



Transport Roads & Maritime Services

ROADS AND MARITIME SERVICES

TRIP GENERATION SURVEYS

BUSINESS PARKS AND INDUSTRIAL ESTATES

DATA REPORT



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1 INTRODUCTION

1.1 Study purpose

The former Roads and Traffic Authority (RTA) published its Guide to Traffic Generating Developments (“Guide”) in the mid-1990s. This document drew on the results of a number of trip generation and parking demand surveys covering a wide range of business and land uses. These surveys had been progressively conducted since 1978. The trip generation and parking requirement data in the Guide is becoming increasingly out-of-date. Several new business types are not adequately represented and there is evidence of ongoing industry rationalisation. There is an increasing awareness that public transport has not been adequately accounted for in previous trip and parking generation survey.

TEF Consulting in association with Gennaoui Consulting (the consultants) were appointed to undertake a detailed trip generation analysis of business parks and industrial estates land use. The study includes surveys of traffic characteristics relating to vehicle and person trips at 11 business parks and industrial estates.

1.2 Data collection

The present report provides the base data collected in the course of the study. It includes detailed information about each survey site and the results of the trip generation surveys. The specific survey site information and associated survey data can be used by practitioners who wish to make direct comparisons with similar sites.

Trip generation for the survey sites was collected using manual classification counts. Vehicle occupancies were also determined by manual counts of persons within the vehicles. Survey stations were located at each access point to the survey site (refer to the maps of the survey sites). All trip generation and vehicle occupancy counts were carried out simultaneously in each survey site.

Furthermore, a questionnaire survey of all establishments within each area was carried out to determine:

- Type of establishments
- Hours of operation
- Gross floor area and on-site parking
- Staff numbers, mode of travel and parking location

Two of the business parks were also a subject of a special survey which included counts of vehicle movements into and out of each individual business in the estate, in order to gain an insight into the extent of multiple trip-making within the estate. The aim of the special survey was to clarify whether there was a disparity between the number of trips entering the precinct compared with the number of trips which might be expected based on a business-by-business estimate. Additional observers were set up within the special survey sites on the same day as the main survey. Each observer carried out manual classification counts of vehicles and pedestrians separately for a number of individual businesses (including vehicles parked outside where their occupants then entered the business grounds or building). All businesses within special survey sites were individually observed.

2 SURVEY SITE DETAILS

The selection of appropriate survey sites was the key process in the project.

It was necessary to ensure that, as far as practicable, the survey sites selected represented the whole of the state. The selected survey sites had to show a geographic spread and range of sizes. To achieve this spread, four survey sites were selected in the Sydney Metropolitan Area and seven survey sites in regional centres.

Table 2.1 Survey sites.

Survey area ID	Name
Site 1	Erskine Park Industrial Estate, Erskine Park
Site 2	Helensburgh Business Park, Helensburgh
Site 3	Wonderland Business Park, Eastern Creek
Site 4	Riverwood Business Park, Riverwood
Site 5	Tuggerah Business Park, Tuggerah
Site 6	Central Business Park, Albion Park Rail
Site 7	Anambah Business Park, Rutherford
Site 8	Freeway Business Park, Beresfield
Site 9	Shearwater Business Park, Taylors Beach
Site 10	Port Stephens Industrial Estate, Taylors Beach
Site 11	Johnson St Business Park, Dubbo

Sites 8 and 9 were selected for a special detailed survey of individual businesses, for the following reasons.

- separate parking areas for each business for easier identification of the trip purpose
- good visibility of multiple parking areas and access points to minimise the number of observers and to improve accuracy (eliminating double-counting)
- absence of through trips

2.1 Survey site locations

Locations of the survey sites are shown in **Figures 2.1** and **2.2**.

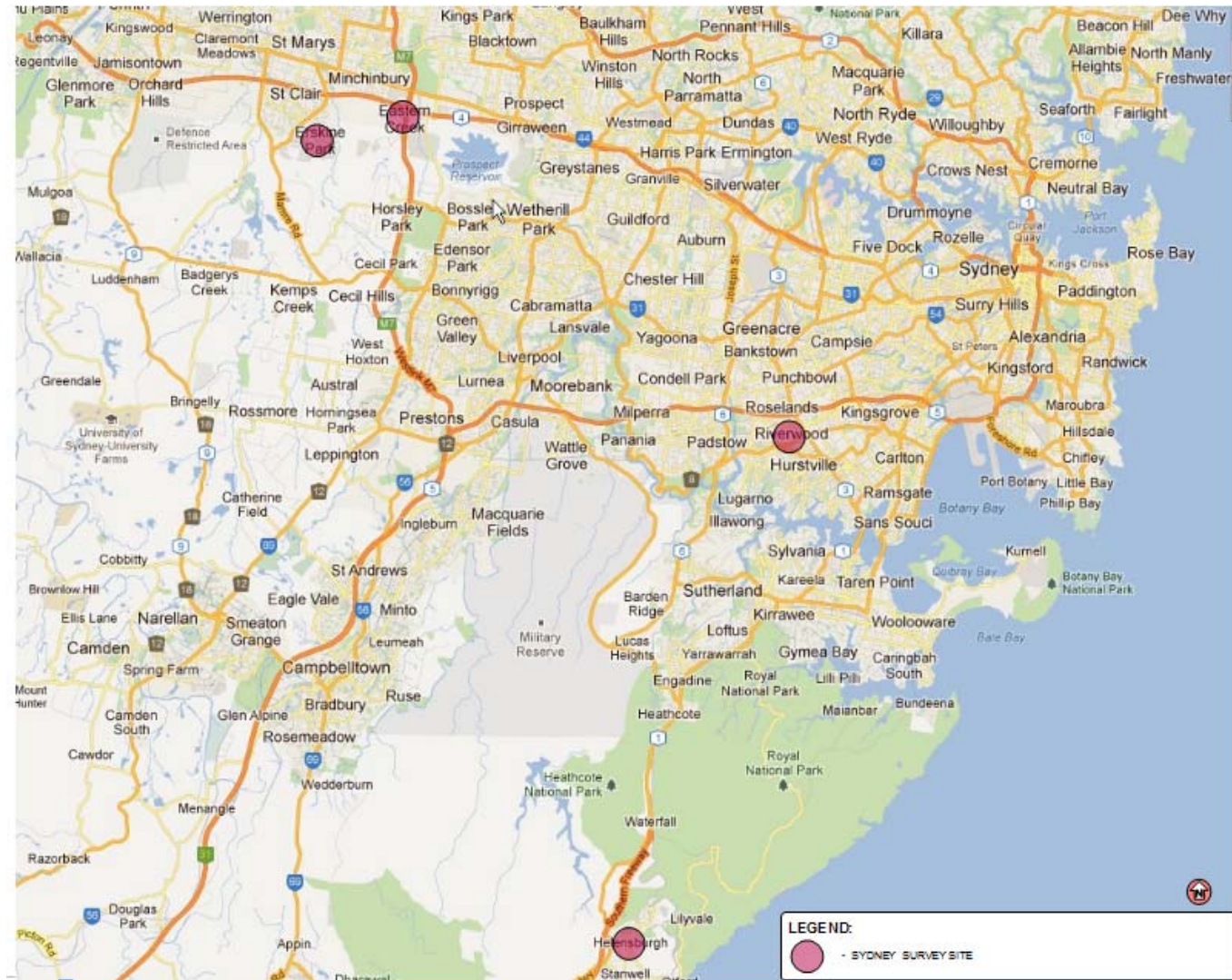


Figure 2.1 Survey site locations – Sydney.

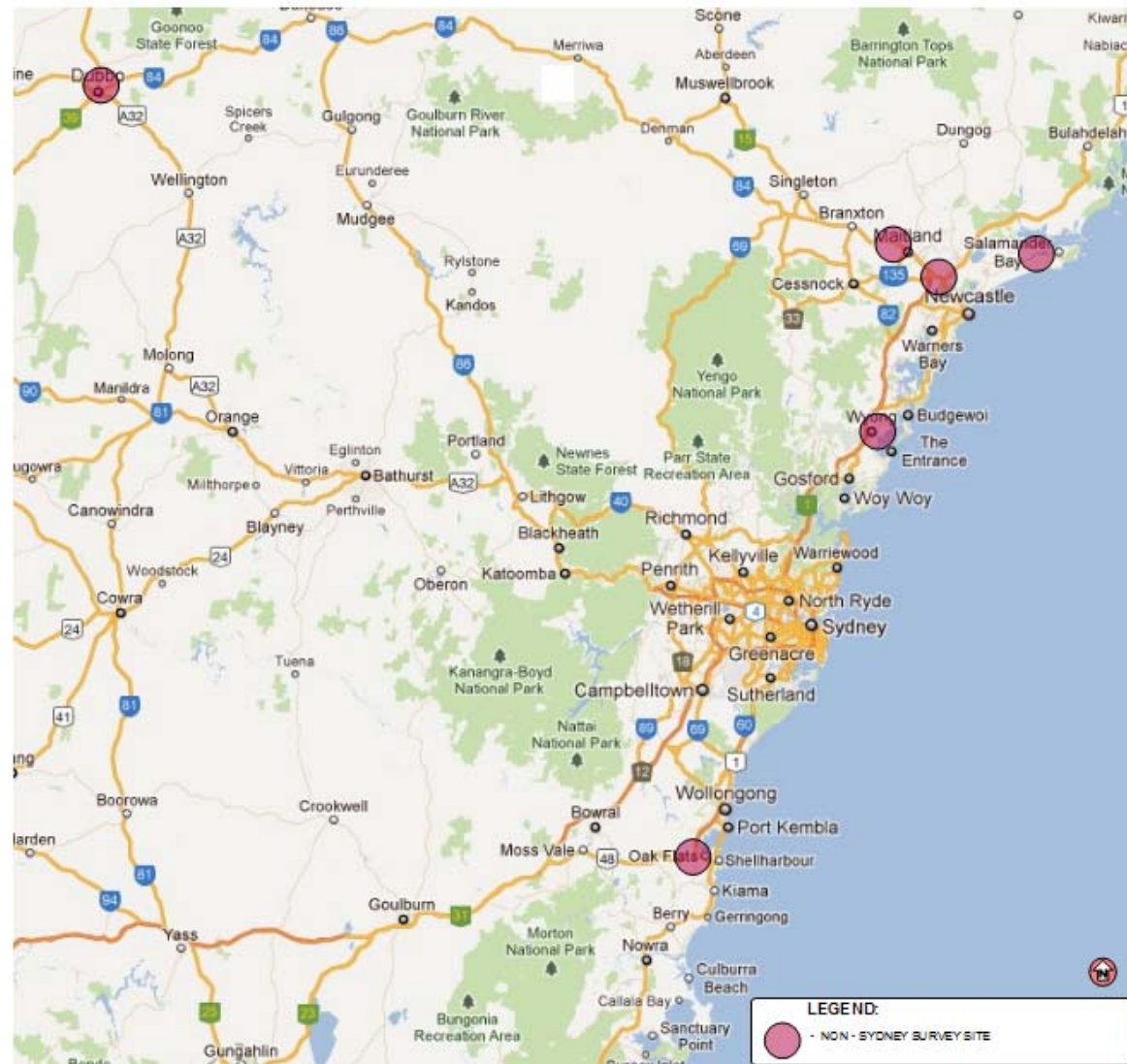


Figure 2.2 Survey site locations – regional centres.

2.2 Details of the selected survey sites

2.2.1 Site 1 Erskine Park Industrial Estate, Erskine Park

Table 2.2 Survey site details – Site 1.

Survey area ID	Site 1	Erskine Park Industrial Estate, Erskine Park
Date of survey		29/03/2012
Adjacent main road		Erskine Park Road
No. of access points		3
Site Area (hectares)		326.9
Gross Floor Area in estate (m ²)		
Occupied		693,605
Floor Space Ratio (%)		21.2
No. of occupied units/lots		36
No. of vacant units/lots		2
No. of ancillary businesses		1
Typical hours of opening		06:00-17:00
Vehicle trips peak hours		
AM Peak		06:15-07:15
PM peak		14:45-15:45
Person trips peak hours		
AM Peak		06:15-07:15
PM peak		14:45-15:45
Council		
Name		Penrith City Council

Surrounding land uses: predominantly low density residential to the north; industrial/business estates to the east and vacant lands to the west and south.

Road environment: Arterial roads: Mamre Road along the western boundary; Erskine Park Road along the northern boundary.

Public transport regime: Limited bus services to the Estate from Penrith CBD(one route).

Erskine Park Industrial Estate

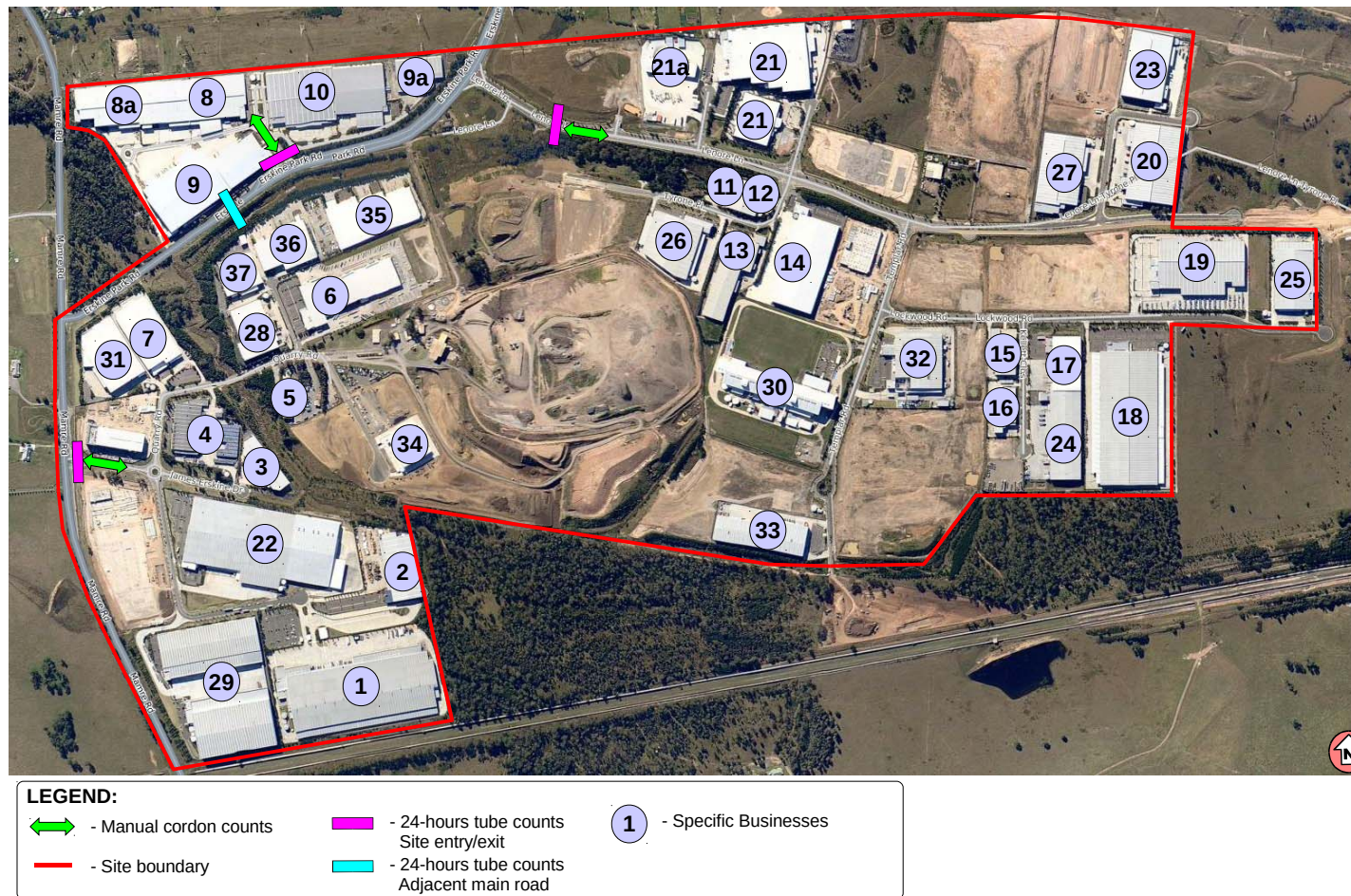


Figure 2.3 Site 1 – Survey site layout and details.

2.2.2 Site 2 Helensburgh Business Park, Helensburgh.

Table 2.3 Survey site details – Site 2.

Survey area ID	Site 2	Helensburgh Business Park, Helensburgh
Date of survey		28/03/2012
Adjacent main road		Cemetery Road
No. of access points		1
Site Area (hectares)		0.6
Gross Floor Area in estate (m ²)		
Occupied		1,605
Floor Space Ratio (%)		27
No. of occupied units/lots		13
No. of vacant units/lots		8
Typical hours of opening		09:00-17:00
Vehicle trips peak hours		
AM Peak		08:45-09:45
PM peak		14:45-15:45
Person trips peak hours		
AM Peak		08:45-09:45
PM peak		14:45-15:45
Council		
Name		Wollongong City Council

Surrounding land uses: low density residential to the north and east; vacant lands to the west and south.

Road environment: Arterial road Princes Hwy within some 1.5 k m to the west.

Public transport regime: Limited bus services from Helensburgh train station (one route).

Helensburgh Business Park

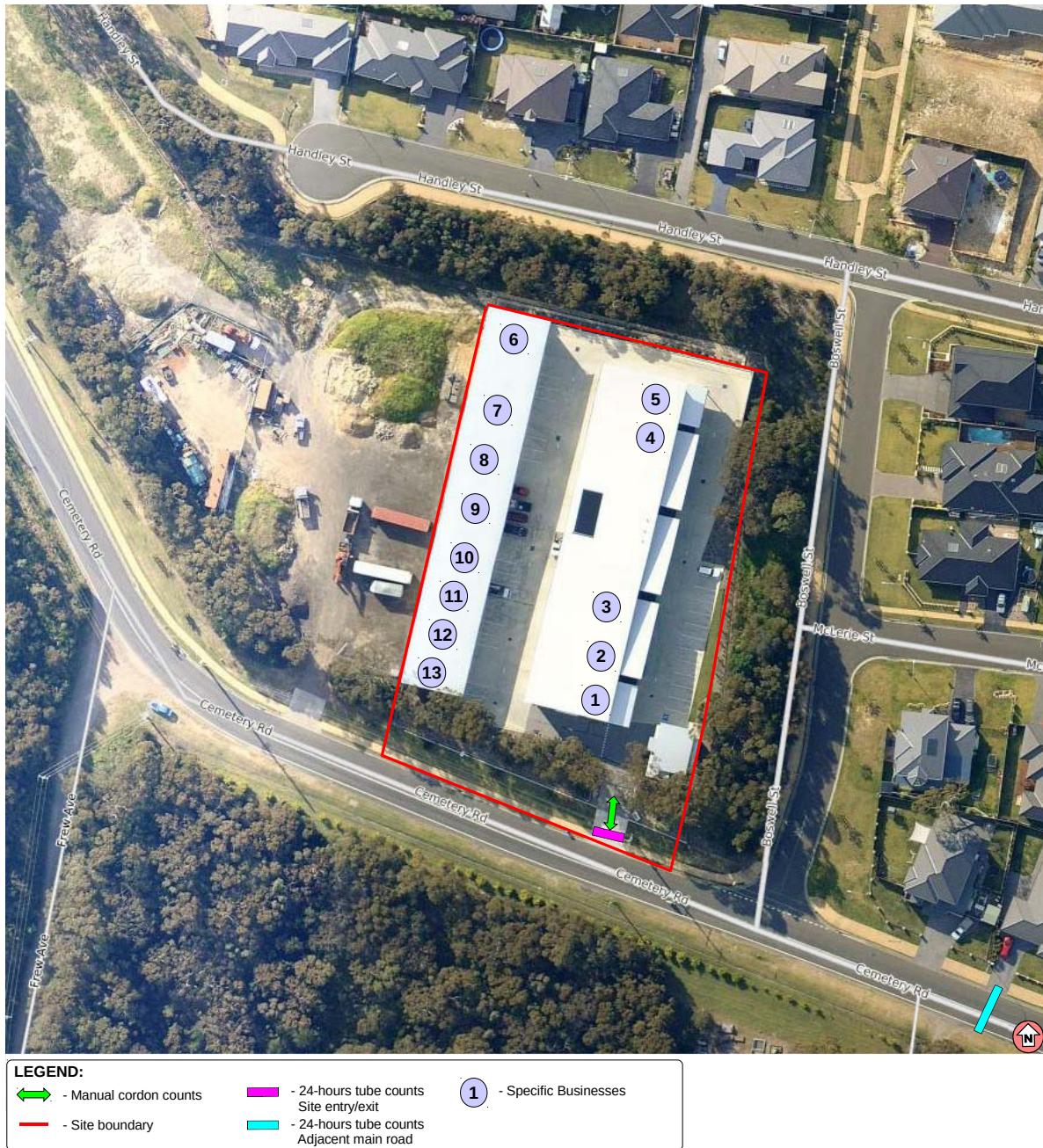


Figure 2.4 Site 2 – Survey site layout and details.

2.2.3 Site 3 Wonderland Business Park, Eastern Creek.

Table 2.4 Survey site details – Site 3.

Survey area ID	Site 3	Wonderland Business Park, Eastern Creek
Date of survey		27/03/2012
Adjacent main road		Wallgrove Road
No. of access points		2
Site Area (hectares)		114.6
Gross Floor Area in estate (m ²)		
Occupied		406,600
Floor Space Ratio (%)		35
No. of occupied units/lots		22
No. of vacant units/lots		4
Typical hours of opening		07:00-19:00
Vehicle trips peak hours		
AM Peak		08:00-09:00
PM peak		14:00-15:00
Person trips peak hours		
AM Peak		08:00-09:00
PM peak		14:00-15:00
Council		
Name		Blacktown City Council

Surrounding land uses: Industrial and warehouse developments; some vacant lands to the south.

Road environment: M7 Motorway along the eastern boundary.

Public transport regime: Limited bus services from Mount Druitt train station (one route).

Wonderland Business Park

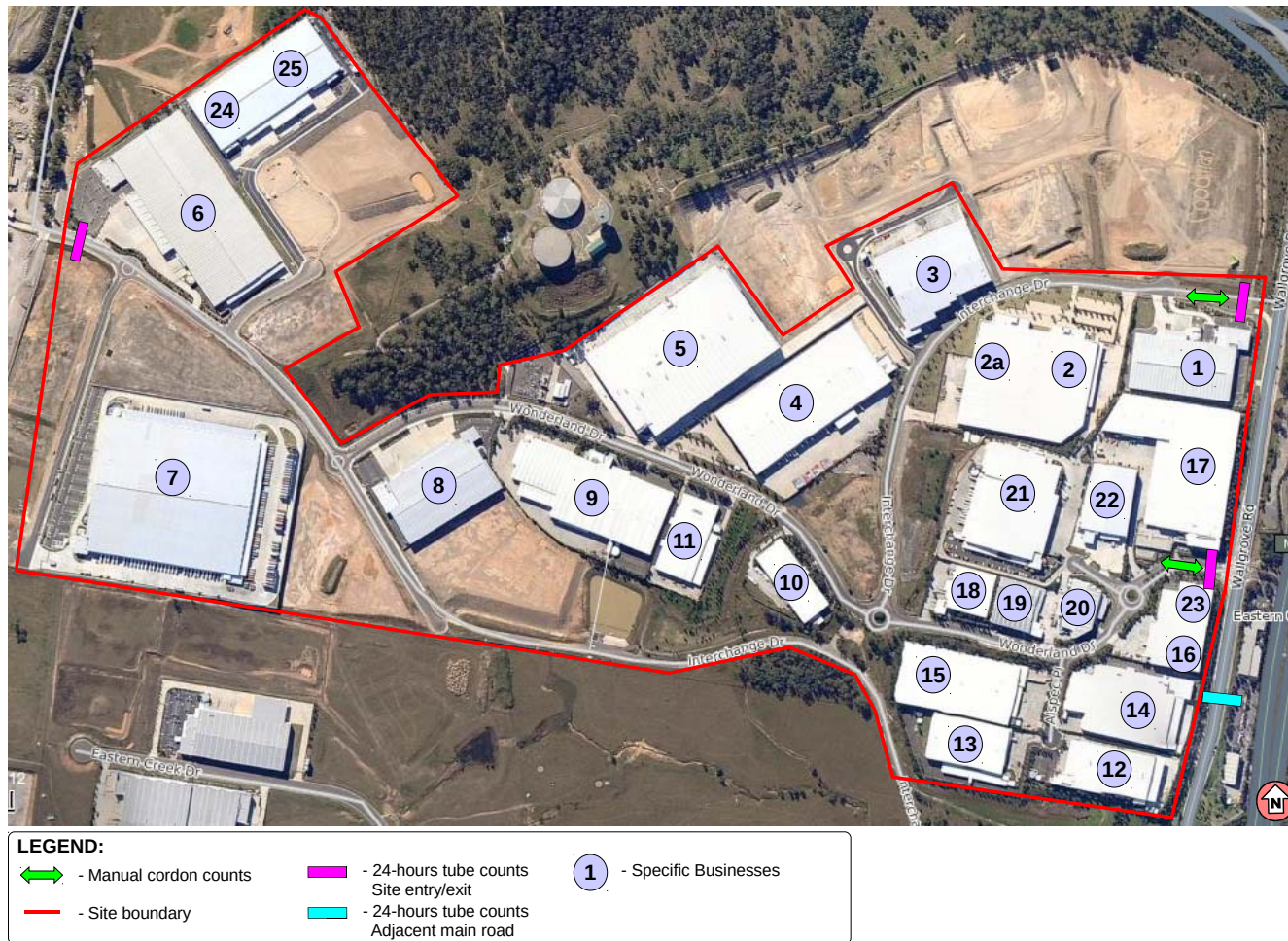


Figure 2.5 Site 3 – Survey site layout and detail.

2.2.4 Site 4 Riverwood Business Park, Riverwood.

Table 2.5 Survey site details – Site 4.

Survey area ID	Site 4	Riverwood Business Park, Riverwood
Date of survey		28/03/2012
Adjacent main road		Belmore Road
No. of access points		1
Site Area (hectares)		4.7
Gross Floor Area in estate (m ²)		
Occupied		29,983
Floor Space Ratio (%)		64
No. of occupied units/lots		16
No. of vacant units/lots		none
No. of ancillary businesses		1
Typical hours of opening		08:00-17:00
Vehicle trips peak hours		
AM Peak		08:15-09:15
PM peak		15:45-16:45
Person trips peak hours		
AM Peak		08:15-09:15
PM peak		15:45-16:45
Council		
Name		City of Canterbury

Surrounding land uses: adjacent industrial and warehouse developments to the north and east, surrounded by low density residential.

Road environment: M5 Motorway within 300 m; Canterbury Road within 900 m.

Public transport regime: Bus services from Hurstville and Riverwood train stations (two routes).

Riverwood Business Park



Figure 2.6 Site 4 – Survey site layout and detail.

2.2.5 Site 5 Tuggerah Business Park, Tuggerah.

Table 2.6 Survey site details – Site 5.

Survey area ID	Site 5	Tuggerah Business Park, Tuggerah
Date of survey		1/05/2012
Adjacent main road		Wyong Rd
No. of access points		2
Site Area (hectares)		52.2
Gross Floor Area in estate (m ²)		
Occupied		136,737
Floor Space Ratio (%)		26
No. of occupied units/lots		184
No. of vacant units/lots		45
No. of ancillary businesses		2
Typical hours of opening		08:00-17:00
Vehicle trips peak hours		
AM Peak		08:00-09:00
PM peak		16:30-17:30
Person trips peak hours		
AM Peak		07:45-08:45
PM peak		16:30-17:30
Council		
Name		Wyong Shire Council

Surrounding land uses: adjacent industrial/warehouse/commercial developments to the south; bulky goods retail and more commercial to the north; low density residential further to the north and south-east.

Road environment: F3 Freeway within 2.5 km; Wyong Road along the eastern boundary.

Public transport regime: Multiple bus services from Wyong train station and to nearby suburbs.

Tuggerah Business Park

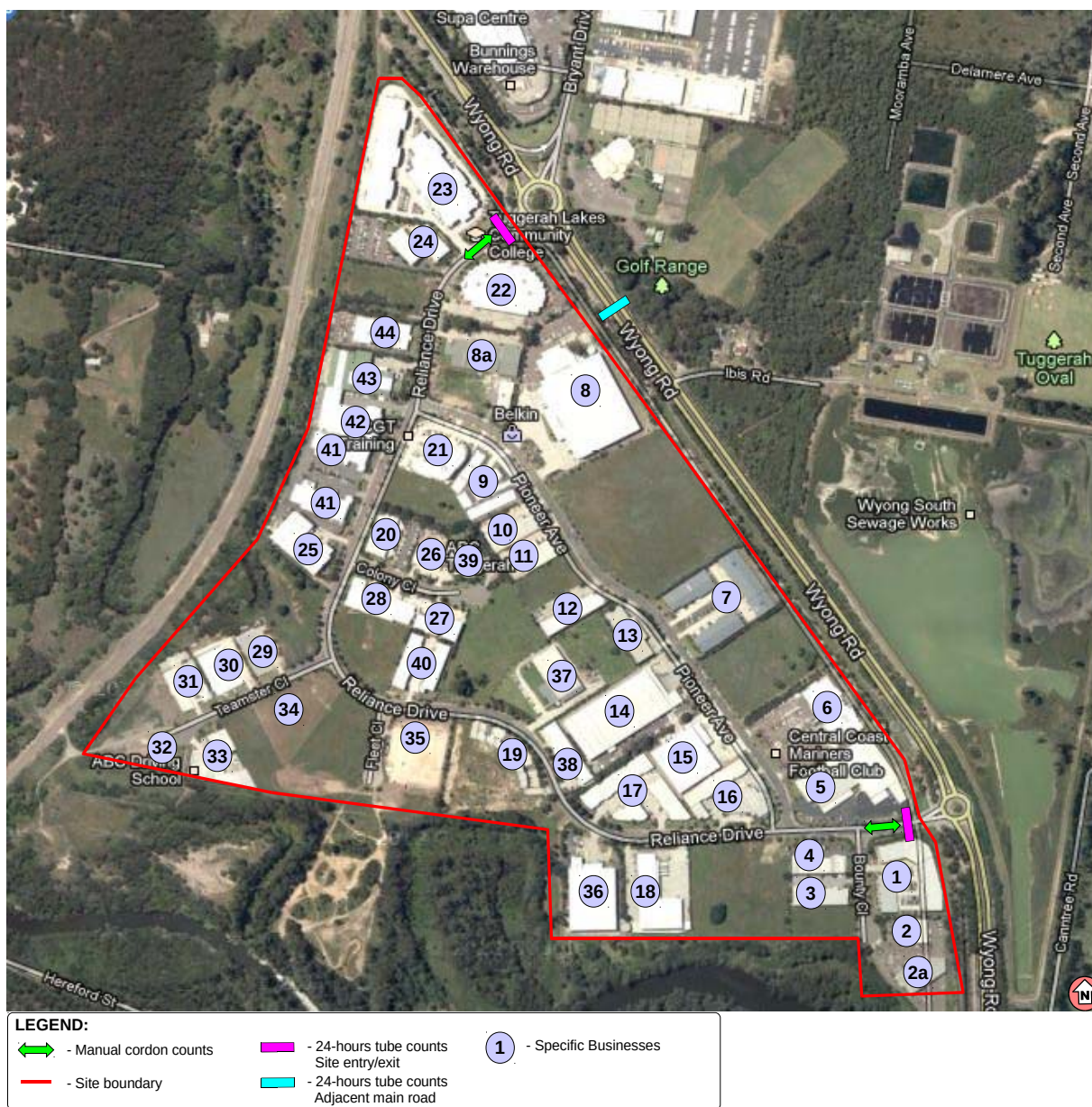


Figure 2.7 Site 5 – Survey site layout and details.

2.2.6 Site 6 Central Business Park, Albion Park Rail.

Table 2.7 Survey site details – Site 6.

Survey area ID	Site 6	Central Business Park, Albion Park Rail
Date of survey		8/05/2012
Adjacent main road		East West Link
No. of access points		2
Site Area (hectares)		14.6
Gross Floor Area in estate (m ²)		
Occupied		42,899
Floor Space Ratio (%)		29
No. of occupied units/lots		66
No. of vacant units/lots		13
No. of ancillary businesses		1
Typical hours of opening		09:00-17:00
Vehicle trips peak hours		
AM Peak		07:45-08:45
PM peak		16:15-17:15
Person trips peak hours		
AM Peak		07:45-08:45
PM peak		16:15-17:15
Council		
Name		Shellharbour City Council

Surrounding land uses: industrial/warehouse/commercial developments to the north-west; low density residential further to the north and north-east; low density residential to the east.

Road environment: Princes Highway along the northern boundary; East West Link along the southern boundary.

Public transport regime: Oaks Flat train station is within 800 m walk; multiple bus services from Albion Park train station and to/from nearby suburbs.

Central Business Park



Figure 2.8 Site 6 – Survey site layout and details.

2.2.7 Site 7 Anambah Business Park, Rutherford.

Table 2.8 Survey site details – Site 7

Survey area ID	Site 7	Anambah Business Park, Rutherford
Date of survey		2/05/2012
Adjacent main road		Anambah Rd
No. of access points		1
Site Area (hectares)		17.5
Gross Floor Area in estate (m ²)		
Occupied		29,766
Floor Space Ratio (%)		17
No. of occupied units/lots		18
No. of vacant units/lots		none
Typical hours of opening		08:00-17:00
Vehicle trips peak hours		
AM Peak		08:45-09:45
PM peak		15:00-16:00
Person trips peak hours		
AM Peak		08:45-09:45
PM peak		15:00-16:00
Council		
Name		Maitland City Council

Surrounding land uses: industrial/warehouse/commercial developments to the south; low density residential to the east and south-east; vacant lands and an airfield to the west and to the north.

Road environment: New England Highway along the southern boundary.

Public transport regime: infrequent bus services along New England Hwy to/from nearby suburbs.

Anambah Business Park, Rutherford

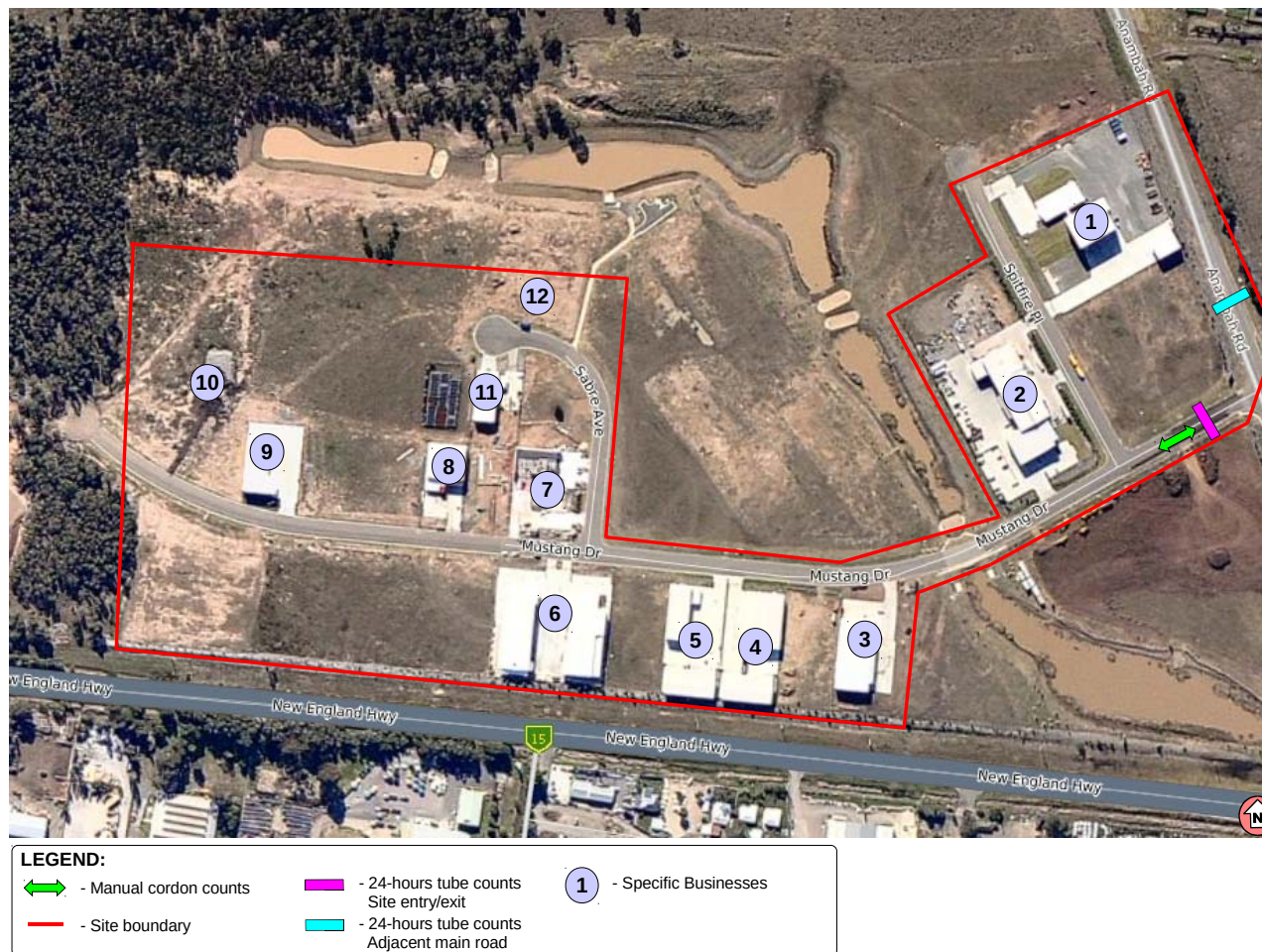


Figure 2.9 Site 7– Survey site layout and details.

2.2.8 Site 8 Freeway Business Park, Beresfield.

Table 2.9 Survey site details – Site 8.

Survey area ID Site 8 Freeway Business Park, Beresfield		
Date of survey		1/05/2012
Adjacent main road		Weakleys Drive
No. of access points		1
Site Area (hectares)		
		32.5
Gross Floor Area in estate (m ²)		
Occupied		89,291
Floor Space Ratio (%)		
		27
No. of occupied units/lots		
		52
No. of vacant units/lots		
		6
No. of ancillary businesses		
		2
Typical hours of opening		
		07:00-17:00
Vehicle trips peak hours		
AM Peak		07:15-08:15
PM peak		15:30-16:30
Person trips peak hours		
AM Peak		07:00-08:00
PM peak		15:15-16:15
Council		
Name		Newcastle City Council

Surrounding land uses: industrial/warehouse/commercial developments to the east; vacant lands in all other directions.

Road environment: located at the roundabout where F3 Freeway ends and continues as Weakleys Drive.

Public transport regime: infrequent bus services along John Renshaw Drive (Newcastle to Cessnock via Kurri Kurri).

Freeway Business Park



Figure 2.10 Site 8– Survey site layout and details.

2.2.9 Site 9 Shearwater Business Park, Taylors Beach.

Table 2.10 Survey site details – Site 9.

Survey area ID	Site 9	Shearwater Business Park, Taylors Beach
Date of survey		2/05/2012
Adjacent main road		Port Stephens Drive
No. of access points		1
Site Area (hectares)		10.3
Gross Floor Area in estate (m ²)		
Occupied		16,022
Floor Space Ratio (%)		16
No. of occupied units/lots		44
No. of vacant units/lots		49
No. of ancillary businesses		1
Typical hours of opening		08:00-17:00
Vehicle trips peak hours		
AM Peak		09:15-10:15
PM peak		16:15-17:15
Person trips peak hours		
AM Peak		09:15-10:15
PM peak		16:15-17:15
Council		
Name		Port Stephens Council

Surrounding land uses: holiday parks and vacant lands to the south; a bulky goods store (Bunnings) and small business/industrial/warehousing park immediately to the north; vacant lands further to the north in all other directions.

Road environment: Port Stephens Drive runs along the eastern boundary, connecting Pacific Highway and holiday townships (Nelson Bay, Salamander Bay).

Public transport regime: infrequent bus services along Port Stephens Drive.

Shearwater Business Park



Figure 2.11 Site 9– Survey site layout and details.

2.2.10 Site 10 Port Stephens Industrial Estate, Taylors Beach.

Table 2.11 Survey site details – Site 10.

Survey area ID	Site 10	Port Stephens Industrial Estate, Taylors Beach
Date of survey		2/05/2012
Adjacent main road		Port Stephens Drive
No. of access points		1
Site Area (hectares)		5.9
Gross Floor Area in estate (m ²)		
Occupied		19,881
Floor Space Ratio (%)		34
No. of occupied units/lots		27
No. of vacant units/lots		15
Typical hours of opening		09:00-17:00
Vehicle trips peak hours		
AM Peak		08:00-09:00
PM peak		15:00-16:00
Person trips peak hours		
AM Peak		08:45-09:45
PM peak		15:00-16:00
Council		
Name		Port Stephens Council

Surrounding land uses: a bulky goods store (Bunnings) and small business/industrial/warehousing park immediately to the south; holiday parks and vacant lands further to the south; vacant lands in all other directions.

Road environment: Port Stephens Drive runs along the eastern boundary, connecting Pacific Highway and holiday townships (Nelson Bay, Salamander Bay).

Public transport regime: infrequent bus services along Port Stephens Drive.

Port Stephens Industrial Estate



Figure 2.12 Site 10– Survey site layout and detail.

2.2.11 Site 11 Johnson St Business Park, Dubbo.

Table 2.12 Survey site details – Site 11.

Survey area ID	Site 11	Johnson St Business Park, Dubbo
Date of survey		10/05/2012
Adjacent main road		Fitzroy Street
No. of access points		1
Site Area (hectares)		6.3
Gross Floor Area in estate (m ²)		
Occupied		14,419
Floor Space Ratio (%)		23
No. of occupied units/lots		14
No. of vacant units/lots		0
Typical hours of opening		08:00-17:00
Vehicle trips peak hours		
AM Peak		08:00-09:00
PM peak		15:00-16:00
Person trips peak hours		
AM Peak		08:00-09:00
PM peak		16:15-17:15
Council		
Name		Dubbo City Council

Surrounding land uses: business/industrial/warehousing to the south; a mix of the same land uses and vacant lands in all other directions.

Road environment: Newell Highway is within 700 m; Fitzroy St runs parallel to Newell Highway along the eastern site boundary.

Public transport regime: no bus or train services within 800 m from the site.

Johnson St Business Park, Dubbo

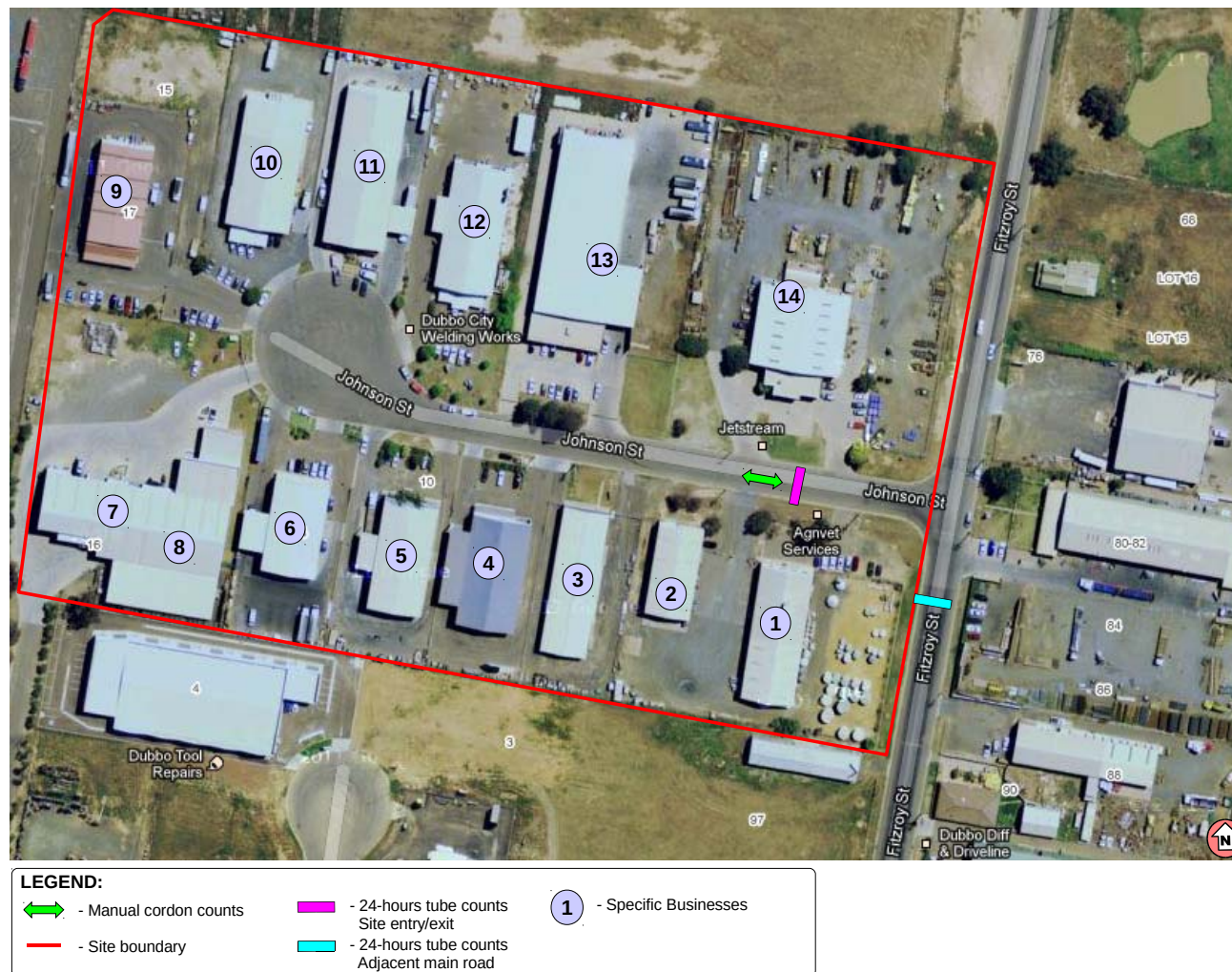


Figure 2.13 Site 11– Survey site layout and detail.

3 SURVEY RESULTS

Table 3.13 Survey results summary

	Sydney areas				Non-Sydney areas						
Survey area ID	Site 1 Erskine Park Industrial Estate, Erskine	Site 2 Helensburgh Business Park, Helensburgh	Site 3 Wonderland Business Park, Eastern Creek	Site 4 Riverwood Business Park, Riverwood	Site 5 Tuggerah Business Park, Tuggerah	Site 6 Central Business Park, Albion Park Rail	Site 7 Anambah Business Park, Rutherford	Site 8 Freeway Business Park, Beresfield	Site 9 Shearwater Business Park, Taylors Beach	Site 10 Port Stephens Industrial Estate, Taylors	Site 11 Johnson Street Business Park, Dubbo
Date of survey	29/03/2012	28/03/2012	27/03/2012	28/03/2012	1/05/2012	8/05/2012	2/05/2012	1/05/2012	2/05/2012	2/05/2012	10/05/2012
Day of survey	Thursday	Wednesday	Tuesday	Wednesday	Tuesday	Tuesday	Wednesday	Tuesday	Wednesday	Wednesday	Thursday
Duration of survey	06:00-19:00	07:00-19:00	07:00-19:00	07:00-19:00	07:00-19:00	07:00-19:00	06:00-19:00	07:00-19:00	06:00-19:00	06:00-19:00	06:00-19:00
Surrounding area characteristics:											
Surrounding landuse (eg residential, commercial, open space, etc)	Commercial	Residential	Residential	Residential	Commercial	Residential	Open space	Commercial	Open space	Open space	Residential
Indicative Public Transport Accessibility Score	2	2	4	8	48	10	0	0.5	0.5	0.5	0
Principal adjacent road- AM peak period (weekday)	8:00 to 9:00 am	8:30 to 9:30 am	7:30 to 8:30 am	8:15 to 9:15 am	8:00 to 9:00 am	8:00 to 9:00 am	8:00 to 9:00 am	7:00 to 8:00 am	8:00 to 9:00 am	8:00 to 9:00 am	8:00 to 9:00 am
Principal adjacent road- PM peak period (weekday)	4:30 to 5:30pm	4:30 to 5:30pm	4:15 to 5:15pm	5:00 to 6:00pm	3:00 to 4:00pm	4:00 to 5:00pm	4:00 to 5:00pm	5:00 to 6:00pm	4:00 to 5:00pm	4:00 to 5:00pm	3:00 to 4:00pm
Principal adjacent road – daily peak period (weekend)	1:00 to 2:00 pm	11:00 am to 12:00	12:15 to 1:15 pm	1:15 to 2:15 pm	11:00 am to 12:00	11:00 am to 12:00	2:00 to 3:00 pm	12:00 to 1:00 pm	11:00 am to 12:00	11:00 am to 12:00 pm	10:0 to 11:00 am
Estate characteristics:											
Year opened	2003	2011	2007	2004	2006	2000-2005	2008-2010	2005	2003-2005	2001-2005	Late 1980s
Total site area (hectares)	326.9	0.6	114.6	4.7	52.2	14.6	17.5	32.5	10.3	5.9	6.3
No. of units/lots (including vacant units/lots)	38	21	26	16	229	79	18	58	93	42	14
No. of occupied units/lots	36	13	22	16	184	66	18	52	44	27	14
Predominant business types within estate:											
no. of factories	5	0	0	0	6	0	1	5	0	0	1
no. of factories/warehouses	2	0	0	0	2	0	0	2	0	0	0
no. of warehouses	27	0	20	15	41	13	5	23	5	3	11
no. of offices	1	9	0	1	93	4	3	7	7	1	1
no. of retailers	0	0	0	0	16	25	1	2	12	6	0
no. of workshops	1	0	0	0	0	9	3	7	6	1	0
no. of manufacturers	0	3	2	0	2	0	0	2	2	10	0
no. of others commercial businesses	0	1	0	0	23	15	5	2	12	5	1
Gross Floor Area in estate m ² (occupied)	693,605	1,605	406,600	29,983	136,737	42,899	29,766	89,291	16,022	19,881	14,419
No. of employees	incomplete data from businesses				231	incomplete data from businesses		182	incomplete data from businesses		
Person Trips:											
Peak 1-hour person-trips	1284	29	927	173	1458	519	204	575	285	97	149
Time of peak 1-hour person-trips	14:45-15:45	14:45-15:45	14:00-15:00	08:15-09:15	16:30-17:30	16:15-17:15	15:00-16:00	07:00-08:00	16:15-17:15	15:00-16:00	16:15-17:15
Peak person-trips per business	35.9	2.2	42.1	10.8	8	7.9	11.3	11.1	6.5	3.6	10.6
Peak person-trips per hectare	4	49.4	8.1	37.0	28	35.6	11.6	17.7	27.7	16.5	23.6
Peak person-trips per 100 m ² of GFA	0.187	1.807	0.228	0.577	1.066	1.210	0.685	0.644	1.779	0.488	1.033
Peak person-trips per employee	incomplete data from businesses				0.749	incomplete data from businesses		1.121	incomplete data from businesses		
Total daily person-trips	14056	168	9929	1410	12066	4205	2064	6399	2389	975	1316
Total daily person-trips per business	390.4	13.0	451.3	89	65.6	63.7	114.6	123.1	54.3	36.1	94.0
Total daily person-trips per hectare	43.0	287.0	86.6	301.5	231.4	288.7	117.6	197.1	232.0	165.5	208.8
Total daily person-trips per 100 m ² of GFA	2.026	10.492	2.442	4.703	8.824	9.802	6.933	7.167	14.910	4.904	9.129
Total daily person-trips per employee	incomplete data from businesses				6.105	incomplete data from businesses		11.339	incomplete data from businesses		
Person-trips during adjacent road AM peak	976	24	743	173	1408	270	123	575	176	93	120
Person-trips during adjacent road PM peak	1073	7	822	94	1060	478	160	396	258	54	136
Vehicle Trips:											
Peak 1-hour vehicle-trips	1128	24	820	129	1256	418	173	504	209	78	116
Time of peak 1-hour vehicle-trips	14:45-15:45	14:45-15:45	08:00-09:00	08:15-09:15	08:00-09:00	16:15-17:15	15:00-16:00	07:15-08:15	16:15-17:15	15:00-16:00	15:00-16:00
Peak vehicle-trips per business	31	1.8	37.3	8.1	6.8	6.3	9.6	9.7	4.8	2.9	8.3
Peak vehicle-trips per hectare	3.5	40.9	7.2	27.6	24.1	28.7	9.9	15.5	20.3	13.2	18.4
Peak vehicle-trips per 100 m ² of GFA	0.163	1.495	0.202	0.430	0.919	0.974	0.581	0.564	1.304	0.392	0.805
Peak vehicle-trips per employee	incomplete data from businesses				0.558	incomplete data from businesses		0.951	incomplete data from businesses		
Total daily vehicle-trips	13125	168	9384	1116	10383	3351	1793	5876	1921	751	1246
Total daily vehicle-trips per business	364.6	12.9	426.5	69.75	56.4	50.8	99.6	113.0	43.7	27.8	89.0
Total daily vehicle-trips per hectare	40.1	286.3	81.9	238.6	199.1	230.1	102.2	181.0	186.5	127.5	197.7
Total daily vehicle-trips per 100 m ² of GFA	1.892	10.467	2.308	3.722	7.593	7.811	6.024	6.581	11.990	3.777	8.642
Total daily vehicle-trips per employee	incomplete data from businesses				4.83	incomplete data from businesses		9.85	incomplete data from businesses		
Vehicle-trips in adjacent road AM peak (Average)	1165	126	2749	1608	2594	1131	112	1645	670	670	315
Vehicle-trips in adjacent road PM peak (Average)	972	149	2593	1613	2844	1281	150	1789	805	805	341
Vehicle-trips during adjacent road AM peak	929	19	679	129	1256	246	111	495	147	64	108
Vehicle-trips during adjacent road PM peak	965	5	703	69	794	382	127	354	187	42	116
Average vehicle occupancy	1.10	1.10	1.12	1.16	1.17	1.16	1.17	1.17	1.26	1.19	1.15
% of total trips by principal mode:											
% Car (as driver)	62.5%	81.9%	63.2%	68.8%	79.1%	78.5%	70.0%	69.1%	74.3%	71.1%	66.1%
% Car (as passenger)	8.0%	8.3%	8.3%	12.3%	11.2%	13.4%	13.4%	9.6%	19.9%	14.1%	10.9%
% Commercial Vehicles	28.3%	4.2%	25.9%	12.6%	4.9%	6.2%	15.5%	18.3%	4.3%	8.9%	21.8%
% Bus	0.8%	0.0%	2.1%	0.5%	3.2%	0.0%	0.0%	2.2%	0.0%	0.0%	0.2%
% Cycle	0.1%	0.0%	0.3%	0.1%	0.3%	0.6%	0.2%	0.4%	0.8%	1.3%	0.1%
% Motorbike	0.1%	0.0%	0.0%	0.0%	0.3%	0.4%	0.0%	0.3%	0.9%	3.8%	0.2%
% On foot	0.1%	5.6%	0.2%	5.7%	1.1%	0.8%	0.6%	0.0%	0.3%	0.9%	0.4%
% Other	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.4%

3.1.1 Site 1 Erskine Park Industrial Estate, Erskine Park

Table 3.14 Site 1 - Survey Results – 15-minute interval data

DATE 29 March 2012		SITE 1 ERSKINE PARK INDUSTRIAL ESTATE, ERSKINE PARK																														Grand Total	
15 minute Data		Vehicles										Persons																				15 minute Data	
WEATHER	Fine	IN					OUT					IN										OUT										Vehicles	Persons
		TRUCKS					TRUCKS					TRUCKS					IN					TRUCKS					OUT						
TIME		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total				
6:00	to 6:15	54	4	3	0	61	7	11	5	0	23	56	0	4	3	0	0	0	0	63	7	0	11	5	0	0	0	0	23	84	86		
6:15	to 6:30	173	20	12	1	206	23	13	13	1	50	193	1	21	12	0	1	0	0	228	23	1	13	13	0	0	0	0	50	256	278		
6:30	to 6:45	158	14	14	2	188	24	26	10	0	60	174	2	15	14	0	0	1	0	206	26	0	26	10	0	0	0	0	62	248	268		
6:45	to 7:00	218	20	15	0	253	39	19	10	1	69	239	0	21	15	1	0	0	0	276	43	1	20	10	0	0	0	0	74	322	350		
7:00	to 7:15	118	19	9	2	148	40	17	14	1	72	128	12	21	9	1	0	1	0	172	43	5	17	14	0	0	1	0	80	220	252		
7:15	to 7:30	138	19	17	0	174	25	25	12	1	63	164	0	21	17	0	0	0	0	202	33	1	26	12	0	0	0	0	72	237	274		
7:30	to 7:45	117	20	20	2	159	19	19	9	1	48	131	11	21	20	0	0	0	0	183	21	5	19	10	0	0	0	0	55	207	238		
7:45	to 8:00	149	19	13	0	181	32	20	12	1	65	167	0	21	12	0	0	0	0	200	35	1	20	13	0	0	0	0	69	246	269		
8:00	to 8:15	130	8	22	0	160	33	22	15	0	70	137	0	10	22	0	0	0	0	169	35	0	22	15	0	0	0	0	72	230	241		
8:15	to 8:30	125	22	16	0	163	31	21	7	0	59	131	0	22	16	0	0	0	0	169	31	0	23	7	0	0	0	0	61	222	230		
8:30	to 8:45	143	14	17	1	175	25	22	21	0	68	151	0	14	16	0	1	0	0	182	27	0	24	21	0	0	0	0	72	243	254		
8:45	to 9:00	117	28	18	0	163	30	21	20	0	71	127	0	29	18	0	1	0	0	175	33	0	22	21	0	0	0	0	76	234	251		
9:00	to 9:15	78	21	14	0	113	46	16	11	0	73	86	1	21	14	0	1	0	0	123	55	0	17	14	0	0	0	0	86	186	209		
9:15	to 9:30	89	21	21	1	132	34	20	19	1	74	97	20	22	21	0	1	0	0	161	38	1	22	19	0	0	0	0	80	206	241		
9:30	to 9:45	77	21	22	0	120	43	26	22	0	91	89	0	22	22	0	0	0	0	133	46	0	27	25	0	0	0	0	98	211	231		
9:45	to 10:00	70	26	12	0	108	57	21	14	0	92	74	0	28	12	0	0	0	0	114	61	0	21	17	0	0	0	0	99	200	213		
10:00	to 10:15	50	31	18	0	99	41	16	18	0	75	54	0	38	18	0	0	0	0	110	44	0	16	18	0	0	0	0	78	174	188		
10:15	to 10:30	56	12	23	0	91	46	32	16	0	94	66	0	12	23	0	0	1	0	102	51	0	33	16	0	0	0	0	100	185	202		
10:30	to 10:45	51	21	26	0	98	50	20	20	0	90	62	0	21	25	0	0	0	1	109	59	0	21	20	0	0	0	0	100	188	209		
10:45	to 11:00	53	27	15	0	95	38	20	21	0	79	62	0	27	15	0	0	0	0	104	43	0	22	21	0	0	0	0	86	174	190		
11:00	to 11:15	45	29	16	0	90	41	18	20	0	79	48	0	34	15	0	0	0	0	97	45	0	19	21	0	0	0	0	85	169	182		
11:15	to 11:30	33	27	18	0	78	38	34	14	0	86	49	0	30	17	0	0	0	0	96	42	0	35	15	0	0	0	0	92	164	188		
11:30	to 11:45	34	24	15	0	73	44	22	18	0	84	42	0	25	15	0	0	0	0	82	49	0	23	18	0	0	0	0	90	157	172		
11:45	to 12:00	43	21	16	0	80	50	25	20	0	95	53	0	23	16	1	0	0	0	93	58	0	25	20	1	0	0	0	104	175	197		
12:00	to 12:15	46	21	20	0	87	84	25	14	0	123	52	0	24	20	0	0	0	0	96	100	0	25	14	0	0	0	0	139	210	235		
12:15	to 12:30	56	27	24	0	107	60	23	19	0	102	65	0	28	24	0	1	0	0	118	75	0	23	19	0	0	0	1	118	209	236		
12:30	to 12:45	47	26	12	0	85	74	23	9	0	106	59	0	26	11	0	0	0	0	96	87	0	24	9	1	0	0	0	121	191	217		
12:45	to 13:00	74	31	20	0	125	60	25	27	0	112	89	0	34	20	0	0	0	0	143	71	0	27	27	0	0	0	0	125	237	268		
13:00	to 13:15	78	23	9	0	110	71	25	15	0	111	97	0	24	9	0	0	0	0	130	79	0	27	15	0	0	0	0	121	221	251		
13:15	to 13:30	83	12	18	0	113	58	27	20	0	105	96	0	14	17	0	1	0	0	128	65	0	27	20	1	0	0	0	113	218	241		
13:30	to 13:45	84	14	10	0	108	161	23	10	0	194	98	0	15	9	1	0	0	0	123	172	0	26	10	2	1	0	0	211	302	334		
13:45	to 14:00	68	25	11	0	104	84	11	21	0	116	78	0	26	11	0	0	0	0	115	97	0	15	25	0	0	0	0	137	220	252		
14:00	to 14:15	53	24	15	0	92	164	14	17	0	195	61	0	25	15	0	0	0	0	101	179	0	16	17	0	0	0	0	212	267	313		
14:15	to 14:30	48	17	12	0	77	82	17	11	0	110	50	0	18	12	0	0	0	0	80	97	0	21	11	0	0	0	0	129	187	209		
14:30	to 14:45	51	33	10	0	94	201	17	18	0	236	58	0	33	9	0	1	0	0	101	219	0	17	18	0	1	0	0	255	330	356		
14:45	to 15:00	57	17	12	0	86	87	16	12	0	115	66	0	18	12	0	0	0	0	96	97	0	18	12	0	0	0	0	127	201	223		
15:00	to 15:15	47	25	13	0	85	187	19	12	1	219	51	0	25	12	0	0	0	0	88	220	3	21	12	1	0	2	0	259	304	347		
15:15	to 15:30	35	23	14	1	73	187	17	14	0	218	39	1	24	13	0	0	0	0	77	242	0	17	14	0	0	1	0	274	291	351		
15:30	to 15:45	41	30	13	1	85	220	15	11	1	247	48	1	32	13	0	0	0	0	94	252	1	15	11	0	0	0	0	279	332	373		
15:45	to 16:00	24	12	15	1	52	93	12	12	0	117	26	1	12	15	0	0	0	0	54	106	0	12	12	1	0	0	0	131	169	185		
16:00	to 16:15	25	15	11	1	52	224	16	14	0	254	28	1	15	11	0	0	0	0	55	255	0	16	14	1	0	2	0	288	306	343		
16:15	to 16:30	13	8	10	1	32	92	17	15	2	126	13	1	9	10	0	0	0	0	33	103	3	18	15	0	0	0	0	139	158	172		
16:30	to 16:45	20	13	10	0	43	142	17	15	0	174	22	0	13	10	0	0	0	0	45	161	0	18	15	0	0	1	0	195	217	240		
16:45	to 17:00	19	9	7	2	37	77	10	5	2	94	21	3	9	7	0	0	0	0	40	83	5	10	5	0	1	0	0	104	131	144		
17:00	to 17:15	16	8	3	0	27	194	14	6	0	214	20	0	8	3	0	0	0	0	31	211	0	15	6	0	0	0	0	232	241	263		
17:15	to 17:30	18	7	2	2	29	104	9	8	2	123	23	2	7	2	0	0	0	0	34	113	2	10	9	0	1	0	0	135	152	169		
17:30	to 17:45	18	4	7	0	29	116	5	2	0	123	22	0	4	7	0	2	0	0	35	128	0	5	2	0	1	0	0	136	152	171		
17:45	to 18:00	22	4	5	0	31	71	4	7	0	82	23	0	5	5	0	0	0	0	33	75	0	4	7	0	0	0	0	86				

Table 3.15 Site 1 - Survey Results – Hourly data - rolling at 15 minute intervals

DATE 29 March 2011		SITE 1 ERSKINE PARK INDUSTRIAL ESTATE, ERSKINE PARK																												Grand Total	
1-hour Data		Vehicles										Persons																		1-hour Data	
WEATHER Fine	TIME	IN				OUT				IN														OUT							
		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total		
6:00 to 7:00	603	58	44	3	708	93	69	38	2	202	662	3	61	44	1	1	1	0	773	99	2	70	38	0	0	0	0	209	Vehicles	Persons	
6:15 to 7:15	667	73	50	5	795	126	75	47	3	251	734	15	78	50	2	1	2	0	882	135	7	76	47	0	0	1	0	266	1046	1148	
6:30 to 7:30	632	72	55	4	763	128	87	46	3	264	705	14	78	55	2	0	2	0	856	145	7	89	46	0	0	1	0	288	1027	1144	
6:45 to 7:45	591	78	61	4	734	123	80	45	4	252	662	23	84	61	2	0	1	0	833	140	12	82	46	0	0	1	0	281	986	1114	
7:00 to 8:00	522	77	59	4	662	116	81	47	4	248	590	23	84	58	1	0	1	0	757	132	12	82	49	0	0	1	0	276	910	1033	
7:15 to 8:15	534	66	72	2	674	109	86	48	3	246	599	11	73	71	0	0	0	0	754	124	7	87	50	0	0	0	0	268	920	1022	
7:30 to 8:30	521	69	71	2	663	115	82	43	2	242	566	11	74	70	0	0	0	0	721	122	6	84	45	0	0	0	0	257	905	978	
7:45 to 8:45	547	63	68	1	679	121	85	55	1	262	586	0	67	66	0	1	0	0	720	128	1	89	56	0	0	0	0	274	941	994	
8:00 to 9:00	515	72	73	1	661	119	86	63	0	268	546	0	75	72	0	2	0	0	695	126	0	91	64	0	0	0	0	281	929	976	
8:15 to 9:15	463	85	65	1	614	132	80	59	0	271	495	1	86	64	0	3	0	0	649	146	0	86	63	0	0	0	0	295	885	944	
8:30 to 9:30	427	84	70	2	583	135	79	71	1	286	461	21	86	69	0	4	0	0	641	153	1	85	75	0	0	0	0	314	869	955	
8:45 to 9:45	361	91	75	1	528	153	83	72	1	309	399	21	94	75	0	3	0	0	592	172	1	88	79	0	0	0	0	340	837	932	
9:00 to 10:00	314	89	69	1	473	180	83	66	1	330	346	21	93	69	0	2	0	0	531	200	1	87	75	0	0	0	0	363	803	894	
9:15 to 10:15	286	99	73	1	459	175	83	73	1	332	314	20	110	73	0	1	0	0	518	189	1	86	79	0	0	0	0	355	791	873	
9:30 to 10:30	253	90	75	0	418	187	95	70	0	352	283	0	100	75	0	0	1	0	459	202	0	97	76	0	0	0	0	375	770	834	
9:45 to 10:45	227	90	79	0	396	194	89	68	0	351	256	0	99	78	0	0	1	1	435	215	0	91	71	0	0	0	0	377	747	812	
10:00 to 11:00	210	91	82	0	383	175	88	75	0	338	244	0	98	81	0	0	1	1	425	197	0	92	75	0	0	0	0	364	721	789	
10:15 to 11:15	205	89	80	0	374	175	90	77	0	342	238	0	94	78	0	0	1	1	412	198	0	95	78	0	0	0	0	371	716	783	
10:30 to 11:30	182	104	75	0	361	167	92	75	0	334	221	0	112	72	0	0	0	1	406	189	0	97	77	0	0	0	0	363	695	769	
10:45 to 11:45	165	107	64	0	336	161	94	73	0	328	201	0	116	62	0	0	0	0	379	179	0	99	75	0	0	0	0	353	664	732	
11:00 to 12:00	155	101	65	0	321	173	99	72	0	344	192	0	112	63	1	0	0	0	368	194	0	102	74	1	0	0	0	371	665	739	
11:15 to 12:15	156	93	69	0	318	216	106	66	0	388	196	0	102	68	1	0	0	0	367	249	0	108	67	1	0	0	0	425	706	792	
11:30 to 12:30	179	93	75	0	347	238	95	71	0	404	212	0	100	75	1	1	0	0	389	282	0	96	71	1	0	0	1	451	751	840	
11:45 to 12:45	192	95	72	0	359	268	96	62	0	426	229	0	101	71	1	1	0	0	403	320	0	97	62	2	0	0	1	482	785	885	
12:00 to 13:00	223	105	76	0	404	278	96	69	0	443	265	0	112	75	0	1	0	0	453	333	0	99	69	1	0	0	1	503	847	956	
12:15 to 13:15	255	107	65	0	427	265	96	70	0	431	310	0	112	64	0	1	0	0	487	312	0	101	70	1	0	0	1	485	858	972	
12:30 to 13:30	282	92	59	0	433	263	100	71	0	434	341	0	98	57	0	1	0	0	497	302	0	105	71	2	0	0	0	480	867	977	
12:45 to 13:45	319	80	57	0	456	350	100	72	0	522	380	0	87	55	1	1	0	0	524	387	0	107	72	3	1	0	0	570	978	1094	
13:00 to 14:00	313	74	48	0	435	374	86	66	0	526	369	0	79	46	1	1	0	0	496	413	0	95	70	3	1	0	0	582	961	1078	
13:15 to 14:15	288	75	54	0	417	467	75	68	0	610	333	0	80	52	1	1	0	0	467	513	0	84	72	3	1	0	0	673	1027	1140	
13:30 to 14:30	253	80	48	0	381	491	65	59	0	615	287	0	84	47	1	0	0	0	419	545	0	78	63	2	1	0	0	689	996	1108	
13:45 to 14:45	220	99	48	0	367	531	59	67	0	657	247	0	102	47	0	1	0	0	397	592	0	69	71	0	1	0	0	733	1024	1130	
14:00 to 15:00	209	91	49	0	349	534	64	58	0	656	235	0	94	48	0	1	0	0	378	592	0	72	58	0	1	0	0	723	1005	1101	
14:15 to 15:15	203	92	47	0	342	557	69	53	1	680	225	0	94	45	0	1	0	0	365	633	3	77	53	1	1	2	0	770	1022	1135	
14:30 to 15:30	190	98	49	1	338	662	69	56	1	788	214	1	100	46	0	1	0	0	362	778	3	73	56	1	1	3	0	915	1126	1277	
14:45 to 15:45	180	95	52	2	329	681	67	49	2	799	204	2	99	50	0	0	0	0	355	811	4	71	49	1	0	3	0	939	1128	1294	
15:00 to 16:00	147	90	55	3	295	687	63	49	2	801	164	3	93	53	0	0	0	0	313	820	4	65	49	2	0	3	0	943	1096	1256	
15:15 to 16:15	125	80	53	4	262	724	60	51	1	836	141	4	83	52	0	0	0	0	280	855	1	60	51	2	0	3	0	972	1098	1252	
15:30 to 16:30	103	65	49	4	221	629	60	52	3	744	115	4	68	49	0	0	0	0	236	716	4	61	52	2	0	2	0	837	965	1073	
15:45 to 16:45	82	48	46	3	179	551	62	56	2	671	89	3	49	46	0	0	0	0	187	625	3	64	56	2	0	3	0	753	850	940	
16:00 to 17:00	77	45	38	4	164	535	60	49	4	648	84	5	46	38	0	0	0	0	173	602	8	62	49	1	1	3	0	726	812	899	
16:15 to 17:15	68	38	30	3	139	505	58	41	4	608	76	4	39	30	0	0	0	0	149	558	8	61	41	0	1	1	0	670	747	819	
16:30 to 17:30	73	37	22	4	136	517	50	34	4	605	86	5	37	22	0	0	0	0	150	568	7	53	35	0	2	1	0	666	741	816	
16:45 to 17:45	71	28	19	4	122	491	38	21	4	554	86	5	28	19	0	2	0	0	140	535	7	40	22	0	3	0	0	607	676	747	
17:00 to 18:00	74	23	17	2	116	485	32	23	2	542	88	2	24	17	0	2	0	0	133	527	2	34	24	0	2	0	0	589	658	722	
17:15 to 18:15	71	19	20	2	112	372	20	23	3	418	83	2	20	19	0	2	0	0	126	415	12	21	25	0	3	0	0	476	530	602	
17:30 to 18:30	62	14	22	0	98	309	14	18	1	342	70	0	15	21	0	2	0	0	108	349	10	14	19	0	2	0	0	394	440	502	
17:45 to 18:45	52	10	18	0	80	243	11	19	1	274	56	0	11	17</																	

Table 3.16 Site 1 - Peak hours

Peak hour	Vehicles										Persons																	
Vehicles	IN					OUT					IN										OUT							
	TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS							
AM	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
6:15 to 7:15	667	73	50	5	795	126	75	47	3	251	734	15	78	50	2	1	2	0	882	135	7	76	47	0	0	1	0	266
PM																												
14:45 to 15:45	180	95	52	2	329	681	67	49	2	799	204	2	99	50	0	0	0	0	355	811	4	71	49	1	0	3	0	939

Peak hour	Vehicles										Persons																	
Persons	IN					OUT					IN										OUT							
	TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS							
AM	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
6:15 to 7:15	667	73	50	5	795	126	75	47	3	251	734	15	78	50	2	1	2	0	882	135	7	76	47	0	0	1	0	266
PM																												
14:45 to 15:45	180	95	52	2	329	681	67	49	2	799	204	2	99	50	0	0	0	0	355	811	4	71	49	1	0	3	0	939

Table 3.17 Site 1 - Hourly data - consecutive

DATE 29 March 2012		SITE 1 ERSKINE PARK INDUSTRIAL ESTATE, ERSKINE PARK																												Grand Total	
1-hour Data		Vehicles										Persons																		1-hour Data	
WEATHER Fine	TIME	IN					OUT					IN										OUT									
		TRUCKS					TRUCKS					TRUCKS										TRUCKS									
		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons
	6:00 to 7:00	603	58	44	3	708	93	69	38	2	202	662	3	61	44	1	1	1	0	773	99	2	70	38	0	0	0	0	209	910	982
	7:00 to 8:00	522	77	59	4	662	116	81	47	4	248	590	23	84	58	1	0	1	0	757	132	12	82	49	0	0	1	0	276	910	1033
	8:00 to 9:00	515	72	73	1	661	119	86	63	0	268	546	0	75	72	0	2	0	0	695	126	0	91	64	0	0	0	0	281	929	976
	9:00 to 10:00	314	89	69	1	473	180	83	66	1	330	346	21	93	69	0	2	0	0	531	200	1	87	75	0	0	0	0	363	803	894
	10:00 to 11:00	210	91	82	0	383	175	88	75	0	338	244	0	98	81	0	0	1	1	425	197	0	92	75	0	0	0	0	364	721	789
	11:00 to 12:00	155	101	65	0	321	173	99	72	0	344	192	0	112	63	1	0	0	0	368	194	0	102	74	1	0	0	0	371	665	739
	12:00 to 13:00	223	105	76	0	404	278	96	69	0	443	265	0	112	75	0	1	0	0	453	333	0	99	69	1	0	0	1	503	847	956
	13:00 to 14:00	313	74	48	0	435	374	86	66	0	526	369	0	79	46	1	1	0	0	496	413	0	95	70	3	1	0	0	582	961	1078
	14:00 to 15:00	209	91	49	0	349	534	64	58	0	656	235	0	94	48	0	1	0	0	378	592	0	72	58	0	1	0	0	723	1005	1101
	15:00 to 16:00	147	90	55	3	295	687	63	49	2	801	164	3	93	53	0	0	0	0	313	820	4	65	49	2	0	3	0	943	1096	1256
	16:00 to 17:00	77	45	38	4	164	535	60	49	4	648	84	5	46	38	0	0	0	0	173	602	8	62	49	1	1	3	0	726	812	899
	17:00 to 18:00	74	23	17	2	116	485	32	23	2	542	88	2	24	17	0	2	0	0	133	527	2	34	24	0	2	0	0	589	658	722
	18:00 to 19:00	38	6	15	0	59	196	7	18	1	222	42	0	6	14	0	0	0	0	62	225	10	7	19	0	2	0	0	263	281	325
	Total	3400	922	690	18	5030	3945	914	693	16	5568	3827	57	977	678	4	10	3	1	5557	4460	39	958	713	8	7	7	1	6193	10598	11750

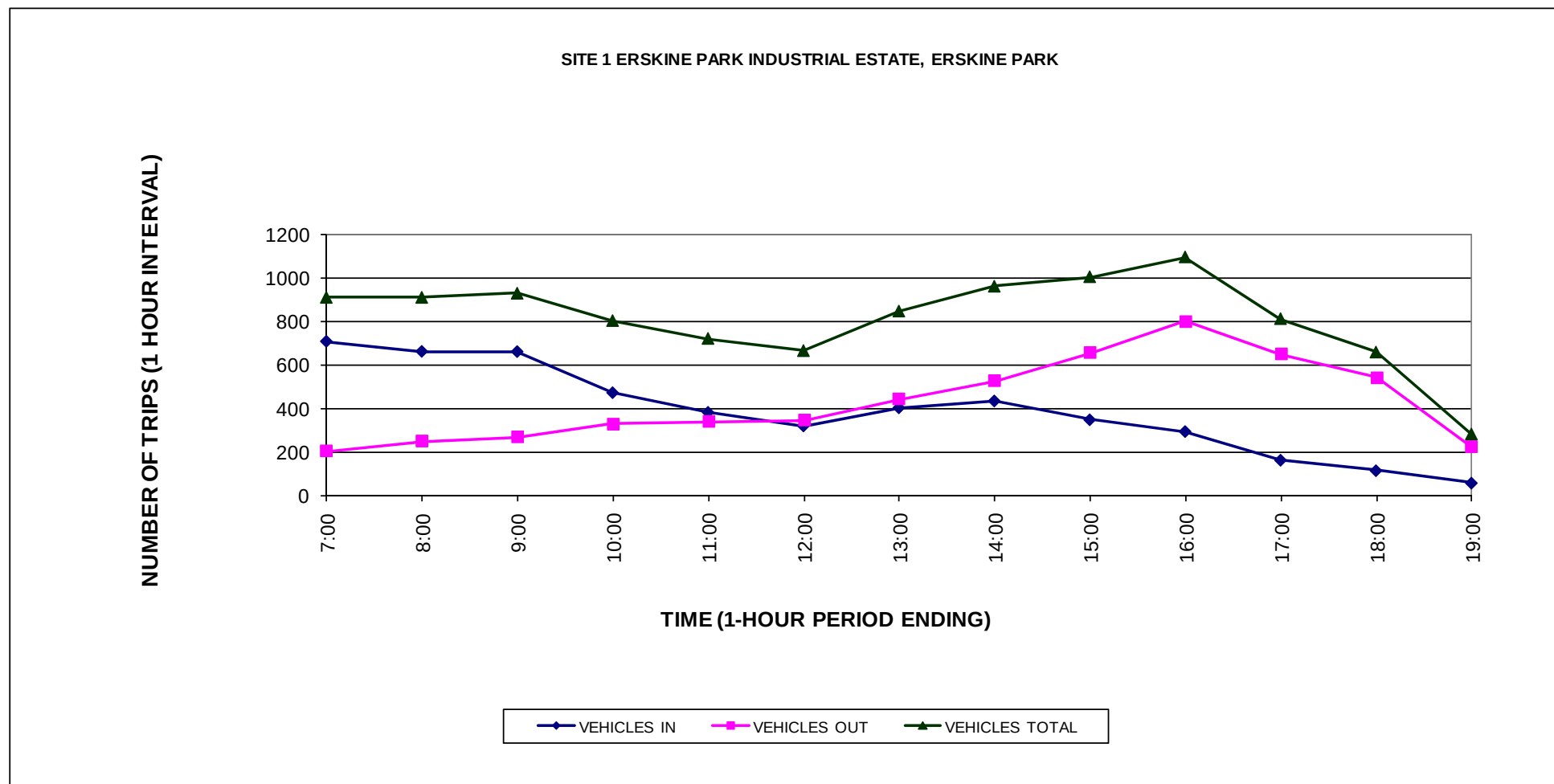


Figure 3.14 Site 1– Hourly trip distribution - vehicles.

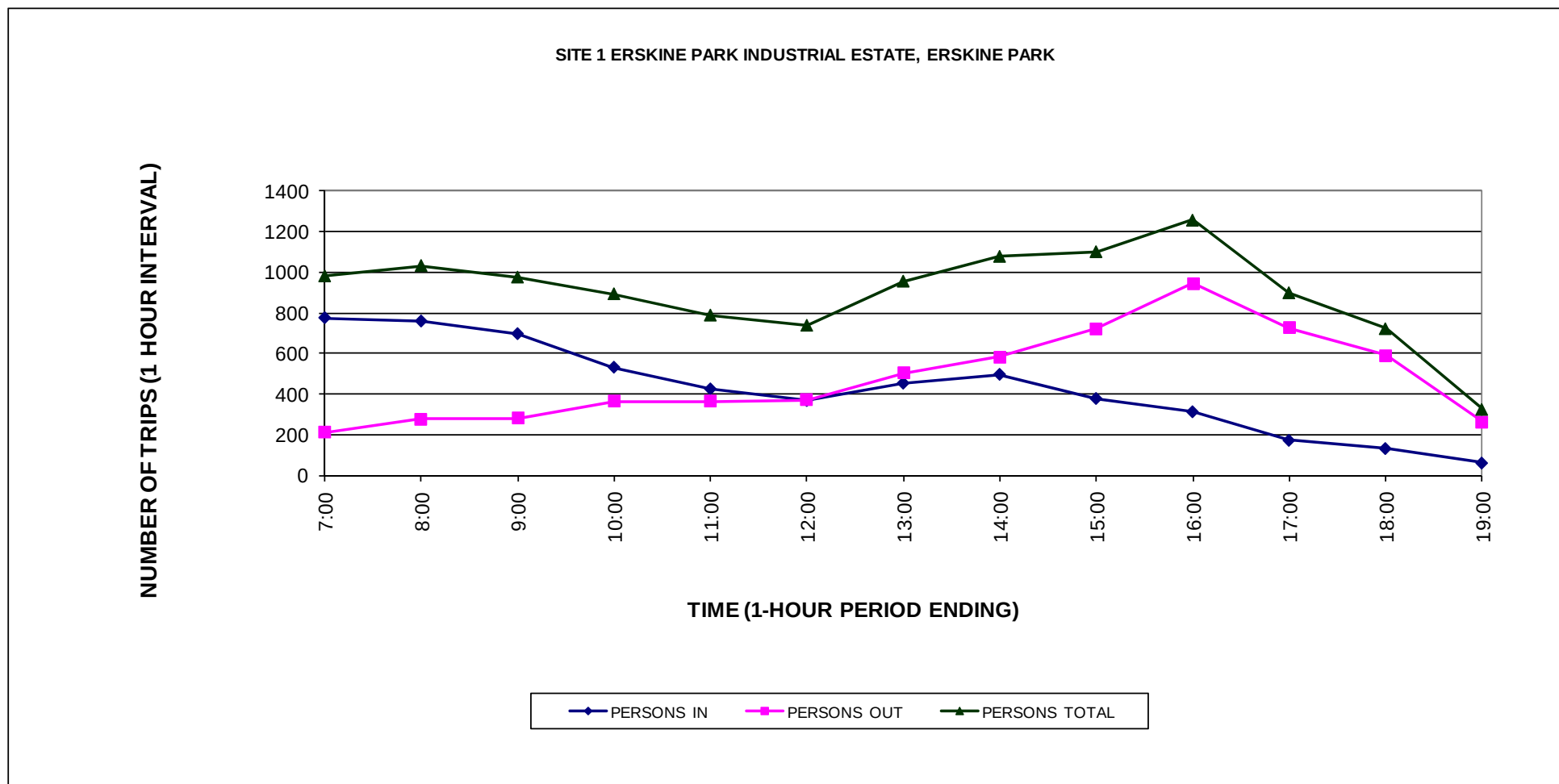


Figure 3.15 Site 1– Hourly trip distribution - persons.

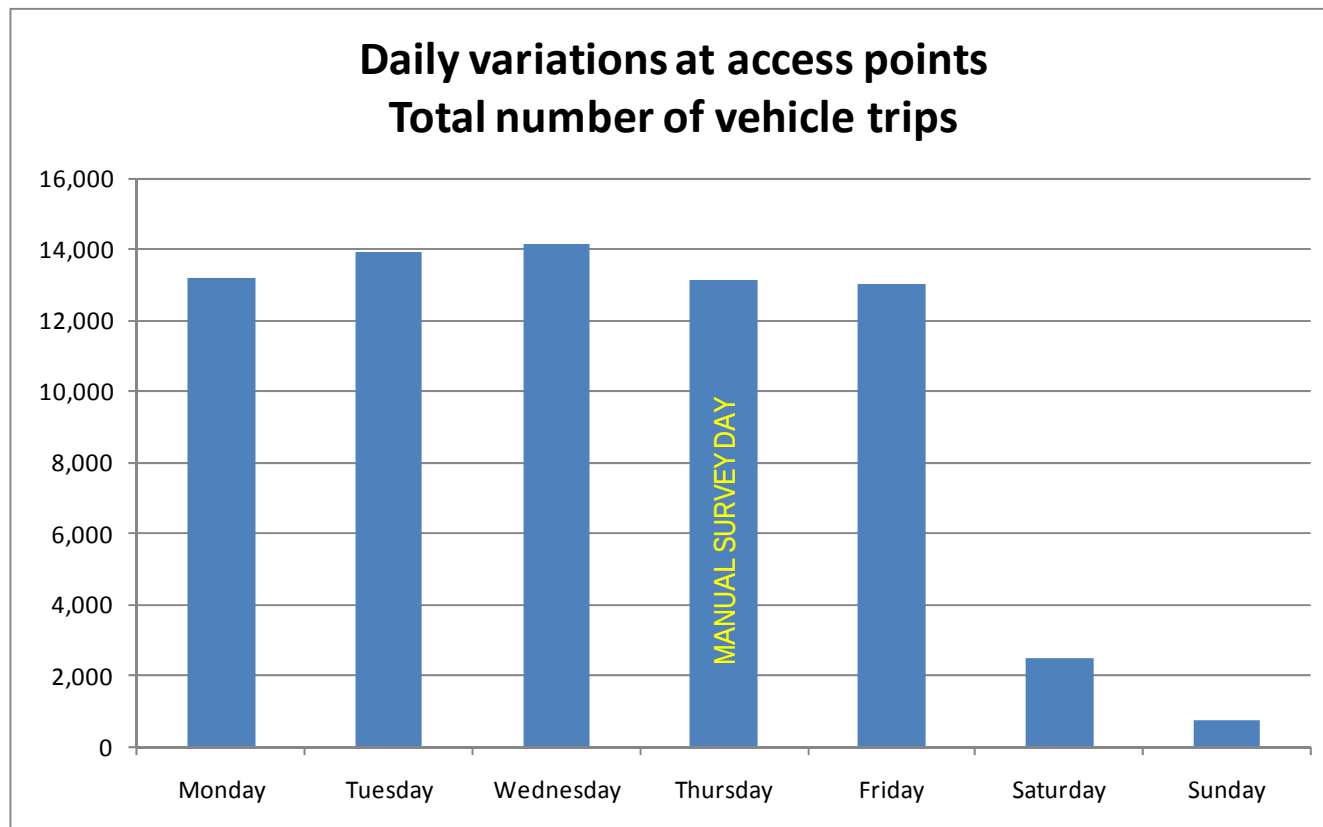


Figure 3.16 Site 1– Daily trip distribution - vehicles.

3.1.2 Site 2 Helensburgh Business Park, Helensburgh

Table 3.18 Site 2 - Survey Results – 15-minute interval data

DATE 28 March 2012		SITE 2 HELENSBURGH BUSINESS PARK, HELENSBURGH																												Grand Total		
15 minute Data		Vehicles										Persons																		15 minute Data		
WEATHER Fine	IN					OUT					IN										OUT											
	TRUCKS					TRUCKS					TRUCKS									TRUCKS												
TIME		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons	
7:00 to 7:15		0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4	4	4
7:15 to 7:30		1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1
7:30 to 7:45		2	0	0	0	2	1	0	0	0	1	3	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	1	3	4
7:45 to 8:00		2	0	0	0	2	1	0	0	0	1	2	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	3	4
8:00 to 8:15		2	0	0	0	2	1	0	0	0	1	2	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	1	3	3
8:15 to 8:30		1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1
8:30 to 8:45		2	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	2	2
8:45 to 9:00		6	0	0	0	6	1	0	0	0	1	6	0	0	0	0	0	0	0	6	1	0	0	0	0	0	0	0	0	1	7	7
9:00 to 9:15		5	0	0	0	5	0	0	0	0	0	8	0	0	0	0	0	2	0	10	0	0	0	0	0	0	0	0	0	5	10	
9:15 to 9:30		3	0	0	0	3	2	0	0	0	2	3	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	2	5	5
9:30 to 9:45		2	0	0	0	2	2	0	0	0	2	2	0	0	0	0	0	1	0	3	2	0	0	0	0	0	1	0	3	4	6	
9:45 to 10:00		3	0	0	0	3	1	0	0	0	1	3	0	0	0	0	0	1	0	4	1	0	0	0	0	0	0	0	1	4	5	
10:00 to 10:15		0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	2	2	
10:15 to 10:30		3	0	0	0	3	2	0	0	0	2	3	0	0	0	0	0	0	0	3	2	0	0	0	0	0	2	0	4	5	7	
10:30 to 10:45		0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	
10:45 to 11:00		1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	2	2	
11:00 to 11:15		1	0	0	0	1	2	0	0	0	2	1	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	2	3	3	
11:15 to 11:30		2	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	2	
11:30 to 11:45		0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	3	2	3	
11:45 to 12:00		2	0	0	0	2	3	0	0	0	3	2	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	3	5	5	
12:00 to 12:15		2	0	0	0	2	5	0	0	0	5	2	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	5	7	7	
12:15 to 12:30		0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	2	2	
12:30 to 12:45		1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	2	2	
12:45 to 13:00		3	1	0	0	4	1	1	0	0	2	3	0	1	0	0	0	0	0	4	1	0	1	0	0	0	0	0	2	6	6	
13:00 to 13:15		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13:15 to 13:30		1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	2	2	
13:30 to 13:45		1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	
13:45 to 14:00		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14:00 to 14:15		1	1	0	0	2	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	2	
14:15 to 14:30		0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2	2	2	
14:30 to 14:45		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14:45 to 15:00		3	1	0	0	4	2	0	0	0	2	3	0	1	0	0	0	0	0	4	2	0	0	0	0	0	0	0	2	6	6	
15:00 to 15:15		0	0	0	0	0	2	1	0	0	3	0	0	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	4	3	4	
15:15 to 15:30		1	0	0	0	1	3	0	0	0	3	2	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	4	4	6	
15:30 to 15:45		4	0	0	0	4	7	0	0	0	7	5	0	0	0	0	0	0	0	5	8	0	0	0	0	0	0	0	8	11	13	
15:45 to 16:00		2	0	0	0	2	3	0	0	0	3	2	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	3	5	5	
16:00 to 16:15		0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	2	2	
16:15 to 16:30		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16:30 to 16:45		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16:45 to 17:00		1	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1	3	
17:00 to 17:15		0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	2	2	
17:15 to 17:30		0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	2	2	
17:30 to 17:45		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17:45 to 18:00		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18:00 to 18:15		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18:15 to 18:30		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18:30 to 18:45		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18:45 to 19:00		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL		58	3	0	0	61	60	3	0	0	63	66	0	3	0	0	0	4	0	73	64	0	3	0	0	0	4	0	71	124	144	

Table 3.19 Site 2 - Survey Results – Hourly data - rolling at 15 minute intervals

DATE 28 March 2012 1-hour Data WEATHER Fine		SITE 2 HELENSBURGH BUSINESS PARK, HELENSBURGH																												Grand Total	
		Vehicles												Persons														Vehicles		Persons	
		IN						OUT						IN							OUT										
		TRUCKS				Buses		TRUCKS				Buses		By car		By bus		TRUCKS			Bikes		Motorbikes		Pedestrians		Other				
TIME	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total			
7:00 to 8:00	5	0	0	0	5	6	0	0	0	6	6	0	0	0	0	0	0	0	0	6	7	0	0	0	0	0	0	0	7		
7:15 to 8:15	7	0	0	0	7	3	0	0	0	3	8	0	0	0	0	0	0	0	8	4	0	0	0	0	0	0	0	4			
7:30 to 8:30	7	0	0	0	7	3	0	0	0	3	8	0	0	0	0	0	0	0	8	4	0	0	0	0	0	0	0	4			
7:45 to 8:45	7	0	0	0	7	2	0	0	0	2	7	0	0	0	0	0	0	0	7	3	0	0	0	0	0	0	0	3			
8:00 to 9:00	11	0	0	0	11	2	0	0	0	2	11	0	0	0	0	0	0	0	11	2	0	0	0	0	0	0	0	2			
8:15 to 9:15	14	0	0	0	14	1	0	0	0	1	17	0	0	0	0	0	2	0	19	1	0	0	0	0	0	0	0	1			
8:30 to 9:30	16	0	0	0	16	3	0	0	0	3	19	0	0	0	0	0	2	0	21	3	0	0	0	0	0	0	0	3			
8:45 to 9:45	16	0	0	0	16	5	0	0	0	5	19	0	0	0	0	0	3	0	22	5	0	0	0	0	0	0	1	6			
9:00 to 10:00	13	0	0	0	13	5	0	0	0	5	16	0	0	0	0	0	4	0	20	5	0	0	0	0	0	0	1	6			
9:15 to 10:15	8	0	0	0	8	7	0	0	0	7	8	0	0	0	0	0	2	0	10	7	0	0	0	0	0	0	1	8			
9:30 to 10:30	8	0	0	0	8	7	0	0	0	7	8	0	0	0	0	0	2	0	10	7	0	0	0	0	0	3	0	10			
9:45 to 10:45	6	0	0	0	6	6	0	0	0	6	6	0	0	0	0	0	1	0	7	6	0	0	0	0	0	2	0	8			
10:00 to 11:00	4	0	0	0	4	6	0	0	0	6	4	0	0	0	0	0	0	0	4	6	0	0	0	0	0	2	0	8			
10:15 to 11:15	5	0	0	0	5	6	0	0	0	6	5	0	0	0	0	0	0	0	5	6	0	0	0	0	0	2	0	8			
10:30 to 11:30	4	0	0	0	4	4	0	0	0	4	4	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	4	8		
10:45 to 11:45	4	0	0	0	4	5	0	0	0	5	4	0	0	0	0	0	0	0	4	5	0	0	0	0	0	1	0	6			
11:00 to 12:00	5	0	0	0	5	7	0	0	0	7	5	0	0	0	0	0	0	0	5	7	0	0	0	0	0	0	1	0	8		
11:15 to 12:15	6	0	0	0	6	10	0	0	0	10	6	0	0	0	0	0	0	0	6	10	0	0	0	0	0	0	1	0	11		
11:30 to 12:30	4	0	0	0	4	12	0	0	0	12	4	0	0	0	0	0	0	0	4	12	0	0	0	0	0	0	1	0	13		
11:45 to 12:45	5	0	0	0	5	11	0	0	0	11	5	0	0	0	0	0	0	0	5	11	0	0	0	0	0	0	0	11			
12:00 to 13:00	6	1	0	0	7	9	1	0	0	10	6	0	1	0	0	0	0	0	7	9	0	1	0	0	0	0	0	10			
12:15 to 13:15	4	1	0	0	5	4	1	0	0	5	4	0	1	0	0	0	0	0	5	4	0	1	0	0	0	0	0	5			
12:30 to 13:30	5	1	0	0	6	3	1	0	0	4	5	0	1	0	0	0	0	0	6	3	0	1	0	0	0	0	0	4			
12:45 to 13:45	5	1	0	0	6	2	1	0	0	3	5	0	1	0	0	0	0	0	6	2	0	1	0	0	0	0	0	3			
13:00 to 14:00	2	0	0	0	2	1	0	0	0	1	2	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	1			
13:15 to 14:15	3	1	0	0	4	1	0	0	0	1	3	0	1	0	0	0	0	0	4	1	0	0	0	0	0	0	0	1			
13:30 to 14:30	2	1	0	0	3	1	1	0	0	2	2	0	1	0	0	0	0	0	3	1	0	1	0	0	0	0	0	2			
13:45 to 14:45	1	1	0	0	2	1	1	0	0	2	1	0	1	0	0	0	0	0	2	1	0	1	0	0	0	0	0	2			
14:00 to 15:00	4	2	0	0	6	3	1	0	0	4	4	0	2	0	0	0	0	0	6	3	0	1	0	0	0	0	0	4			
14:15 to 15:15	3	1	0	0	4	5	2	0	0	7	3	0	1	0	0	0	0	0	4	6	0	2	0	0	0	0	0	8			
14:30 to 15:30	4	1	0	0	5	7	1	0	0	8	5	0	1	0	0	0	0	0	6	9	0	1	0	0	0	0	0	10			
14:45 to 15:45	8	1	0	0	9	14	1	0	0	15	10	0	1	0	0	0	0	0	11	17	0	1	0	0	0	0	0	18			
15:00 to 16:00	7	0	0	0	7	15	1	0	0	16	9	0	0	0	0	0	0	0	9	18	0	1	0	0	0	0	0	19			
15:15 to 16:15	7	0	0	0	7	15	0	0	0	15	9	0	0	0	0	0	0	0	9	17	0	0	0	0	0	0	0	17			
15:30 to 16:30	6	0	0	0	6	12	0	0	0	12	7	0	0	0	0	0	0	0	7	13	0	0	0	0	0	0	0	13			
15:45 to 16:45	2	0	0	0	2	5	0	0	0	5	2	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	5			
16:00 to 17:00	1	0	0	0	1	2	0	0	0	2	3	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	2			
16:15 to 17:15	1	0	0	0	1	2	0	0	0	2	3	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	2			
16:30 to 17:30	1	0	0	0	1	4	0	0	0	4	3	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	4			
16:45 to 17:45	1	0	0	0	1	4	0	0	0	4	3	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	4			
17:00 to 18:00	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4			
17:15 to 18:15	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2			
17:30 to 18:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
17:45 to 18:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
18:00 to 19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

Table 3.20 Site 2 - Peak hours

Peak hour	Vehicles										Persons																	
Vehicles	IN					OUT					Persons																	
	TRUCKS					TRUCKS					IN									OUT								
AM	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
8:45 to 9:45	16	0	0	0	16	5	0	0	0	5	19	0	0	0	0	0	3	0	22	5	0	0	0	0	0	0	1	6
PM																												
14:45 to 15:45	8	1	0	0	9	14	1	0	0	15	10	0	1	0	0	0	0	0	11	17	0	1	0	0	0	0	0	18

Peak hour	Vehicles										Persons																	
Persons	IN					OUT					Persons																	
	TRUCKS					TRUCKS					IN									OUT								
AM	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
8:45 to 9:45	16	0	0	0	16	5	0	0	0	5	19	0	0	0	0	0	3	0	22	5	0	0	0	0	0	0	1	6
PM																												
14:45 to 15:45	8	1	0	0	9	14	1	0	0	15	10	0	1	0	0	0	0	0	11	17	0	1	0	0	0	0	0	18

Table 3.21 Site 2 - Hourly data - consecutive

DATE 28 March 2012		SITE 2 HELENSBURGH BUSINESS PARK, HELENSBURGH																												Grand Total	
1-hour Data		Vehicles										Persons																		1-hour Data	
WEATHER Fine	TIME	IN				OUT				IN										OUT								Vehicles	Persons		
		TRUCKS			Total	TRUCKS			Total	By car		TRUCKS		Total	By car		TRUCKS		Total	By car		TRUCKS		Total							
Cars	Rigid	Artic.	Buses	Cars		Rigid	Artic.	Buses		By car	By bus	By rigid	By artic.		Bikes	Motorbikes	Pedestrians	Other		By car	By bus	By rigid	By artic.		Bikes	Motorbikes	Pedestrians	Other			
7:00 to 8:00		5	0	0	0	5	6	0	0	0	6	6	0	0	0	0	6	7	0	0	0	0	0	0	0	7	11	13			
8:00 to 9:00		11	0	0	0	11	2	0	0	0	2	11	0	0	0	0	11	2	0	0	0	0	0	0	0	2	13	13			
9:00 to 10:00		13	0	0	0	13	5	0	0	0	5	16	0	0	0	0	20	5	0	0	0	0	0	1	0	6	18	26			
10:00 to 11:00		4	0	0	0	4	6	0	0	0	6	4	0	0	0	0	4	6	0	0	0	0	0	2	0	8	10	12			
11:00 to 12:00		5	0	0	0	5	7	0	0	0	7	5	0	0	0	0	5	7	0	0	0	0	1	0	0	8	12	13			
12:00 to 13:00		6	1	0	0	7	9	1	0	0	10	6	0	1	0	0	7	9	0	1	0	0	0	0	0	10	17	17			
13:00 to 14:00		2	0	0	0	2	1	0	0	0	1	2	0	0	0	0	2	1	0	0	0	0	0	0	0	1	3	3			
14:00 to 15:00		4	2	0	0	6	3	1	0	0	4	4	0	2	0	0	6	3	0	1	0	0	0	0	0	4	10	10			
15:00 to 16:00		7	0	0	0	7	15	1	0	0	16	9	0	0	0	0	9	18	0	1	0	0	0	0	0	19	23	28			
16:00 to 17:00		1	0	0	0	1	2	0	0	0	2	3	0	0	0	0	3	2	0	0	0	0	0	0	0	2	3	5			
17:00 to 18:00		0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4	4	4			
18:00 to 19:00		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total		58	3	0	0	61	60	3	0	0	63	66	0	3	0	0	73	64	0	3	0	0	0	4	0	71	124	144			

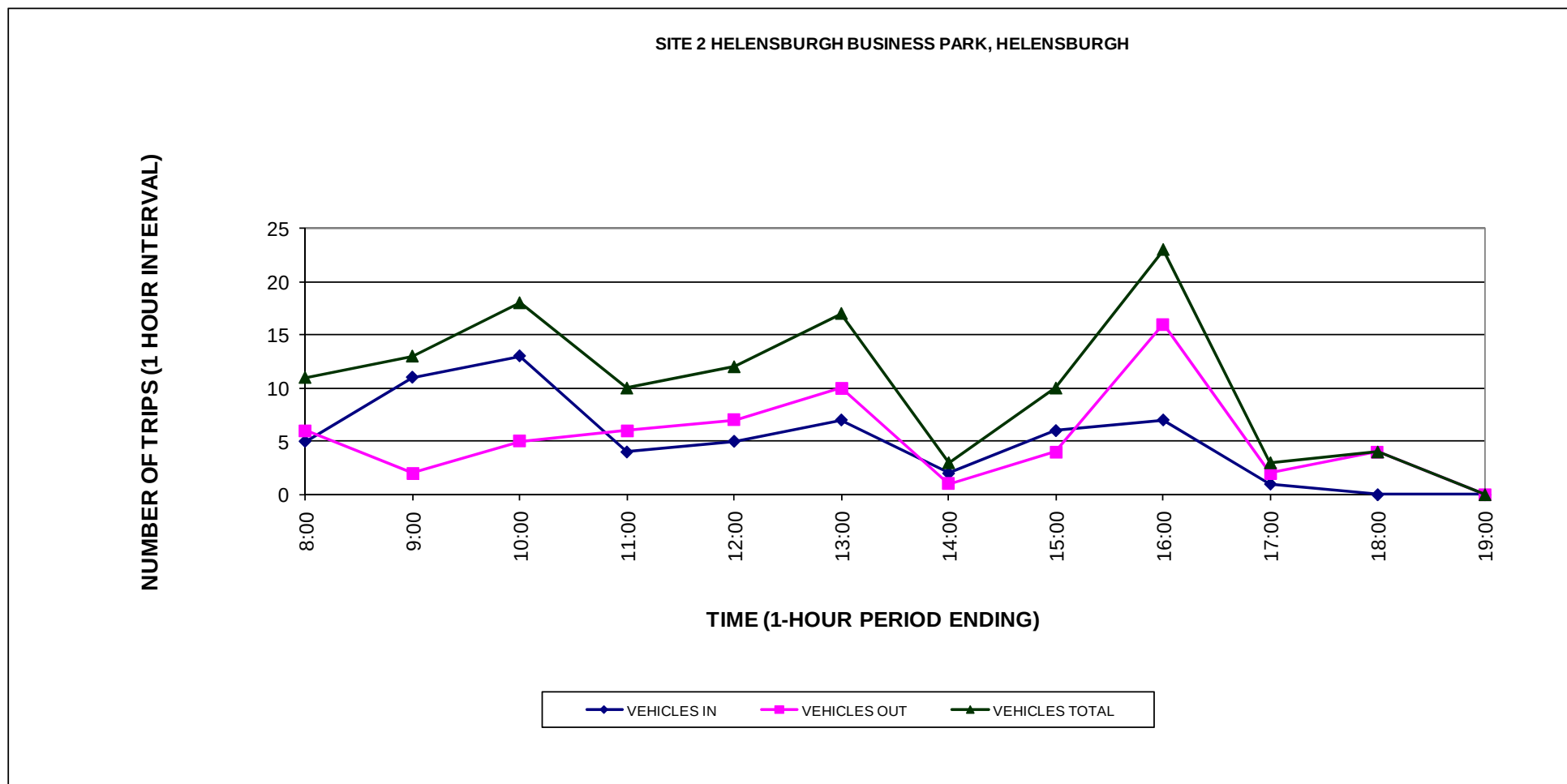


Figure 3.17 Site 2 – Hourly trip distribution - vehicles.

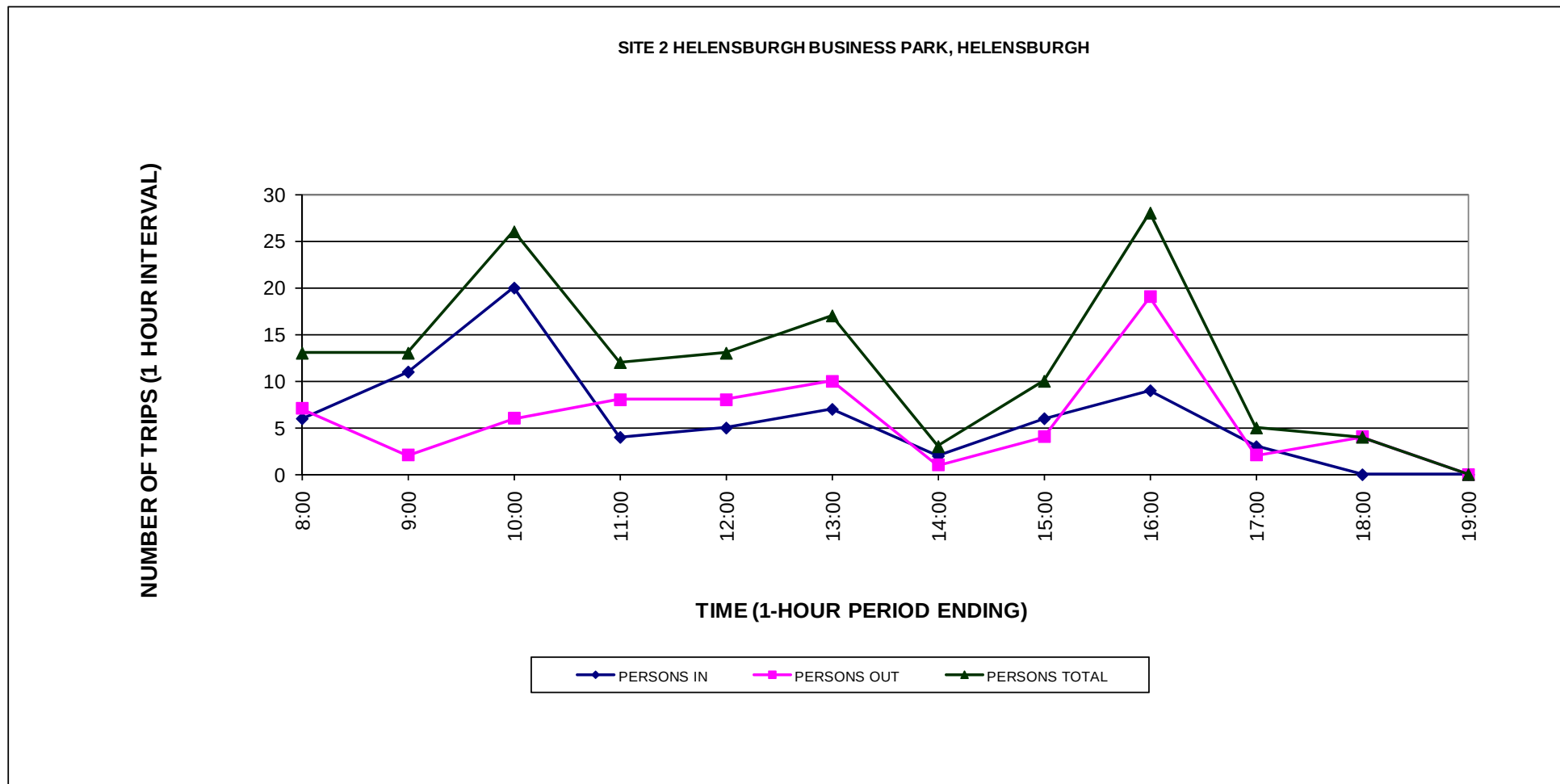


Figure 3.18 Site 2 – Hourly trip distribution - persons.

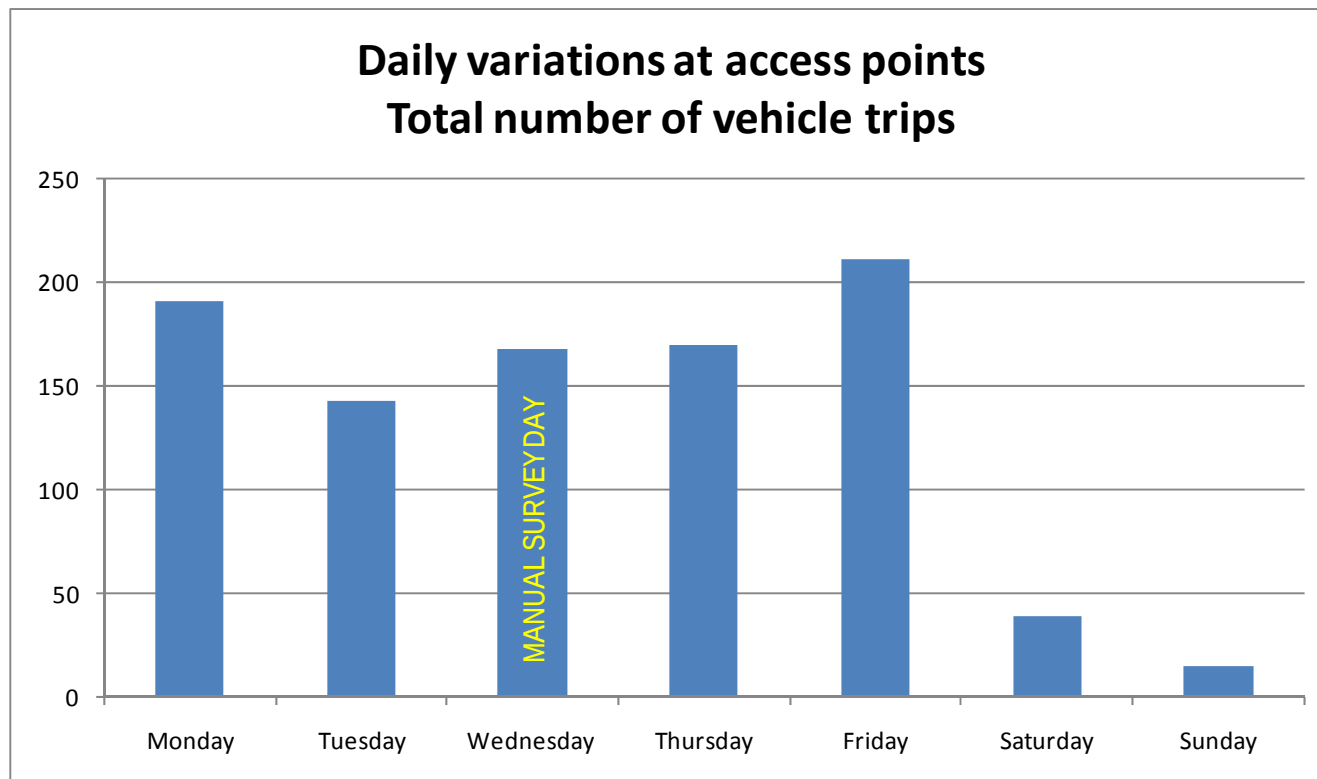


Figure 3.19 Site 2 – Daily trip distribution - vehicles.

3.1.3 Site 3 Wonderland Business Park, Eastern Creek.

Table 3.22 Site 3 - Survey Results – 15-minute interval data

DATE 27 March 2012		SITE 3 WONDERLAND BUSINESS PARK, EASTERN CREEK																														Grand Total	
15 minute Data		Vehicles										Persons																				15 minute Data	
WEATHER Fine	TIME	IN					OUT					IN										OUT											
		TRUCKS					TRUCKS					TRUCKS					IN					TRUCKS					OUT						
Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons				
7:00 to 7:15	72	15	9	2	98	17	14	2	1	34	79	3	15	9	0	0	0	0	106	21	1	14	2	1	0	0	0	0	39	132	145		
7:15 to 7:30	93	10	7	1	111	20	15	8	2	45	100	3	10	7	1	0	0	0	121	20	3	15	8	0	0	0	0	0	46	156	167		
7:30 to 7:45	73	12	19	1	105	11	15	12	1	39	77	1	12	19	0	0	0	0	109	12	1	21	12	0	0	0	0	0	46	144	155		
7:45 to 8:00	119	12	13	2	146	20	16	8	2	46	128	12	12	16	0	0	0	0	168	20	2	21	8	0	0	0	0	0	51	192	219		
8:00 to 8:15	96	12	19	1	128	22	26	8	3	59	105	2	12	21	0	0	0	0	140	24	4	26	8	0	0	0	0	0	62	187	202		
8:15 to 8:30	131	18	6	2	157	11	21	11	1	44	137	4	18	6	1	0	0	0	166	14	1	21	11	0	0	0	0	0	47	201	213		
8:30 to 8:45	141	8	12	0	161	16	20	10	0	46	150	0	8	14	3	0	0	0	175	17	0	20	10	0	0	0	0	0	47	207	222		
8:45 to 9:00	153	12	10	2	177	24	13	10	1	48	169	4	12	10	0	0	0	0	195	26	1	13	10	0	0	3	0	0	53	225	248		
9:00 to 9:15	99	11	12	1	123	28	14	14	2	58	106	3	12	12	0	0	0	0	133	31	2	15	14	0	0	0	0	0	62	181	195		
9:15 to 9:30	59	12	14	2	87	26	11	14	3	54	63	3	12	14	0	0	0	0	92	30	3	11	14	0	0	1	0	0	59	141	151		
9:30 to 9:45	54	10	10	0	74	19	15	13	0	47	60	0	10	10	0	0	0	0	80	20	0	16	13	0	0	0	0	0	49	121	129		
9:45 to 10:00	50	7	16	0	73	21	9	10	1	41	53	0	7	16	0	0	2	0	78	21	1	9	10	0	0	0	0	0	41	114	119		
10:00 to 10:15	38	14	5	0	57	29	11	18	0	58	44	0	16	5	0	0	1	0	66	33	0	11	18	0	0	0	0	0	62	115	128		
10:15 to 10:30	30	13	8	0	51	28	16	9	0	53	31	0	13	8	0	0	0	0	52	33	0	16	9	0	0	0	0	0	58	104	110		
10:30 to 10:45	37	18	20	0	75	21	10	6	0	37	44	0	18	20	0	0	0	0	82	22	0	10	6	0	0	0	0	0	38	112	120		
10:45 to 11:00	28	10	15	0	53	25	19	14	0	58	29	0	11	15	0	0	0	0	55	31	0	19	14	0	0	0	0	0	64	111	119		
11:00 to 11:15	32	17	13	0	62	38	16	11	0	65	36	0	18	13	0	0	0	0	67	43	0	17	11	0	0	0	0	0	71	127	138		
11:15 to 11:30	29	16	9	0	54	27	12	17	0	56	32	1	16	9	0	0	0	0	58	31	0	13	17	0	0	0	0	0	61	110	119		
11:30 to 11:45	41	21	11	0	73	37	8	21	0	66	44	0	21	11	0	0	0	0	76	38	0	8	23	0	0	0	0	0	69	139	145		
11:45 to 12:00	37	6	19	0	62	45	23	14	0	82	38	0	6	19	0	0	0	0	63	59	0	23	14	0	0	0	0	0	96	144	159		
12:00 to 12:15	28	16	10	0	54	71	18	11	0	100	31	0	16	10	0	0	0	0	57	90	0	19	11	0	0	0	0	0	120	154	177		
12:15 to 12:30	23	11	9	0	43	45	10	13	0	68	27	0	11	9	0	0	0	0	47	56	0	10	13	0	0	0	0	0	79	111	126		
12:30 to 12:45	29	17	20	0	66	32	10	8	0	50	34	0	17	20	0	0	0	0	71	43	0	10	8	0	0	0	0	0	61	116	132		
12:45 to 13:00	47	11	20	1	79	54	15	8	1	78	57	0	12	20	0	0	0	0	89	59	1	15	8	0	0	0	0	0	83	157	172		
13:00 to 13:15	41	5	9	0	55	54	8	7	0	69	55	0	5	9	0	0	0	0	69	63	0	8	7	0	0	0	0	0	78	124	147		
13:15 to 13:30	54	3	11	0	68	34	14	14	0	62	66	0	3	11	0	0	0	0	80	42	0	15	14	0	0	0	0	0	71	130	151		
13:30 to 13:45	56	3	9	0	68	59	10	10	0	79	66	0	5	9	0	0	0	0	80	68	0	10	10	0	0	0	0	0	88	147	168		
13:45 to 14:00	50	4	14	0	68	42	8	8	0	58	63	0	4	14	0	0	2	0	83	46	0	8	8	0	0	0	0	0	62	126	145		
14:00 to 14:15	79	15	16	0	110	112	10	6	0	128	95	0	15	16	0	0	0	0	126	129	0	10	6	2	0	0	0	0	0	147	238	273	
14:15 to 14:30	31	5	7	1	44	104	16	10	0	130	35	2	5	7	0	0	0	0	49	171	0	32	20	0	0	0	0	0	0	223	174	272	
14:30 to 14:45	39	14	10	0	63	99	12	6	1	118	46	0	14	10	0	0	0	0	70	106	3	12	6	0	0	0	0	0	0	127	181	197	
14:45 to 15:00	42	10	14	3	69	74	14	11	2	101	48	4	10	14	0	0	0	0	76	81	2	14	11	0	0	0	1	0	109	170	185		
15:00 to 15:15	20	12	11	0	43	131	9	6	0	146	25	0	12	11	0	0	0	0	48	140	0	9	6	1	0	0	0	0	0	156	189	204	
15:15 to 15:30	30	8	12	0	50	66	9	11	0	86	35	0	8	12	0	0	0	0	55	72	0	9	11	0	0	0	0	0	92	136	147		
15:30 to 15:45	19	7	8	1	35	104	14	10	2	130	21	1	8	8	0	0	0	0	38	114	2	14	10	1	0	0	0	0	0	141	165	179	
15:45 to 16:00	25	8	8	2	43	60	13	6	2	81	34	2	10	8	0	0	0	0	54	61	2	15	6	1	0	0	0	0	85	124	139		
16:00 to 16:15	23	4	5	1	33	130	10	3	1	144	28	1	4	5	0	0	1	0	39	141	4	10	3	0	0	0	0	0	0	158	177	197	
16:15 to 16:30	17	7	9	2	35	41	5	8	1	55	26	3	7	9	0	0	0	0	45	46	1	5	8	0	0	0	0	0	60	90	105		
16:30 to 16:45	15	7	4	1	27	163	8	6	2	179	17	1	8	4	0	0	0	0	30	185	3	9	6	0	0	0	0	0	0	203	206	233	
16:45 to 17:00	17	5	2	2	26	83	3	9	2	97	19	2	5	2	0	0	1	0	29	93	3	3	9	0	0	0	0	0	0	108	123	137	
17:00 to 17:15	12	5	2	1	20	200	2	6	0	208	14	4	5	2	1	0	0	0	26	218	0	2	6	0	0	0	0	0	0	226	228	252	
17:15 to 17:30	9	1	17	1	28	103	9	4	2	118	10	1	1	17	0	0	0	0	29	111	47	9	4	0	0	0	0	0	0	171	146	200	
17:30 to 17:45	11	4	2	1	18	85	2	5	2	94	12	1	4	4	0	0	0	0	21	100	3	2	5	3	0	0	0	0	0	113	112	134	
17:45 to 18:00	19	3	1	0	23	51	2	5	1	59	23	2	3	2	3	0	0	0	33	54	1	2	5	1	0	0	0	0	63	82	96		
18:00 to 18:15	19	1	4	1	25	87	4	3	2	96	25	1	1	4	0	0	0	0	31	90	3	4	3	3	0	0	0	0	103	121	134		
18:15 to 18:30	15	2	0	1	18	24	0	3	1	28	20	2	2	0	0	0	0	0	24	28	4	0	3	0	0	0	0	0	35	46	59		
18:30 to 18:45	3	1	10	0	14	28	1	2	0	31	4	0	1	10	0	0	0	0	15	29	0	1	2	0	0	0	0	0	32	45	47		
18:45 to 19:00	3	0	2	1	6	28	4	2	0	34	4	1	0	2	1	0	0	0	8	29	0	4	2	0	0	0	0	0	35	40	43		
TOTAL	2188	443	493	34	3158	2649	544	431	39	3663	2465	64	455	503	10	0	7	0	3504	3011	98	580	443	13	0	5	0	0	4150	6821	76547		

Table 3.23 Site 3 - Survey Results – Hourly data - rolling at 15 minute intervals

DATE 27 March 2012		SITE 3 WONDERLAND BUSINESS PARK, EASTERN CREEK																														Grand Total												
		Vehicles										Persons																																
1-hour Data	WEATHER	Fine	IN										OUT										IN										OUT											
			TRUCKS					Buses					Total					TRUCKS					Buses					Total					TRUCKS					Buses					Total	
TIME	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons														
7:00 to 8:00	357	49	48	6	460	68	60	30	6	164	384	19	49	51	1	0	0	0	0	504	73	7	71	30	1	0	0	0	182	624	686													
7:15 to 8:15	381	46	58	5	490	73	72	36	8	189	410	18	46	63	1	0	0	0	0	538	76	10	83	36	0	0	0	0	205	679	743													
7:30 to 8:30	419	54	57	6	536	64	78	39	7	188	447	19	54	62	1	0	0	0	0	583	70	8	89	39	0	0	0	0	206	724	789													
7:45 to 8:45	487	50	50	5	592	69	83	37	6	195	520	18	50	57	4	0	0	0	0	649	75	7	88	37	0	0	0	0	207	787	856													
8:00 to 9:00	521	50	47	5	623	73	90	39	5	197	561	10	50	51	4	0	0	0	0	676	81	6	80	39	0	0	3	0	209	820	885													
8:15 to 9:15	524	49	40	5	618	79	88	45	4	196	562	11	50	42	4	0	0	0	0	669	88	4	69	45	0	0	3	0	209	814	878													
8:30 to 9:30	452	43	48	5	548	94	58	48	6	206	488	10	44	50	3	0	0	0	0	595	104	6	59	48	0	0	4	0	221	754	816													
8:45 to 9:45	365	45	46	5	461	97	53	51	6	207	398	10	46	46	0	0	0	0	0	500	107	6	55	51	0	0	4	0	223	668	723													
9:00 to 10:00	262	40	52	3	357	94	49	51	6	200	282	6	41	52	0	0	0	2	0	383	102	6	51	51	0	0	1	0	211	557	594													
9:15 to 10:15	201	43	45	2	291	95	46	55	4	200	220	3	45	45	0	0	0	3	0	316	104	4	47	55	0	0	1	0	211	491	527													
9:30 to 10:30	172	44	39	0	255	97	51	50	1	199	188	0	46	39	0	0	0	3	0	276	107	1	52	50	0	0	0	0	210	454	486													
9:45 to 10:45	155	52	49	0	256	99	46	43	1	189	172	0	54	49	0	0	0	3	0	278	109	1	46	43	0	0	0	0	199	445	477													
10:00 to 11:00	133	55	48	0	236	103	56	47	0	206	148	0	58	48	0	0	0	1	0	255	119	0	56	47	0	0	0	0	222	442	477													
10:15 to 11:15	127	58	56	0	241	112	61	40	0	213	140	0	60	56	0	0	0	0	0	256	129	0	62	40	0	0	0	0	231	454	487													
10:30 to 11:30	126	61	57	0	244	111	57	48	0	216	141	1	63	57	0	0	0	0	0	262	127	0	59	48	0	0	0	0	234	460	496													
10:45 to 11:45	130	64	48	0	242	127	55	63	0	245	141	1	66	48	0	0	0	0	0	256	143	0	57	65	0	0	0	0	265	487	521													
11:00 to 12:00	139	60	52	0	251	147	59	63	0	269	150	1	61	52	0	0	0	0	0	264	171	0	61	65	0	0	0	0	297	520	561													
11:15 to 12:15	135	59	49	0	243	180	61	63	0	304	145	1	59	49	0	0	0	0	0	254	218	0	63	65	0	0	0	0	346	547	600													
11:30 to 12:30	129	54	49	0	232	198	59	59	0	316	140	0	54	49	0	0	0	0	0	243	243	0	60	61	0	0	0	0	364	548	607													
11:45 to 12:45	117	50	58	0	225	193	61	46	0	300	130	0	50	58	0	0	0	0	0	238	248	0	62	46	0	0	0	0	356	525	594													
12:00 to 13:00	127	55	59	1	242	202	53	40	1	296	149	0	56	59	0	0	0	0	0	264	248	1	54	40	0	0	0	0	343	538	607													
12:15 to 13:15	140	44	58	1	243	185	43	36	1	265	173	0	45	58	0	0	0	0	0	276	221	1	43	36	0	0	0	0	301	508	577													
12:30 to 13:30	171	36	60	1	268	174	47	37	1	259	212	0	37	60	0	0	0	0	0	309	207	1	48	37	0	0	0	0	293	527	602													
12:45 to 13:45	198	22	49	1	270	201	47	39	1	288	244	0	25	49	0	0	0	0	0	318	232	1	48	39	0	0	0	0	320	558	638													
13:00 to 14:00	201	15	43	0	259	189	40	39	0	268	250	0	17	43	0	0	0	2	0	312	219	0	41	39	0	0	0	0	299	527	611													
13:15 to 14:15	239	25	50	0	314	247	42	38	0	327	290	0	27	50	0	0	0	2	0	369	285	0	43	38	2	0	0	0	368	641	737													
13:30 to 14:30	216	27	46	1	290	317	44	34	0	395	259	2	29	46	0	0	0	2	0	338	414	0	60	44	2	0	0	0	520	685	858													
13:45 to 14:45	199	38	47	1	285	357	46	30	1	434	239	2	38	47	0	0	0	2	0	328	452	3	62	40	2	0	0	0	559	719	887													
14:00 to 15:00	191	44	47	4	286	389	52	33	3	477	224	6	44	47	0	0	0	0	0	321	487	5	68	43	2	0	1	0	606	763	927													
14:15 to 15:15	132	41	42	4	219	408	51	33	3	495	154	6	41	42	0	0	0	0	0	243	498	5	67	43	1	0	1	0	615	714	858													
14:30 to 15:30	131	44	47	3	225	370	44	34	3	451	154	4	44	47	0	0	0	0	0	249	399	5	44	34	1	0	1	0	484	676	733													
14:45 to 15:45	111	37	45	4	197	375	46	38	4	463	129	5	38	45	0	0	0	0	0	217	407	4	46	38	2	0	1	0	498	660	715													
15:00 to 16:00	94	35	39	3	171	361	45	33	4	443	115	3	38	39	0	0	0	0	0	195	387	4	47	33	3	0	0	0	474	614	669													
15:15 to 16:15	97	27	33	4	161	360	46	30	5	441	118	4	30	33	0	0	0	1	0	186	388	8	48	30	2	0	0	0	476	602	662													
15:30 to 16:30	84	26	30	6	146	335	42	27	6	410	109	7	29	30	0	0	0	1	0	176	362	9	44	27	2	0	0	0	444	556	620													
15:45 to 16:45	80	26	26	6	138	394	36	23	6	459	105	7	29	26	0	0	0	1	0	168	433	10	39	23	1	0	0	0	506	597	674													
16:00 to 17:00	72	23	20	6	121	417	26	26	6	475	90	7	24	20	0	0	0	2	0	143	465	11	27	26	0	0	0	0	529	596	672													
16:15 to 17:15	61	24	17	6	108	487	18	29	5	539	76	10	25	17	1	0	1	0	1	130	542	7	19	29	0	0	0	0	597	647	727													
16:30 to 17:30	53	18	25	5	101	549	22	25	6	602	60	8	19	25	1	0	1	0	0	114	607	53	23	25	0	0	0	0	708	703	822													
16:45 to 17:45	49	15	23	5	92	471	16	24	6	517	55	8	15	25	1	0	0	1	0	105	522	53	16	24	3	0	0	0	618	609	723													
17:00 to 18:00	51	13	22	3	89	439	15	20	5	479	59	8	13	25	4	0	0	0	0	109	483	51	15	20	4	0	0	0	573	568	682													
17:15 to 18:15	58	9	24	3	94	326	17	17	7	367	70	5	9	27	3	0	0	0	0	114	355	54	17	17	7	0	0	0	450	461	564													
17:30 to 18:30	64	10	7	3	84	247	8	16	6	277	80	6	10	10	3	0	0	0	0	109	272	11	8	16	7	0	0	0	314	361	423													
17:45 to 18:45	56	7	15	2	80	190	7	13	4	214	72	5	7	16	3	0	0	0	0	103	201	8	7	13	4	0	0	0	233	294	336													
18:00 to 19:00	40	4	16	3	63	167	9	10	3	189	53	4	4	16	1	0	0	0	0	78	176	7	9	10	3	0	0	0	205	252	283													

Table 3.24 Site 3 - Peak hours

Peak hour		Vehicles										Persons																	
Vehicles		IN					OUT					IN										OUT							
		TRUCKS					TRUCKS					TRUCKS										TRUCKS							
AM		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
8:00	to 9:00	521	50	47	5	623	73	80	39	5	197	561	10	50	51	4	0	0	0	676	81	6	80	39	0	0	3	0	209
PM																													
14:00	to 15:00	191	44	47	4	286	389	52	33	3	477	224	6	44	47	0	0	0	0	321	487	5	68	43	2	0	1	0	606
Peak hour		Vehicles										Persons																	
Persons		IN					OUT					IN										OUT							
		TRUCKS					TRUCKS					TRUCKS										TRUCKS							
AM		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
8:00	to 9:00	521	50	47	5	623	73	80	39	5	197	561	10	50	51	4	0	0	0	676	81	6	80	39	0	0	3	0	209
PM																													
14:00	to 15:00	191	44	47	4	286	389	52	33	3	477	224	6	44	47	0	0	0	0	321	487	5	68	43	2	0	1	0	606

Table 3.25 Site 3 - Hourly data - consecutive

DATE 27 March 2012		SITE 3 WONDERLAND BUSINESS PARK, EASTERN CREEK																												Grand Total	
1-hour Data		Vehicles										Persons																		1-hour Data	
WEATHER Fine		IN					OUT					IN										OUT									
		TRUCKS					TRUCKS					TRUCKS										TRUCKS									
TIME		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons
7:00	to 8:00	357	49	48	6	460	68	60	30	6	164	384	19	49	51	1	0	0	0	504	73	7	71	30	1	0	0	0	182	624	686
8:00	to 9:00	521	50	47	5	623	73	80	39	5	197	561	10	50	51	4	0	0	0	676	81	6	80	39	0	0	3	0	209	820	885
9:00	to 10:00	262	40	52	3	357	94	49	51	6	200	282	6	41	52	0	0	2	0	383	102	6	51	51	0	0	1	0	211	557	594
10:00	to 11:00	133	55	48	0	236	103	56	47	0	206	148	0	58	48	0	0	1	0	255	119	0	56	47	0	0	0	0	222	442	477
11:00	to 12:00	139	60	52	0	251	147	59	63	0	269	150	1	61	52	0	0	0	0	264	171	0	61	65	0	0	0	0	297	520	561
12:00	to 13:00	127	55	59	1	242	202	53	40	1	296	149	0	56	59	0	0	0	0	264	248	1	54	40	0	0	0	0	343	538	607
13:00	to 14:00	201	15	43	0	259	189	40	39	0	268	250	0	17	43	0	0	2	0	312	219	0	41	39	0	0	0	0	299	527	611
14:00	to 15:00	191	44	47	4	286	389	52	33	3	477	224	6	44	47	0	0	0	0	321	487	5	68	43	2	0	1	0	606	763	927
15:00	to 16:00	94	35	39	3	171	361	45	33	4	443	115	3	38	39	0	0	0	0	195	387	4	47	33	3	0	0	0	474	614	669
16:00	to 17:00	72	23	20	6	121	417	26	26	6	475	90	7	24	20	0	0	2	0	143	465	11	27	26	0	0	0	0	529	596	672
17:00	to 18:00	51	13	22	3	89	439	15	20	5	479	59	8	13	25	4	0	0	0	109	483	51	15	20	4	0	0	0	573	568	682
18:00	to 19:00	40	4	16	3	63	167	9	10	3	189	53	4	4	16	1	0	0	0	78	176	7	9	10	3	0	0	0	205	252	283
Total		2188	443	493	34	3158	2649	544	431	39	3663	2465	64	455	503	10	0	7	0	3504	3011	98	580	443	13	0	5	0	4150	6821	7654

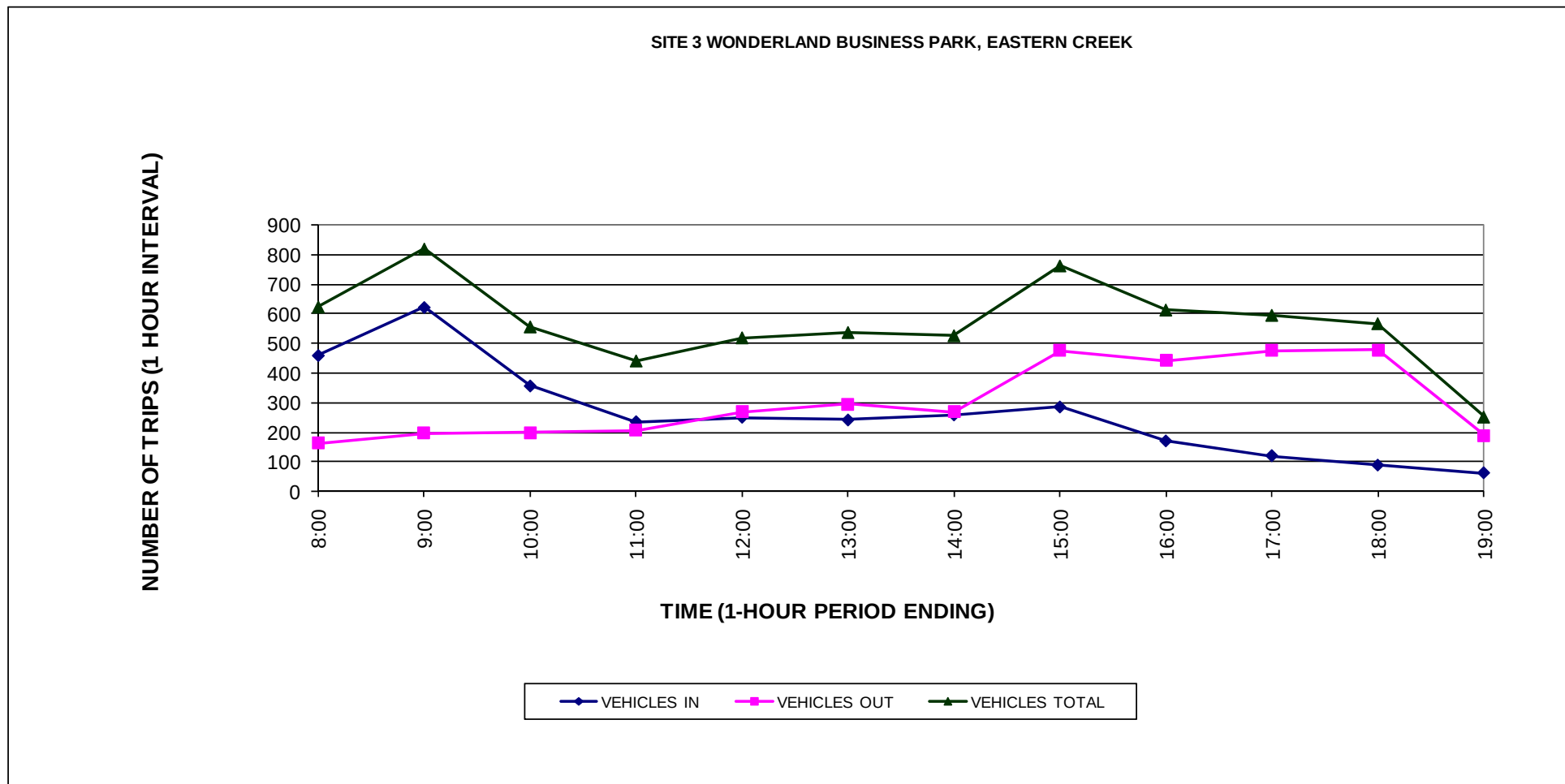


Figure 3.20 Site 3 – Hourly trip distribution - vehicles.

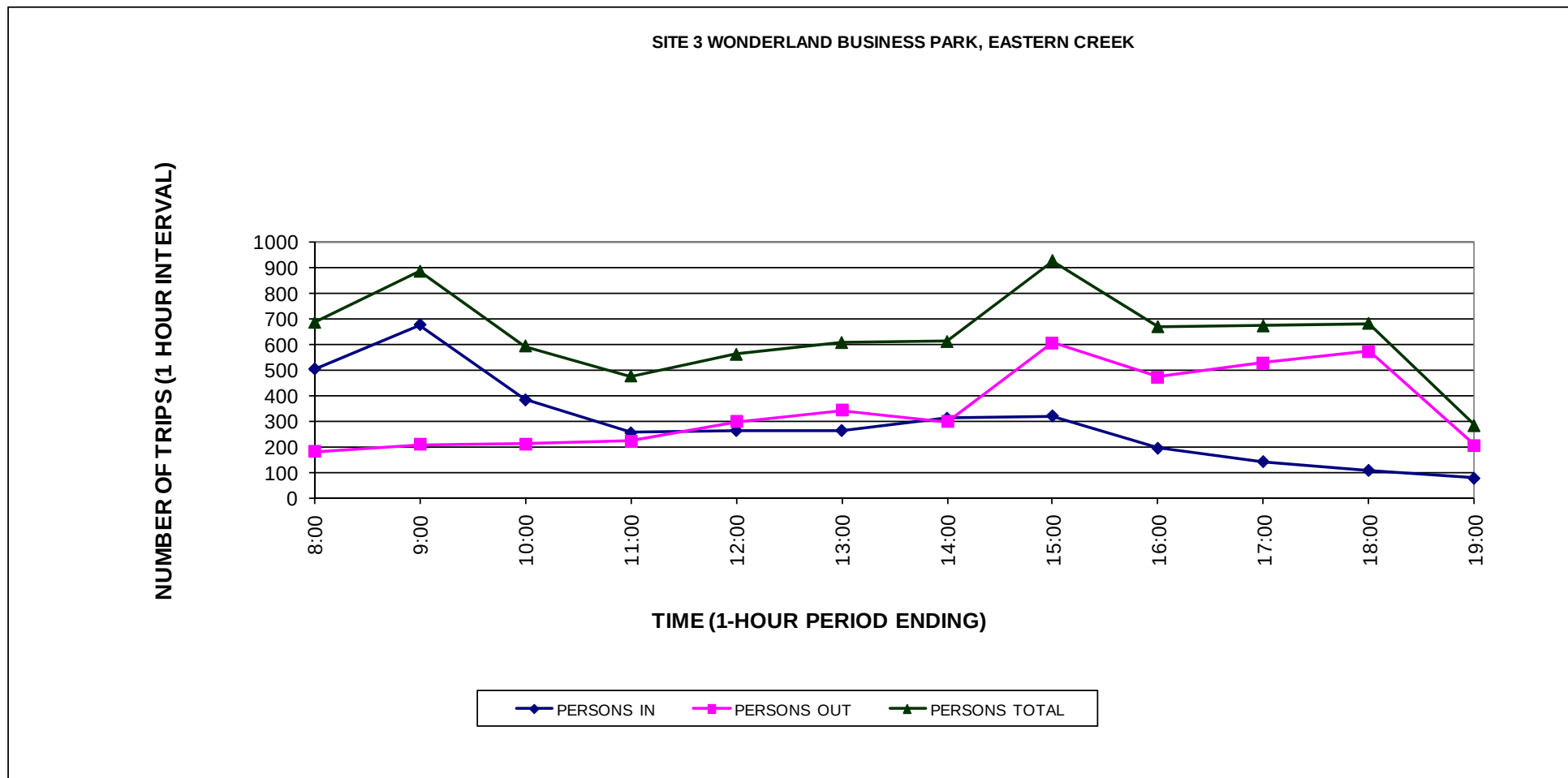


Figure 3.21 Site 3 – Hourly trip distribution - persons.

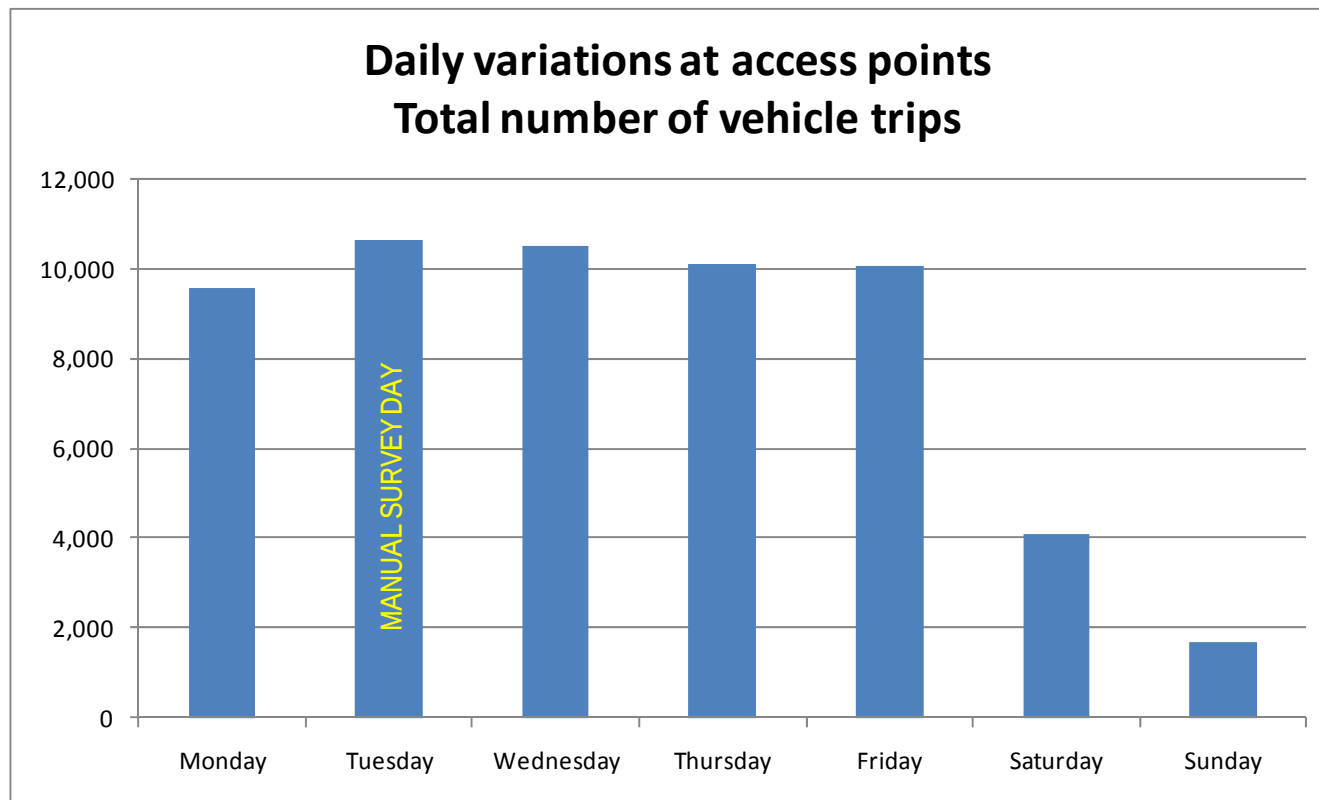


Figure 3.22 Site 3 – Daily trip distribution - vehicles.

3.1.4 Site 4 Riverwood Business Park, Riverwood.

Table 3.26 Site 4 - Survey Results – 15-minute interval data

DATE 28 March 2012	SITE 4 RIVERWOOD BUSINESS PARK, RIVERWOOD																												Grand Total			
15 minute Data	Vehicles											Persons																			15 minute Data	
WEATHER Fine	IN					OUT					IN												OUT									
	TRUCKS			Buses	Total	TRUCKS			Buses	Total	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons				
TIME	Cars	Rigid	Artic.			Cars	Rigid	Artic.			By car	By bus	By rigid						By artic.	By car	By bus						By rigid	By artic.				
7:00 to 7:15	15	0	1	0	16	1	1	1	0	3	17	0	0	1	0	0	2	0	20	1	0	1	1	0	0	0	3	19	23			
7:15 to 7:30	19	4	1	0	24	2	2	0	0	4	19	0	6	1	0	0	0	26	2	0	2	0	0	0	0	0	4	28	30			
7:30 to 7:45	24	1	0	0	25	4	2	0	0	6	29	0	1	0	0	0	5	35	4	0	2	0	0	0	0	0	6	31	41			
7:45 to 8:00	23	0	0	0	23	7	0	0	0	7	27	0	0	0	0	0	6	33	7	0	0	0	0	0	0	0	7	30	40			
8:00 to 8:15	16	1	0	0	17	3	1	0	0	4	18	0	1	0	0	0	4	23	3	0	1	0	0	0	0	0	4	21	27			
8:15 to 8:30	31	0	0	1	32	7	1	0	0	8	37	7	0	0	1	0	6	51	8	0	1	0	0	0	0	0	9	40	60			
8:30 to 8:45	19	1	0	0	20	9	0	0	0	9	26	0	1	0	0	2	0	29	11	0	0	0	0	0	0	0	11	29	40			
8:45 to 9:00	25	0	0	0	25	6	1	0	0	7	30	0	0	0	1	0	4	35	7	0	1	0	0	0	0	0	8	32	43			
9:00 to 9:15	17	3	0	0	20	7	1	0	0	8	19	0	3	0	0	0	0	22	7	0	1	0	0	0	0	0	8	28	30			
9:15 to 9:30	6	1	1	0	8	11	1	0	0	12	6	0	1	1	0	0	0	8	14	0	1	0	0	0	0	0	15	20	23			
9:30 to 9:45	11	1	0	0	12	5	2	0	0	7	12	0	1	0	0	0	0	13	6	0	2	0	0	0	0	0	8	19	21			
9:45 to 10:00	10	4	0	0	14	6	5	0	0	11	11	0	4	0	0	0	0	15	7	0	5	0	0	0	0	0	12	25	27			
10:00 to 10:15	9	2	2	0	13	7	1	0	0	8	11	0	2	2	0	0	0	15	7	0	1	0	0	0	0	0	8	21	23			
10:15 to 10:30	9	2	0	0	11	9	3	0	0	12	11	0	2	0	0	0	0	13	9	0	3	0	0	0	0	0	12	23	25			
10:30 to 10:45	4	3	0	0	7	5	2	1	0	8	4	0	3	0	0	0	0	7	7	0	2	1	0	0	0	0	10	15	17			
10:45 to 11:00	12	0	0	0	12	8	3	1	0	12	18	0	0	0	0	0	0	18	9	0	3	1	0	0	0	0	13	24	31			
11:00 to 11:15	11	3	1	0	15	12	5	1	0	18	12	0	4	1	0	0	1	18	13	0	5	1	0	0	0	0	19	33	37			
11:15 to 11:30	8	0	1	0	9	10	2	1	0	13	9	0	0	1	0	0	0	10	12	0	3	1	0	0	1	0	17	22	27			
11:30 to 11:45	11	0	0	0	11	5	2	0	0	7	13	0	0	0	0	0	0	13	5	0	2	0	0	0	0	0	7	18	20			
11:45 to 12:00	2	0	1	0	3	7	0	0	0	7	2	0	0	1	0	0	0	3	7	0	0	0	0	0	0	0	7	10	10			
12:00 to 12:15	8	2	0	0	10	10	0	0	0	10	8	0	2	0	0	2	0	12	15	0	0	0	0	0	0	0	15	20	27			
12:15 to 12:30	11	7	0	0	18	14	1	1	0	16	11	0	8	0	0	0	0	19	19	0	1	1	0	0	0	0	21	34	40			
12:30 to 12:45	4	1	0	0	5	11	2	0	0	13	5	0	1	0	0	0	2	8	12	0	2	0	0	0	1	0	15	18	23			
12:45 to 13:00	6	0	0	0	6	6	6	0	0	12	7	0	0	0	0	0	1	8	9	0	6	0	0	0	2	0	17	18	25			
13:00 to 13:15	10	3	0	0	13	7	0	0	0	7	11	0	3	0	0	0	0	14	10	0	0	0	0	0	1	0	11	20	25			
13:15 to 13:30	12	4	0	0	16	8	1	0	0	9	17	0	4	0	0	0	0	21	10	0	1	0	0	0	0	0	11	25	32			
13:30 to 13:45	16	3	1	0	20	10	3	0	0	13	20	0	3	1	0	0	0	24	11	0	3	0	0	0	0	0	14	33	38			
13:45 to 14:00	11	4	1	0	16	8	3	0	0	11	14	0	4	1	0	0	0	19	9	0	3	0	0	0	0	0	12	27	31			
14:00 to 14:15	14	2	0	0	16	5	1	1	0	7	20	0	2	0	0	0	0	22	6	0	1	1	0	0	0	0	8	23	30			
14:15 to 14:30	8	1	1	0	10	19	1	0	0	20	9	0	1	1	0	0	0	11	20	0	2	0	0	0	0	0	22	30	33			
14:30 to 14:45	6	6	0	0	12	12	4	0	0	16	7	0	6	0	0	2	0	15	14	0	4	0	0	0	1	0	19	28	34			
14:45 to 15:00	9	1	0	0	10	22	1	0	0	23	10	0	1	0	0	0	0	11	27	0	2	0	0	0	0	0	29	33	40			
15:00 to 15:15	3	3	0	0	6	15	0	0	0	15	3	0	3	0	0	0	1	7	15	0	0	0	0	0	2	0	17	21	24			
15:15 to 15:30	8	1	0	0	9	10	5	1	0	16	9	0	1	0	0	0	0	10	11	0	5	1	0	0	0	0	17	25	27			
15:30 to 15:45	2	1	0	0	3	18	1	1	0	20	2	0	1	0	0	0	0	3	19	0	1	1	0	0	2	0	23	23	26			
15:45 to 16:00	8	1	0	0	9	14	1	1	0	16	9	0	1	0	0	0	0	10	15	0	1	1	0	0	2	0	19	25	29			
16:00 to 16:15	2	1	0	0	3	29	1	0	0	30	3	0	1	0	0	0	0	4	36	0	1	0	0	0	5	0	42	33	46			
16:15 to 16:30	6	1	0	0	7	20	3	0	0	23	8	0	1	0	0	0	0	9	23	0	3	0	0	0	0	0	26	30	35			
16:30 to 16:45	7	1	0	0	8	25	2	0	0	27	8	0	1	0	0	0	0	9	33	0	2	0	0	0	3	0	38	35	47			
16:45 to 17:00	2	0	0	0	2	7	1	0	0	8	2	0	0	0	0	0	0	2	8	0	1	0	0	0	3	0	12	10	14			
17:00 to 17:15	3	0	0	0	3	24	0	0	0	24	3	0	0	0	0	0	0	3	29	0	0	0	0	0	7	0	36	27	39			
17:15 to 17:30	4	0	0	0	4	12	0	0	0	12	4	0	0	0	0	0	0	4	17	0	0	0	0	0	0	0	17	16	21			
17:30 to 17:45	3	0	0	0	3	16	1	0	0	17	3	0	0	0	0	0	0	3	19	0	1	0	0	0	2	0	22	20	25			
17:45 to 18:00	1	0	0	0	1	5	0	0	0	5	1	0	0	0	0	0	0	1	6	0	0	0	0	0	2	0	8	6	9			
18:00 to 18:15	1	0	0	0	1	9	0	0	0	9	2	0	0	0	0	0	0	2	10	0	0	0	0	0	2	0	12	10	14			
18:15 to 18:30	2	0	0	0	2	4	0	0	0	4	3	0	0	0	0	0	0	3	4	0	0	0	0	0	2	0	6	6	9			
18:30 to 18:45	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6	4	6			
18:45 to 19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TOTAL	449	69	11	1	530	475	73	10	0	558	530	7	73	11	2	0	38	0	661	559	0	76	10	0	0	38	0	683	1088	1344		

Table 3.27 Site 4 - Survey Results – Hourly data - rolling at 15 minute intervals

DATE 28 March 2012 1-hour Data WEATHER Fine		SITE 4 RIVERWOOD BUSINESS PARK, RIVERWOOD																														Grand Total	
		Vehicles										Persons																				1-hour Data	
		IN					OUT					IN										OUT											
		TRUCKS			Buses	Total	TRUCKS			Buses	Total	By car	By bus	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total		
Cars	Rigid	Artic.	Cars	Rigid			Artic.	By rigid	By artic.					By rigid	By artic.	By rigid								By artic.									
TIME		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons		
7:00 to 8:00		81	5	2	0	88	14	5	1	0	20	92	0	7	2	0	0	13	0	114	14	0	5	1	0	0	0	0	0	20	108	134	
7:15 to 8:15		82	6	1	0	89	16	5	0	0	21	93	0	8	1	0	0	15	0	117	16	0	5	0	0	0	0	0	21	110	138		
7:30 to 8:30		94	2	0	1	97	21	4	0	0	25	111	7	2	0	1	0	21	0	142	22	0	4	0	0	0	0	0	26	122	168		
7:45 to 8:45		89	2	0	1	92	26	2	0	0	28	108	7	2	0	1	0	18	0	136	29	0	2	0	0	0	0	0	31	120	165		
8:00 to 9:00		91	2	0	1	94	25	3	0	0	28	111	7	2	0	2	0	16	0	138	29	0	3	0	0	0	0	0	32	122	170		
8:15 to 9:15		92	4	0	1	97	29	3	0	0	32	112	7	4	0	2	0	12	0	137	33	0	3	0	0	0	0	0	36	129	173		
8:30 to 9:30		67	5	1	0	73	33	3	0	0	36	81	0	5	1	1	0	6	0	94	39	0	3	0	0	0	0	0	42	109	136		
8:45 to 9:45		59	5	1	0	65	29	5	0	0	34	67	0	5	1	1	0	4	0	78	34	0	5	0	0	0	0	0	39	99	117		
9:00 to 10:00		44	9	1	0	54	29	9	0	0	38	48	0	9	1	0	0	0	0	58	34	0	9	0	0	0	0	0	43	92	101		
9:15 to 10:15		36	8	3	0	47	29	9	0	0	38	40	0	8	3	0	0	0	0	51	34	0	9	0	0	0	0	0	43	85	94		
9:30 to 10:30		39	9	2	0	50	27	11	0	0	38	45	0	9	2	0	0	0	0	56	29	0	11	0	0	0	0	0	40	88	96		
9:45 to 10:45		32	11	2	0	45	27	11	1	0	39	37	0	11	2	0	0	0	0	50	30	0	11	1	0	0	0	0	42	84	92		
10:00 to 11:00		34	7	2	0	43	29	9	2	0	40	44	0	7	2	0	0	0	0	53	32	0	9	2	0	0	0	0	43	83	96		
10:15 to 11:15		36	8	1	0	45	34	13	3	0	50	45	0	9	1	0	0	1	0	56	38	0	13	3	0	0	0	0	54	95	110		
10:30 to 11:30		35	6	2	0	43	35	12	4	0	51	43	0	7	2	0	0	1	0	53	41	0	13	4	0	0	1	0	59	94	112		
10:45 to 11:45		42	3	2	0	47	35	12	3	0	50	52	0	4	2	0	0	1	0	59	39	0	13	3	0	0	1	0	56	97	115		
11:00 to 12:00		32	3	3	0	38	34	9	2	0	45	36	0	4	3	0	0	1	0	44	37	0	10	2	0	0	1	0	50	83	94		
11:15 to 12:15		29	2	2	0	33	32	4	1	0	37	32	0	2	2	0	0	2	0	38	39	0	5	1	0	0	1	0	46	70	84		
11:30 to 12:30		32	9	1	0	42	36	3	1	0	40	34	0	10	1	0	0	2	0	47	46	0	3	1	0	0	0	0	50	82	97		
11:45 to 12:45		25	10	1	0	36	42	3	1	0	46	26	0	11	1	0	0	4	0	42	53	0	3	1	0	0	1	0	58	82	100		
12:00 to 13:00		29	10	0	0	39	41	9	1	0	51	31	0	11	0	0	0	5	0	47	55	0	9	1	0	0	3	0	68	90	115		
12:15 to 13:15		31	11	0	0	42	38	9	1	0	48	34	0	12	0	0	0	3	0	49	50	0	9	1	0	0	4	0	64	90	113		
12:30 to 13:30		32	8	0	0	40	32	9	0	0	41	40	0	8	0	0	0	3	0	51	41	0	9	0	0	0	4	0	54	81	105		
12:45 to 13:45		44	10	1	0	55	31	10	0	0	41	55	0	10	1	0	0	1	0	67	40	0	10	0	0	0	3	0	53	96	120		
13:00 to 14:00		49	14	2	0	65	33	7	0	0	40	62	0	14	2	0	0	0	0	78	40	0	7	0	0	0	1	0	48	105	126		
13:15 to 14:15		53	13	2	0	68	31	8	1	0	40	71	0	13	2	0	0	0	0	86	36	0	8	1	0	0	0	0	45	108	131		
13:30 to 14:30		49	10	3	0	62	42	8	1	0	51	63	0	10	3	0	0	0	0	76	46	0	9	1	0	0	0	0	56	113	132		
13:45 to 14:45		39	13	2	0	54	44	9	1	0	54	50	0	13	2	0	0	2	0	67	49	0	10	1	0	0	1	0	61	108	128		
14:00 to 15:00		37	10	1	0	48	58	7	1	0	66	46	0	10	1	0	0	2	0	59	67	0	9	1	0	0	1	0	78	114	137		
14:15 to 15:15		26	11	1	0	38	68	6	0	0	74	29	0	11	1	0	0	3	0	44	76	0	8	0	0	0	3	0	87	112	131		
14:30 to 15:30		26	11	0	0	37	59	10	1	0	70	29	0	11	0	0	0	3	0	43	67	0	11	1	0	0	3	0	82	107	125		
14:45 to 15:45		22	6	0	0	28	65	7	2	0	74	24	0	6	0	0	0	1	0	31	72	0	8	2	0	0	4	0	86	102	117		
15:00 to 16:00		21	6	0	0	27	57	7	3	0	67	23	0	6	0	0	0	1	0	30	60	0	7	3	0	0	6	0	76	94	106		
15:15 to 16:15		20	4	0	0	24	71	8	3	0	82	23	0	4	0	0	0	0	0	27	81	0	8	3	0	0	9	0	101	106	128		
15:30 to 16:30		18	4	0	0	22	81	6	2	0	89	22	0	4	0	0	0	0	0	26	93	0	6	2	0	0	9	0	110	111	136		
15:45 to 16:45		23	4	0	0	27	88	7	1	0	96	28	0	4	0	0	0	0	0	32	107	0	7	1	0	0	10	0	125	123	157		
16:00 to 17:00		17	3	0	0	20	81	7	0	0	88	21	0	3	0	0	0	0	0	24	100	0	7	0	0	0	11	0	118	108	142		
16:15 to 17:15		18	2	0	0	20	76	6	0	0	82	21	0	2	0	0	0	0	0	23	93	0	6	0	0	0	13	0	112	102	135		
16:30 to 17:30		16	1	0	0	17	68	3	0	0	71	17	0	1	0	0	0	0	0	18	87	0	3	0	0	0	13	0	103	88	121		
16:45 to 17:45		12	0	0	0	12	59	2	0	0	61	12	0	0	0	0	0	0	0	12	73	0	2	0	0	0	12	0	87	73	99		
17:00 to 18:00		11	0	0	0	11	57	1	0	0	58	11	0	0	0	0	0	0	0	11	71	0	1	0	0	0	11	0	83	69	94		
17:15 to 18:15		9	0	0	0	9	42	1	0	0	43	10	0	0	0	0	0	0	0	10	52	0	1	0	0	0	6	0	59	52	69		
17:30 to 18:30		7	0	0	0	7	34	1	0	0	35	9	0	0	0	0	0	0	0	9	39	0	1	0	0	0	8	0	48	42	57		
17:45 to 18:45		4	0	0	0	4	22	0	0	0	22	6	0	0	0	0	0	0	0	6	26	0	0	0	0	0	6	0	32	26	38		
18:00 to 19:00		3	0	0	0	3	17	0	0	0	17	5	0	0	0	0	0	0	0	5	20	0	0	0	0	0	4	0	24	20	25		

Table 3.28 Site 4 - Peak hours

Peak hour	Vehicles										Persons																	
Vehicles	IN					OUT					IN										OUT							
	TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS							
AM	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
8:15 to 9:15	92	4	0	1	97	29	3	0	0	32	112	7	4	0	2	0	12	0	137	33	0	3	0	0	0	0	0	36
PM																												
15:45 to 16:45	23	4	0	0	27	88	7	1	0	96	28	0	4	0	0	0	0	0	32	107	0	7	1	0	0	10	0	125
Persons																												
Peak hour	Vehicles										Persons																	
Persons	IN					OUT					IN										OUT							
	TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS							
AM	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
8:15 to 9:15	92	4	0	1	97	29	3	0	0	32	112	7	4	0	2	0	12	0	137	33	0	3	0	0	0	0	0	36
PM																												
15:45 to 16:45	23	4	0	0	27	88	7	1	0	96	28	0	4	0	0	0	0	0	32	107	0	7	1	0	0	10	0	125

Table 3.29 Site 4 - Hourly data - consecutive

DATE 28 March 2012		SITE 4 RIVERWOOD BUSINESS PARK, RIVERWOOD																												Grand Total		
1-hour Data		Vehicles										Persons																		1-hour Data		
WEATHER	FINE	IN					OUT					IN										OUT										
		TRUCKS					TRUCKS					TRUCKS										TRUCKS										
TIME		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons	
7:00 to 8:00		81	5	2	0	88	14	5	1	0	20	92	0	7	2	0	0	13	0	114	14	0	5	1	0	0	0	0	0	20	108	134
8:00 to 9:00		91	2	0	1	94	25	3	0	0	28	111	7	2	0	2	0	16	0	138	29	0	3	0	0	0	0	0	32	122	170	
9:00 to 10:00		44	9	1	0	54	29	9	0	0	38	48	0	9	1	0	0	0	0	58	34	0	9	0	0	0	0	0	43	92	101	
10:00 to 11:00		34	7	2	0	43	29	9	2	0	40	44	0	7	2	0	0	0	0	53	32	0	9	2	0	0	0	0	43	83	96	
11:00 to 12:00		32	3	3	0	38	34	9	2	0	45	36	0	4	3	0	0	1	0	44	37	0	10	2	0	0	1	0	50	83	94	
12:00 to 13:00		29	10	0	0	39	41	9	1	0	51	31	0	11	0	0	0	5	0	47	55	0	9	1	0	0	3	0	68	90	115	
13:00 to 14:00		49	14	2	0	65	33	7	0	0	40	62	0	14	2	0	0	0	0	78	40	0	7	0	0	0	1	0	48	105	126	
14:00 to 15:00		37	10	1	0	48	58	7	1	0	66	46	0	10	1	0	0	2	0	59	67	0	9	1	0	0	1	0	78	114	137	
15:00 to 16:00		21	6	0	0	27	57	7	3	0	67	23	0	6	0	0	0	1	0	30	60	0	7	3	0	0	6	0	76	94	106	
16:00 to 17:00		17	3	0	0	20	81	7	0	0	88	21	0	3	0	0	0	0	0	24	100	0	7	0	0	0	11	0	118	108	142	
17:00 to 18:00		11	0	0	0	11	57	1	0	0	58	11	0	0	0	0	0	0	0	11	71	0	1	0	0	0	11	0	83	69	94	
18:00 to 19:00		3	0	0	0	3	17	0	0	0	17	5	0	0	0	0	0	0	0	5	20	0	0	0	0	0	4	0	24	20	29	
Total		449	69	11	1	530	475	73	10	0	558	530	7	73	11	2	0	38	0	661	559	0	76	10	0	0	38	0	683	1088	1344	

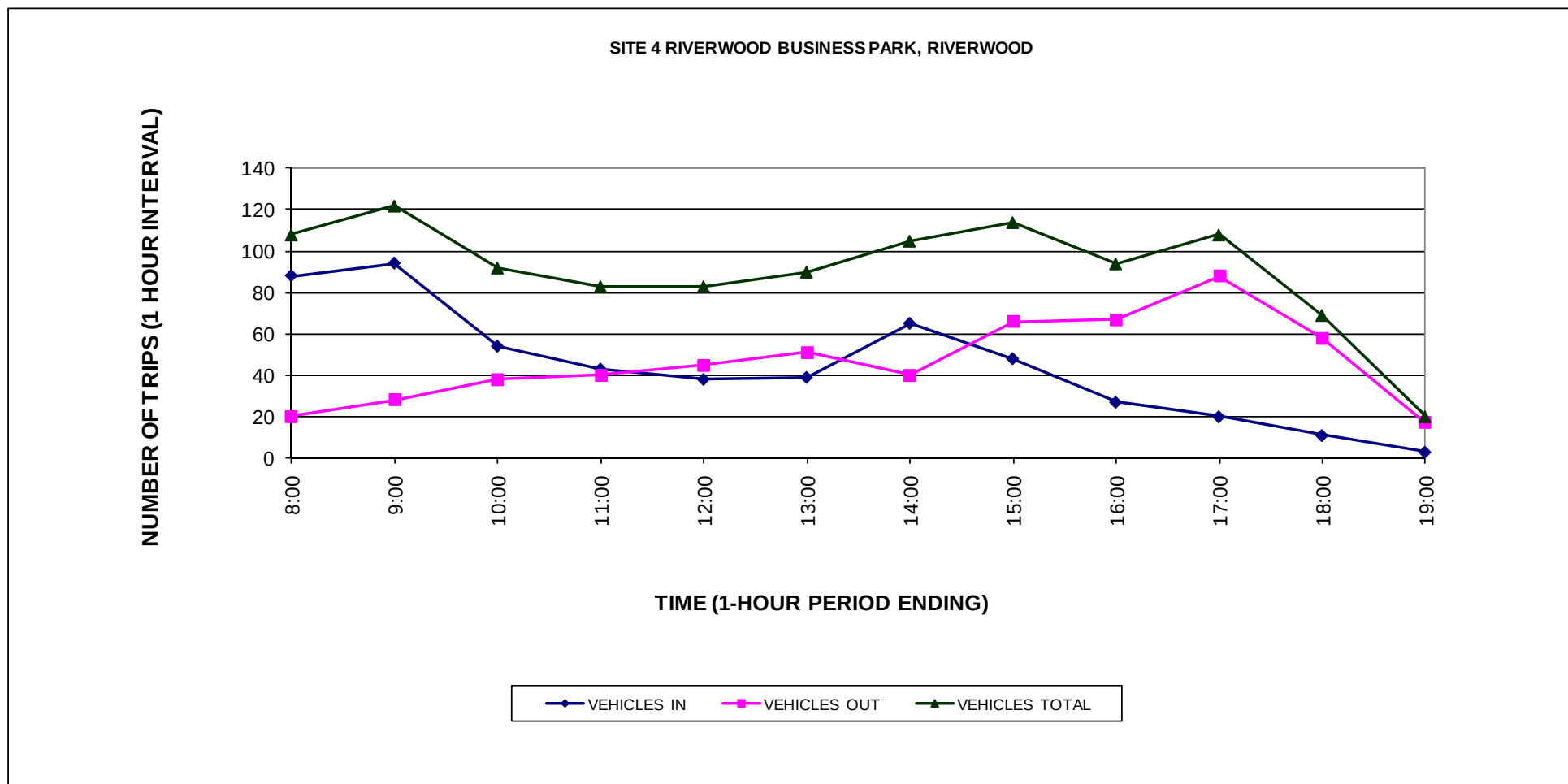


Figure 3.23 Site 4 – Hourly trip distribution - vehicles.

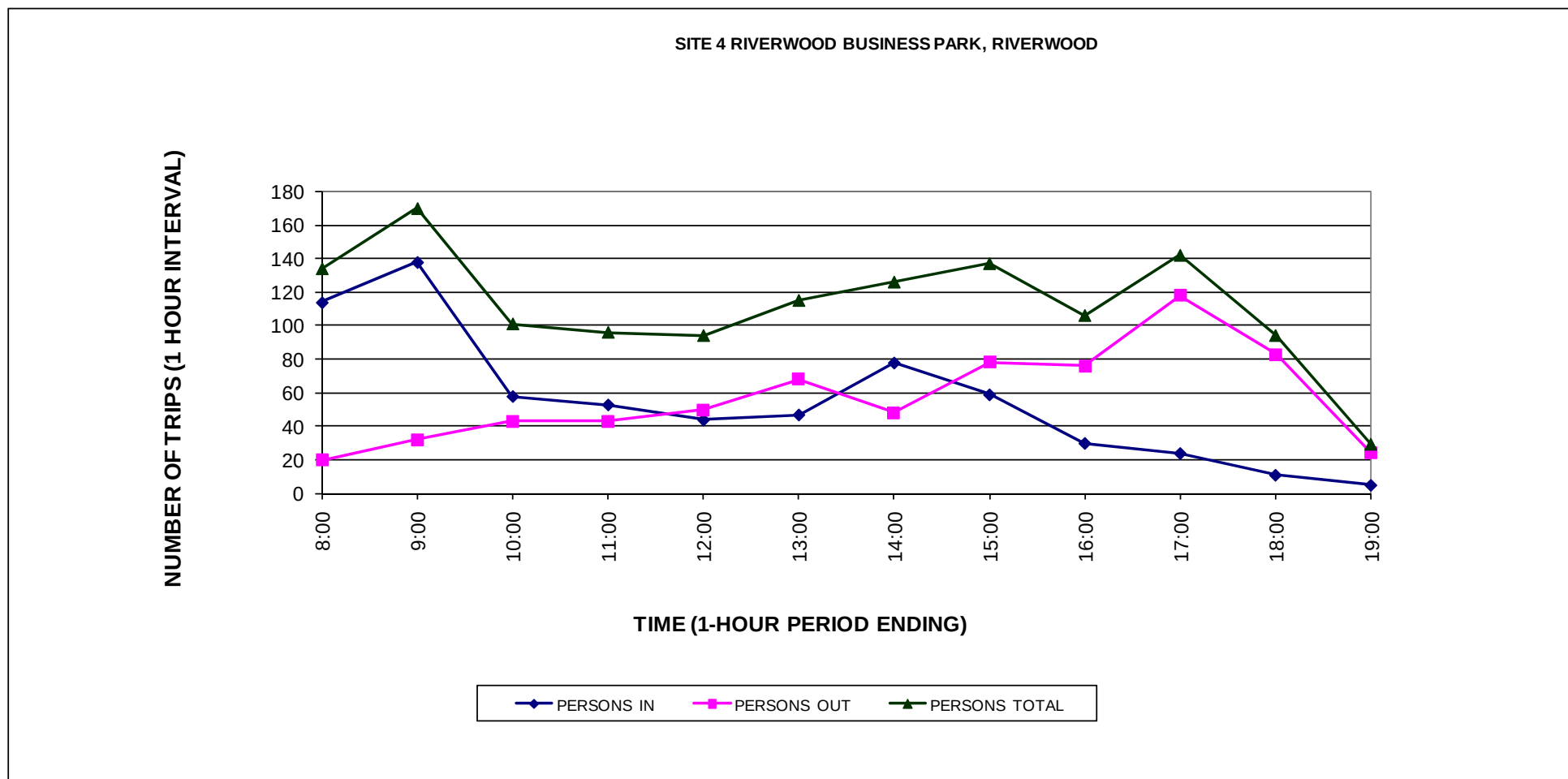


Figure 3.24 Site 4 – Hourly trip distribution - persons.

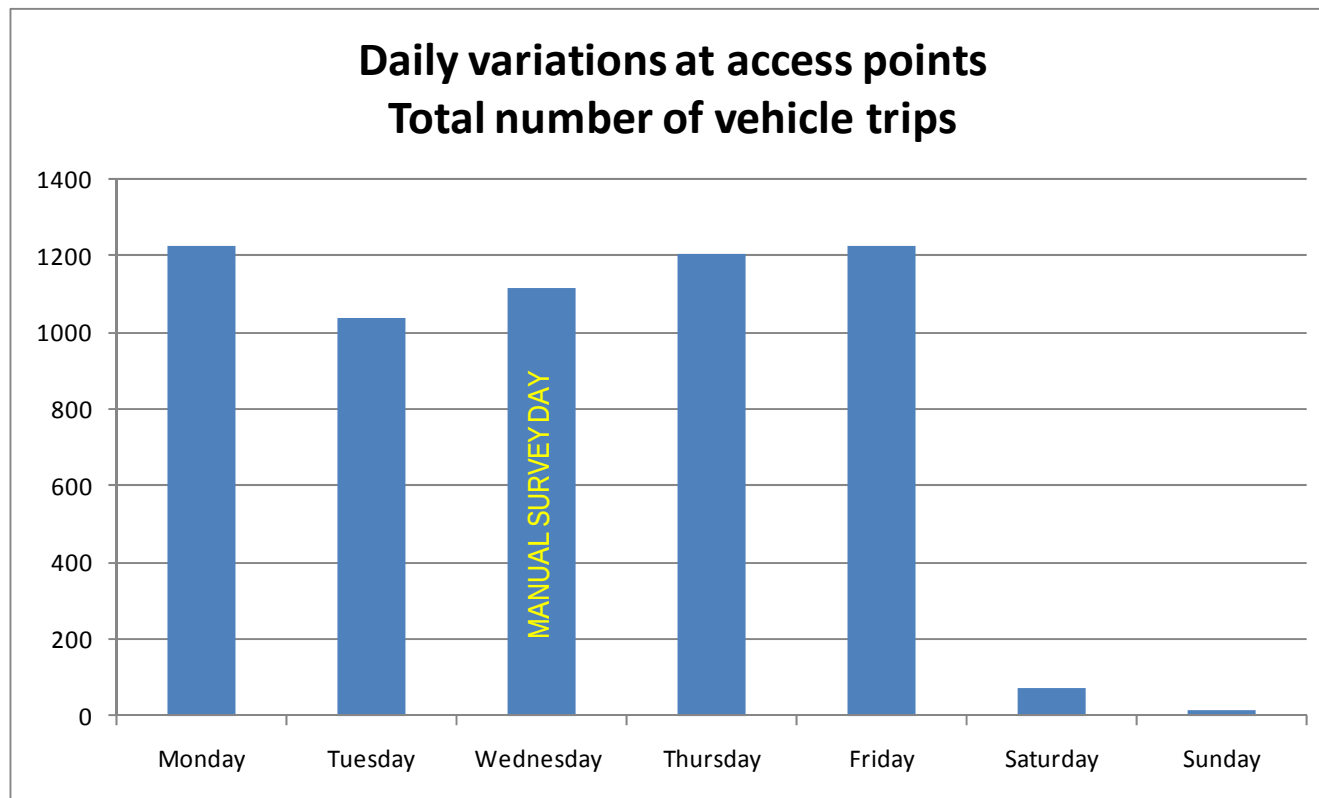


Figure 3.25 Site 4– Daily trip distribution - vehicles.

3.1.5 Site 5 Tuggerah Business Park, Tuggerah

Table 3.30 Site 5 - Survey Results – 15-minute interval data

DATE 1 May 2012		SITE 5 TUGGERAH BUSINESS PARK, TUGGERAH																												Grand Total	
15 minute Data		Vehicles										Persons																		15 minute Data	
WEATHER	Fine	IN					OUT					IN										OUT									
		TRUCKS			Buses	Total	TRUCKS			Buses	Total	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total				
TIME	Cars	Rigid	Artic.	Cars			Rigid	Artic.	By car			By bus	By rigid	By artic.						By car	By bus	By rigid						By artic.	By car	By bus	By rigid
7:00 to 7:15	112	6	0	0	118	23	2	1	0	26	130	0	8	0	1	1	1	0	141	27	0	3	2	0	0	0	0	32	144	173	
7:15 to 7:30	152	2	0	0	154	32	0	1	0	33	168	0	3	0	1	0	8	0	180	52	0	0	1	0	0	0	0	53	187	233	
7:30 to 7:45	203	2	1	1	207	44	5	0	1	50	226	1	4	1	0	1	2	0	235	47	3	6	0	0	0	0	0	56	257	291	
7:45 to 8:00	248	2	0	2	252	48	7	1	1	57	274	15	3	0	1	0	7	0	300	55	20	12	1	0	0	0	0	88	309	388	
8:00 to 8:15	241	2	1	1	245	53	3	1	1	58	259	3	3	1	1	1	6	0	274	62	5	4	1	0	0	0	1	73	303	347	
8:15 to 8:30	248	1	1	0	250	34	4	0	0	38	266	0	1	1	0	2	2	0	272	38	0	4	0	0	0	0	0	42	288	314	
8:30 to 8:45	263	6	2	2	273	48	1	0	2	51	287	4	6	2	1	4	5	0	309	51	5	1	0	0	0	0	1	0	58	324	367
8:45 to 9:00	278	3	1	2	284	49	5	2	1	57	300	6	5	1	0	0	0	0	312	51	4	10	3	0	0	0	0	68	341	380	
9:00 to 9:15	130	7	0	0	137	42	7	1	1	51	145	0	7	0	0	0	0	0	152	42	1	9	1	0	0	0	3	56	188	208	
9:15 to 9:30	93	1	1	1	96	48	1	0	1	50	101	1	2	1	1	1	2	0	109	50	0	1	0	1	0	2	0	54	146	163	
9:30 to 9:45	75	10	1	1	87	47	4	0	1	52	85	1	10	1	0	0	2	0	99	52	10	5	0	0	0	0	0	67	139	166	
9:45 to 10:00	92	4	0	0	96	38	8	2	0	48	104	0	4	0	0	1	1	0	110	44	0	9	2	0	0	0	2	0	57	144	167
10:00 to 10:15	76	3	1	3	83	65	10	0	1	76	85	8	3	2	0	1	0	0	99	79	3	10	0	0	0	0	0	92	159	191	
10:15 to 10:30	52	1	3	0	56	48	7	0	1	56	57	0	1	4	0	1	0	0	63	58	5	7	0	0	0	0	0	70	112	133	
10:30 to 10:45	64	9	0	0	73	58	4	1	0	63	73	0	9	0	0	0	0	1	83	71	0	5	1	0	1	0	0	78	136	161	
10:45 to 11:00	65	2	1	0	68	46	5	1	0	52	70	0	2	1	0	0	0	0	73	54	0	5	1	1	0	0	0	61	120	134	
11:00 to 11:15	64	6	4	1	75	48	5	3	1	57	67	3	8	4	0	0	0	0	82	57	1	5	3	0	0	0	1	0	67	132	149
11:15 to 11:30	53	5	1	1	60	55	4	0	1	60	61	2	5	1	0	0	0	0	69	66	6	6	0	0	0	0	1	0	79	120	148
11:30 to 11:45	79	5	0	0	84	60	4	1	0	65	88	0	6	0	0	0	0	0	94	66	0	4	1	0	0	0	0	71	149	165	
11:45 to 12:00	65	6	0	0	71	81	5	1	0	87	72	0	7	0	0	0	0	0	79	94	0	5	1	1	0	0	0	101	158	180	
12:00 to 12:15	63	4	0	2	69	78	6	1	2	87	74	12	4	0	0	0	0	0	90	89	12	7	1	0	0	0	0	109	156	199	
12:15 to 12:30	59	5	0	0	64	88	2	1	0	91	69	0	7	0	0	0	0	0	76	106	0	3	1	0	0	0	0	110	155	186	
12:30 to 12:45	75	3	0	0	78	90	4	0	0	94	88	0	5	0	1	0	1	0	95	115	0	5	0	0	0	0	7	0	127	172	222
12:45 to 13:00	86	8	0	0	94	80	5	0	0	85	91	0	9	0	0	0	5	0	105	95	0	6	0	0	0	0	2	0	103	179	208
13:00 to 13:15	99	2	0	2	103	89	4	0	2	95	112	7	2	0	0	0	2	0	123	100	4	4	0	0	1	1	0	110	198	233	
13:15 to 13:30	86	7	1	0	94	69	7	0	0	76	97	0	8	1	1	0	0	0	107	81	0	7	0	0	0	1	3	0	92	170	199
13:30 to 13:45	61	9	0	0	70	55	7	0	0	62	71	0	9	0	0	0	3	0	83	60	0	7	0	0	0	0	0	67	132	150	
13:45 to 14:00	83	6	0	1	90	59	5	0	0	64	100	5	6	0	0	0	2	0	113	66	0	6	0	0	0	0	1	0	73	154	186
14:00 to 14:15	87	7	2	3	99	80	10	1	4	95	97	15	7	2	0	0	0	0	121	85	30	11	1	0	0	0	1	0	128	194	249
14:15 to 14:30	65	2	4	1	72	77	4	0	1	82	74	0	2	5	0	0	0	0	81	86	1	4	0	0	0	0	0	0	91	154	172
14:30 to 14:45	71	6	0	0	77	122	3	0	0	125	82	0	6	0	0	0	0	1	89	136	0	4	0	1	0	2	0	143	202	231	
14:45 to 15:00	74	6	2	1	83	132	2	0	2	136	87	3	6	2	0	0	3	0	101	149	6	2	0	1	0	2	0	160	219	266	
15:00 to 15:15	55	13	0	0	68	116	5	0	1	122	71	0	15	0	0	0	0	0	86	129	4	6	0	0	0	0	3	0	142	190	228
15:15 to 15:30	80	9	1	1	91	105	1	2	2	110	100	10	18	1	0	0	0	0	129	130	10	1	2	1	1	5	0	150	201	279	
15:30 to 15:45	78	3	2	0	83	124	6	0	1	131	101	0	4	2	0	0	1	0	108	167	45	6	0	2	0	0	4	0	224	214	332
15:45 to 16:00	43	1	0	1	45	137	5	2	0	144	46	1	2	0	0	0	0	0	49	164	0	6	2	0	0	0	0	172	189	221	
16:00 to 16:15	47	4	1	2	54	151	0	2	2	155	60	8	5	1	0	0	0	0	74	175	8	0	2	1	0	3	0	189	209	263	
16:15 to 16:30	52	6	2	0	60	146	0	2	0	148	65	2	0	0	0	0	0	0	78	167	0	0	2	2	0	0	2	0	173	208	251
16:30 to 16:45	74	4	0	2	80	213	2	0	1	216	100	16	5	0	3	0	0	0	124	248	5	2	0	1	1	1	0	258	296	382	
16:45 to 17:00	63	8	0	0	71	154	0	0	1	155	73	0	11	0	1	0	0	0	85	171	2	0	0	2	0	0	1	0	176	226	261
17:00 to 17:15	58	8	0	1	67	346	2	0	0	348	72	6	10	0	0	1	1	0	90	384	0	2	0	5	2	8	0	401	415	491	
17:15 to 17:30	41	2	0	1	44	237	2	0	2	241	50	3	2	0	0	0	0	0	55	259	2	2	0	4	2	0	0	269	285	324	
17:30 to 17:45	46	1	0	1	48	171	0	0	2	173	59	3	1	0	0	0	1	0	64	186	6	0	0	0	0	0	1	0	193	221	257
17:45 to 18:00	42	0	0	0	42	112	0	0	0	112	55	0	0	0	0	0	0	0	55	117	0	0	0	0	0	0	0	117	154	172	
18:00 to 18:15	20	0	0	1	21	97	1	0	1	99	25	2	0	0	1	0	0	0	28	112	4	1	0	1	1	2	0	121	120	149	
18:15 to 18:30	25	0	0	0	25	52	0	0	0	52	35	0	0	0	0	0	0	2	0	37	57	0	0	0	0	1	2	0	60	77	97
18:30 to 18:45	22	0	0	1	23	31	2	1	1	35	28	3	0	0	0	0	0	0	31	35	2	2	1	0	0	0	0	40	58	71	
18:45 to 19:00	14	1	0	0	15	41	0	0	0	41	18	0	1	0	0	0	0	0	19	43	0	0	0	0	0	1	0	0	44	56	63
TOTAL	4322	208	33	36	4599	4219	176	28	38	4461	4918	138	253	36	13	15	58	0	5431	4828	204	205	30	24	12	62	0	5	9060	10796	

Table 3.31 Site 5 - Survey Results – Hourly data - rolling at 15 minute intervals

DATE 1 May 2012 1-hour Data WEATHER Fine		SITE 5 TUGGERAH BUSINESS PARK, TUGGERAH																												Grand Total 1-hour Data	
		Vehicles										Persons																			
		IN					OUT					IN									OUT										
TIME	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons	
7:00 to 8:00	715	12	1	3	731	147	14	3	2	166	798	16	18	1	3	2	18	0	856	181	23	21	4	0	0	0	0	0	229	897	1085
7:15 to 8:15	844	8	2	4	858	177	15	3	3	198	927	19	13	2	3	2	23	0	989	216	28	22	3	0	0	0	1	0	270	1056	1259
7:30 to 8:30	940	7	3	4	954	179	19	2	3	203	1025	19	11	3	2	4	17	0	1081	202	28	26	2	0	0	0	1	0	259	1157	1340
7:45 to 8:45	1000	11	4	5	1020	183	15	2	4	204	1086	22	13	4	3	7	20	0	1155	206	30	21	2	0	0	0	2	0	261	1224	1414
8:00 to 9:00	1030	12	5	5	1052	184	13	3	4	204	1112	13	15	5	2	7	13	0	1167	202	14	19	4	0	0	0	2	0	241	1256	1408
8:15 to 9:15	919	17	4	4	944	173	17	3	4	197	998	10	19	4	1	6	7	0	1045	182	10	24	4	0	0	0	4	0	224	1141	1269
8:30 to 9:30	764	17	4	5	790	187	14	3	5	209	833	11	20	4	2	5	7	0	882	194	10	21	4	1	0	0	6	0	236	999	1118
8:45 to 9:45	576	21	3	4	604	186	17	3	4	210	631	8	24	3	1	1	4	0	672	195	15	25	4	1	0	5	0	245	814	917	
9:00 to 10:00	390	22	2	2	416	175	20	3	3	201	435	2	23	2	1	2	5	0	470	188	11	24	3	1	0	7	0	234	617	704	
9:15 to 10:15	336	18	3	5	362	198	23	2	3	226	375	10	19	4	1	3	5	0	417	225	13	25	2	1	0	4	0	270	588	687	
9:30 to 10:30	295	18	5	4	322	198	29	2	3	232	331	9	18	7	0	3	3	0	371	233	18	31	2	0	0	2	0	286	554	657	
9:45 to 10:45	284	17	4	3	308	209	29	3	2	243	319	8	17	6	0	3	2	0	355	252	8	31	3	0	1	2	0	297	551	652	
10:00 to 11:00	257	15	5	3	280	217	26	2	2	247	285	8	15	7	0	2	1	0	318	262	8	27	2	1	1	0	0	301	527	619	
10:15 to 11:15	245	18	8	1	272	200	21	5	2	228	267	3	20	9	0	1	1	0	301	240	6	22	5	1	1	1	0	276	500	577	
10:30 to 11:30	246	22	6	2	276	207	18	5	2	232	271	5	24	6	0	0	1	0	307	248	7	21	5	1	1	2	0	285	508	592	
10:45 to 11:45	261	18	6	2	287	209	18	5	2	234	286	5	21	6	0	0	0	0	318	243	7	20	5	1	0	2	0	278	521	596	
11:00 to 12:00	261	22	5	2	290	244	18	5	2	269	288	5	26	5	0	0	0	0	324	283	7	20	5	1	0	2	0	318	559	642	
11:15 to 12:15	260	20	1	3	284	274	19	3	3	299	295	14	22	1	0	0	0	0	332	315	18	22	3	1	0	1	0	360	583	692	
11:30 to 12:30	266	20	0	2	288	307	17	4	2	330	303	12	24	0	0	0	0	0	339	355	12	19	4	1	0	0	0	391	618	730	
11:45 to 12:45	262	18	0	2	282	337	17	3	2	359	303	12	23	0	1	0	1	0	340	404	12	20	3	1	0	7	0	447	641	787	
12:00 to 13:00	283	20	0	2	305	336	17	2	2	357	322	12	25	0	1	0	6	0	366	405	12	21	2	0	0	9	0	449	662	815	
12:15 to 13:15	319	18	0	2	339	347	15	1	2	365	360	7	23	0	1	0	8	0	399	416	4	18	1	0	0	1	10	0	450	704	849
12:30 to 13:30	346	20	1	2	369	328	20	0	2	350	388	7	24	1	2	0	8	0	430	391	4	22	0	0	0	2	13	0	432	719	862
12:45 to 13:45	332	26	1	2	361	293	23	0	2	318	371	7	28	1	1	0	10	0	418	336	4	24	0	0	0	2	6	0	372	679	790
13:00 to 14:00	329	24	1	3	357	272	23	0	2	297	380	12	25	1	1	0	7	0	426	307	4	24	0	0	2	5	0	342	654	768	
13:15 to 14:15	317	29	3	4	353	263	29	1	4	297	365	20	30	3	1	0	5	0	424	292	30	31	1	0	1	5	0	360	650	784	
13:30 to 14:30	296	24	6	5	331	271	26	1	5	303	342	20	24	7	0	0	5	0	398	297	31	28	1	0	0	2	0	359	634	757	
13:45 to 14:45	306	21	6	5	338	338	22	1	5	366	353	20	21	7	0	0	3	0	404	373	31	25	1	1	0	4	0	435	704	839	
14:00 to 15:00	297	21	8	5	331	411	19	1	7	438	340	18	21	9	0	0	4	0	392	456	37	21	1	2	0	5	0	522	769	914	
14:15 to 15:15	265	27	6	2	300	447	14	0	4	465	314	3	29	7	0	0	4	0	357	500	11	16	0	2	0	7	0	536	765	893	
14:30 to 15:30	280	34	3	2	319	475	11	2	5	493	340	13	45	3	0	0	4	0	405	544	20	13	2	3	1	12	0	595	812	1000	
14:45 to 15:45	287	31	5	2	325	477	14	2	6	499	359	13	43	5	0	0	4	0	424	575	65	15	2	4	1	14	0	676	824	1100	
15:00 to 16:00	256	26	3	2	287	482	17	4	4	507	318	11	39	3	0	0	1	0	372	590	59	19	4	3	1	12	0	688	794	1060	
15:15 to 16:15	248	17	4	4	273	517	12	6	5	540	307	19	29	4	0	0	1	0	360	636	63	13	6	4	1	12	0	735	813	1095	
15:30 to 16:30	220	14	5	3	242	558	11	6	3	578	272	9	22	5	0	0	1	0	309	673	53	12	6	5	0	9	0	758	820	1067	
15:45 to 16:45	216	15	3	5	239	647	7	6	3	663	271	25	23	3	3	0	0	0	325	754	13	8	6	4	1	6	0	792	902	1117	
16:00 to 17:00	236	22	3	4	265	664	2	4	4	674	298	24	32	3	4	0	0	0	361	761	15	2	4	6	1	7	0	796	939	1157	
16:15 to 17:15	247	26	2	3	278	859	4	2	2	867	310	22	37	2	4	1	1	0	377	970	7	4	2	10	3	12	0	1008	1145	1385	
16:30 to 17:30	236	22	0	4	262	950	6	0	4	960	295	25	28	0	4	1	1	0	354	1062	9	6	0	12	5	10	0	1104	1222	1458	
16:45 to 17:45	208	19	0	3	230	908	4	0	5	917	254	12	24	0	1	2	1	0	294	1000	10	4	0	11	4	10	0	1039	1147	1333	
17:00 to 18:00	187	11	0	3	201	866	4	0	4	874	236	12	13	0	0	2	1	0	264	946	8	4	0	9	4	9	0	980	1075	1244	
17:15 to 18:15	149	3	0	3	155	617	3	0	5	625	189	8	3	0	1	1	0	0	202	674	12	3	0	5	3	3	0	700	780	902	
17:30 to 18:30	133	1	0	2	136	432	1	0	3	436	174	5	1	0	1	1	2	0	184	472	10	1	0	1	2	5	0	491	572	675	
17:45 to 18:45	109	0	0	2	111	292	3	1	2	298	143	5	0	0	1	0	2	0	151	321	6	3	1	1	2	4	0	338	409	489	
18:00 to 19:00	81	1	0	2	84	221	3	1	2	227	106	5	1	0	1	0	2	0	115	247	6	3	1	1	3	4	0	265	311	380	

Table 3.32 Site 5 - Peak hours

Peak hour	Vehicles										Persons																	
Vehicles	IN					OUT					IN										OUT							
	TRUCKS					TRUCKS					TRUCKS										TRUCKS							
AM	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
8:00 to 9:00	1030	12	5	5	1052	184	13	3	4	204	1112	13	15	5	2	7	13	0	1167	202	14	19	4	0	0	2	0	241
PM																												
16:30 to 17:30	236	22	0	4	262	950	6	0	4	960	295	25	28	0	4	1	1	0	354	1062	9	6	0	12	5	10	0	1104
Peak hour	Vehicles										Persons																	
Persons	IN					OUT					IN										OUT							
	TRUCKS					TRUCKS					TRUCKS										TRUCKS							
AM	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
7:45 to 8:45	1000	11	4	5	1020	183	15	2	4	204	1086	22	13	4	3	7	20	0	1155	206	30	21	2	0	0	2	0	261
PM																												
16:30 to 17:30	236	22	0	4	262	950	6	0	4	960	295	25	28	0	4	1	1	0	354	1062	9	6	0	12	5	10	0	1104

Table 3.33 Site 5 - Hourly data - consecutive

DATE 1 May 2012		SITE 5 TUGGERAH BUSINESS PARK, TUGGERAH																												Gran Total	
1-hour Data		Vehicles										Persons																		1-hour Data	
WEATHER	Fine	IN					OUT					IN										OUT								Vehicles	Persons
		TRUCKS					TRUCKS					TRUCKS										TRUCKS									
		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total		
7:00 to 8:00	715	12	1	3	731	147	14	3	2	166	798	16	18	1	3	2	18	0	856	181	23	21	4	0	0	0	0	0	229	897	1085
8:00 to 9:00	1030	12	5	5	1052	184	13	3	4	204	1112	13	15	5	2	7	13	0	1167	202	14	19	4	0	0	2	0	241	1256	1408	
9:00 to 10:00	390	22	2	2	416	175	20	3	3	201	435	2	23	2	1	2	5	0	470	188	11	24	3	1	0	7	0	234	617	704	
10:00 to 11:00	257	15	5	3	280	217	26	2	2	247	285	8	15	7	0	2	1	0	318	262	8	27	2	1	1	0	0	301	527	619	
11:00 to 12:00	261	22	5	2	290	244	18	5	2	269	288	5	26	5	0	0	0	0	324	283	7	20	5	1	0	2	0	318	559	642	
12:00 to 13:00	283	20	0	2	305	336	17	2	2	357	322	12	25	0	1	0	6	0	366	405	12	21	2	0	0	9	0	449	662	815	
13:00 to 14:00	329	24	1	3	357	272	23	0	2	297	380	12	25	1	1	0	7	0	426	307	4	24	0	0	2	5	0	342	654	768	
14:00 to 15:00	297	21	8	5	331	411	19	1	7	438	340	18	21	9	0	0	4	0	392	456	37	21	1	2	0	5	0	522	769	914	
15:00 to 16:00	256	26	3	2	287	482	17	4	4	507	318	11	39	3	0	0	1	0	372	590	59	19	4	3	1	12	0	688	794	1060	
16:00 to 17:00	236	22	3	4	265	664	2	4	4	674	298	24	32	3	4	0	0	0	361	761	15	2	4	6	1	7	0	796	939	1157	
17:00 to 18:00	187	11	0	3	201	866	4	0	4	874	236	12	13	0	0	2	1	0	264	946	8	4	0	9	4	9	0	980	1075	1244	
18:00 to 19:00	81	1	0	2	84	221	3	1	2	227	106	5	1	0	1	0	2	0	115	247	6	3	1	1	3	4	0	265	311	380	
Total		4322	208	33	36	4599	4219	176	28	38	4461	4918	138	253	36	13	15	58	0	5431	4828	204	205	30	24	12	62	0	5365	9060	10796

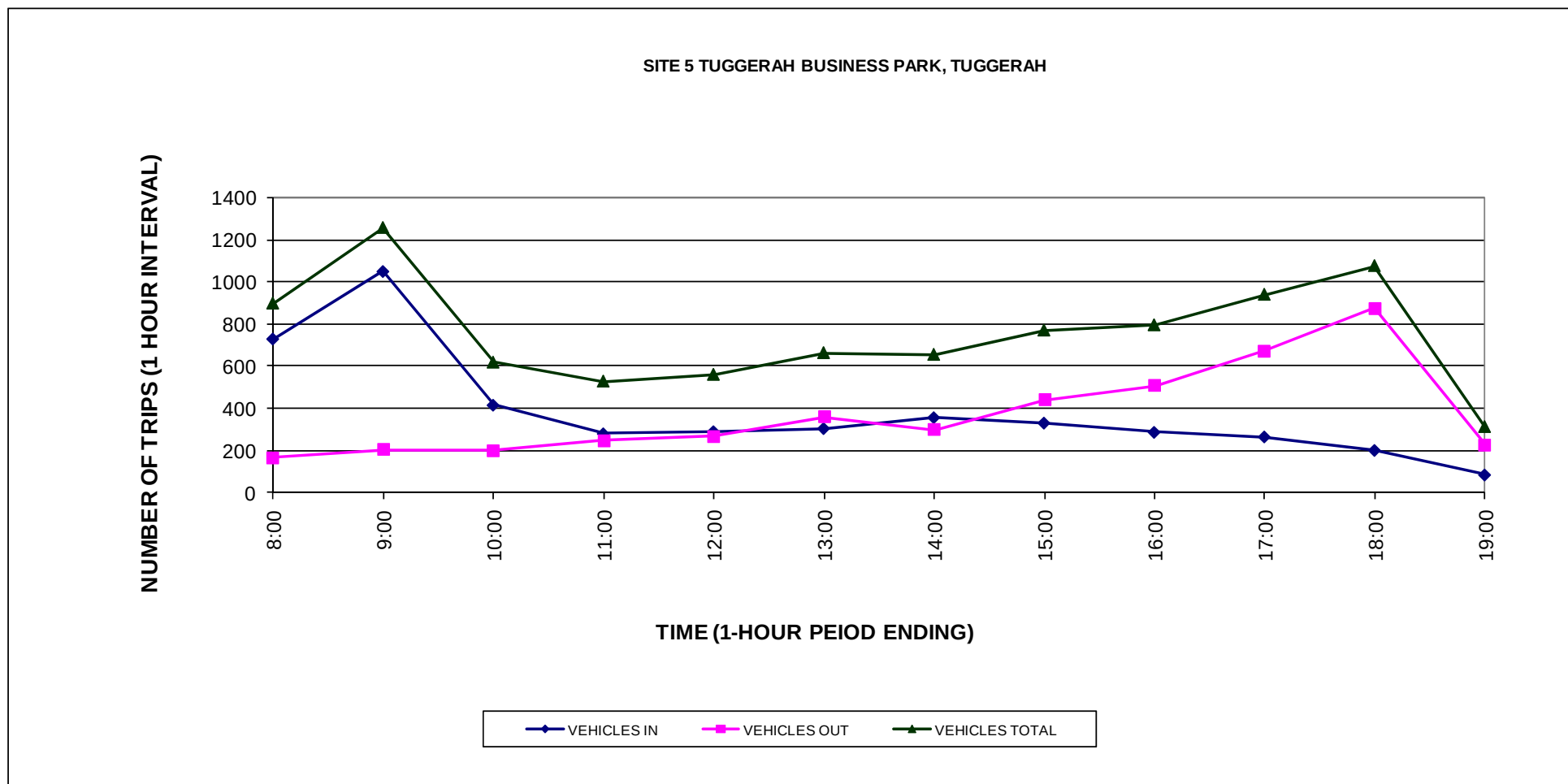


Figure 3.26 Site 5 – Hourly trip distribution - vehicles.

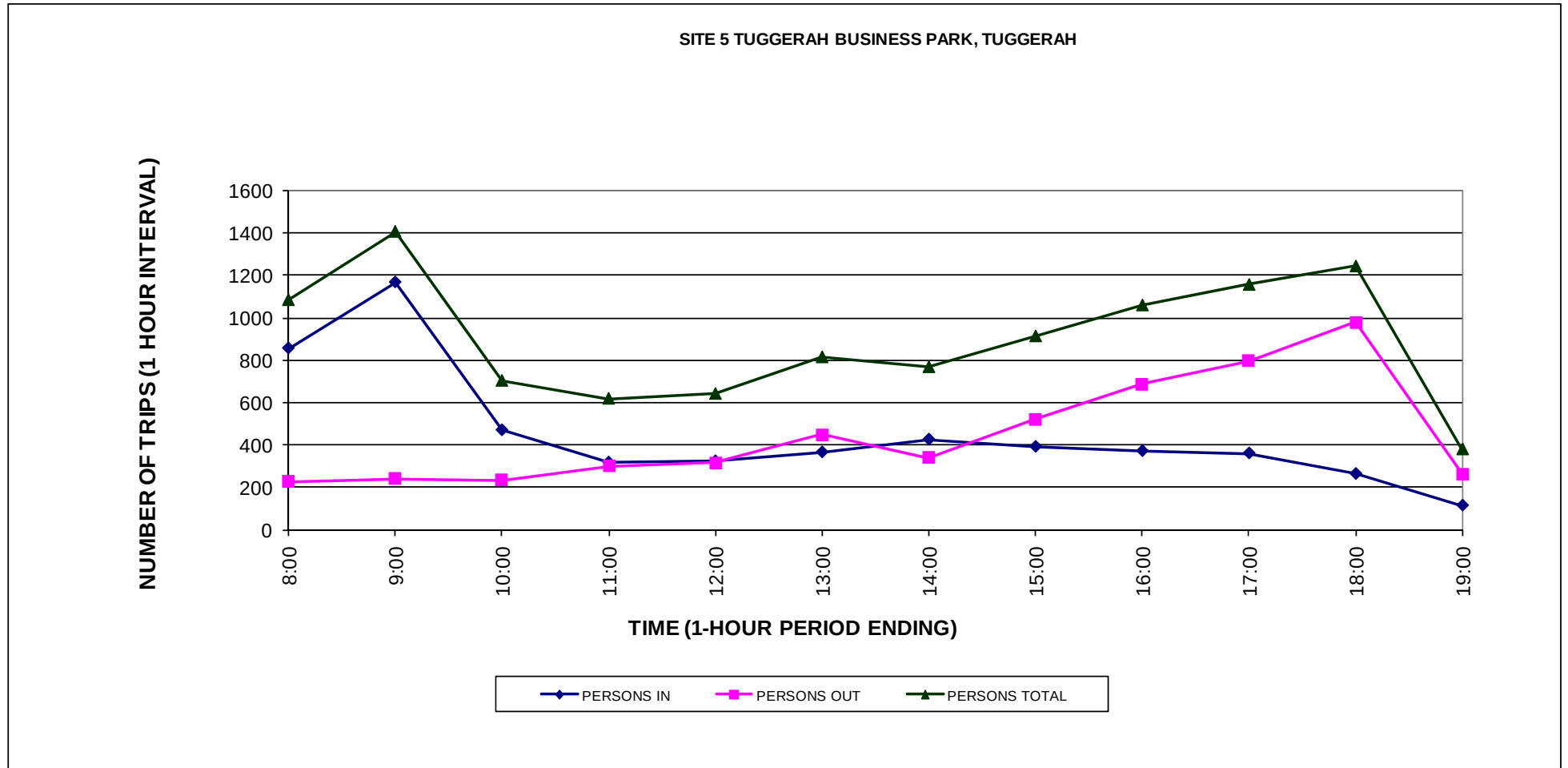


Figure 3.27 Site 5 – Hourly trip distribution - persons.

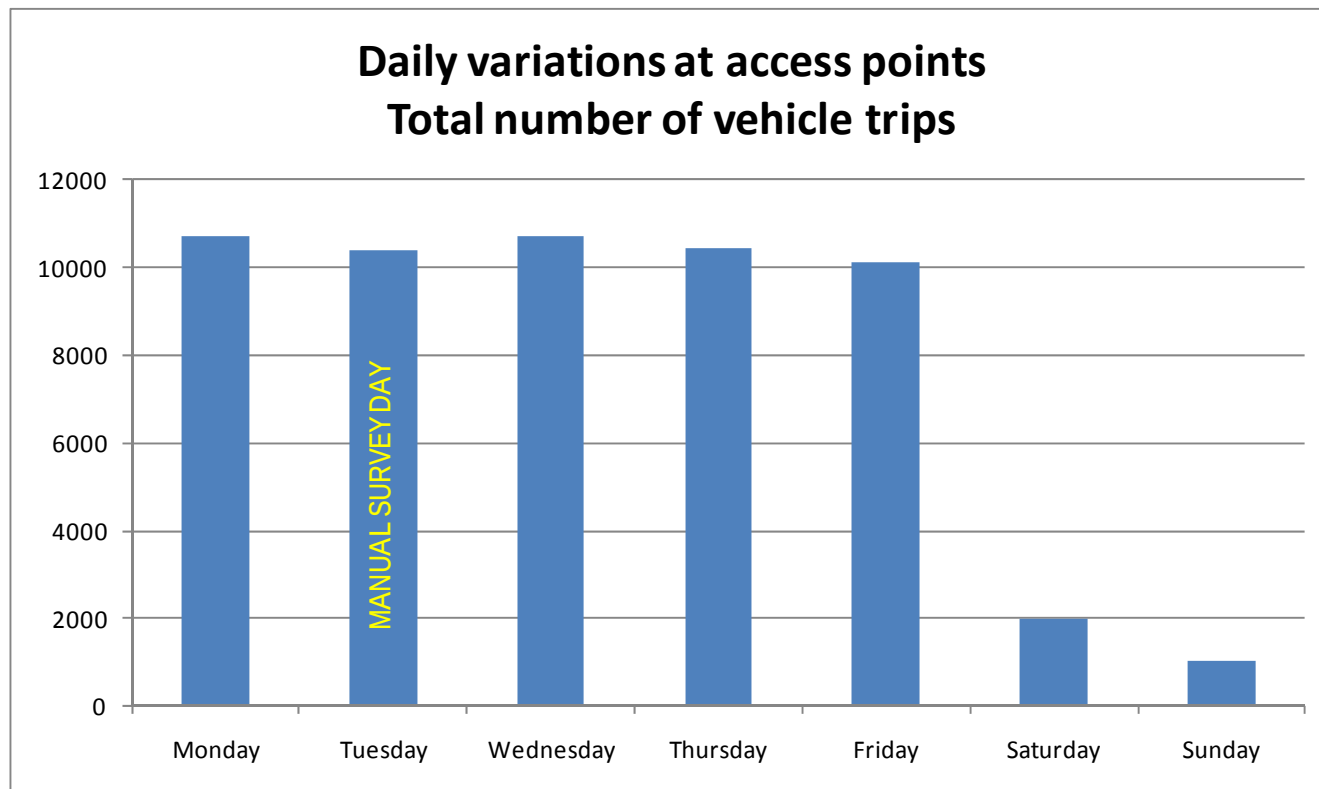


Figure 3.28 Site 5 – Daily trip distribution - vehicles.

3.1.6 Site 6 Central Business Park, Albion Park Rail

Table 3.34 Site 6 - Survey Results – 15-minute interval data

DATE 8 May 2012		SITE 6 CENTRAL BUSINESS PARK, ALBION PARK RAIL																												Grand Total			
15 minute Data		Vehicles										Persons																		15 minute Data			
WEATHER	Fine	IN					OUT					IN										OUT								Vehicles	Persons		
		TRUCKS			Buses	Total	TRUCKS			Buses	Total	By car	By bus	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	TRUCKS			Bikes	Motorbikes	Pedestrians			Other	Total
		Cars	Rigid	Artic.			Cars	Rigid	Artic.					By rigid	By artic.	By rigid								By artic.	By rigid	By artic.							
TIME		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total				
7:00	to 7:15	35	1	0	0	36	23	5	0	0	28	38	0	1	0	0	1	0	0	40	25	0	5	0	0	0	0	0	30	64	70		
7:15	to 7:30	42	1	0	0	43	20	0	0	0	20	52	0	1	0	0	0	0	53	22	0	0	0	0	0	0	0	22	63	75			
7:30	to 7:45	29	2	0	0	31	19	1	0	0	20	32	0	3	0	0	0	0	35	20	0	1	0	0	0	0	0	21	51	56			
7:45	to 8:00	52	4	0	0	56	12	2	0	0	14	53	0	5	0	0	0	0	58	13	0	2	0	0	0	0	0	15	70	73			
8:00	to 8:15	30	4	2	0	36	20	3	1	0	24	35	0	5	2	0	0	0	42	24	0	3	1	0	0	0	1	0	29	60	71		
8:15	to 8:30	42	2	2	0	46	15	2	1	0	18	44	0	2	2	0	0	0	48	19	0	2	1	0	0	0	0	22	64	70			
8:30	to 8:45	45	3	1	0	49	21	4	0	0	25	47	0	3	1	0	0	3	54	21	0	4	0	0	0	0	1	0	26	74	80		
8:45	to 9:00	34	0	0	0	34	12	2	0	0	14	34	0	0	0	0	0	0	34	12	0	2	0	0	0	0	1	0	15	48	49		
9:00	to 9:15	37	3	0	0	40	11	2	0	0	13	45	0	3	0	0	0	1	49	11	0	2	0	0	0	0	0	13	53	62			
9:15	to 9:30	49	1	2	0	52	17	4	1	0	22	53	0	1	2	0	1	0	57	17	0	4	1	1	0	1	0	24	74	81			
9:30	to 9:45	29	1	0	0	30	16	3	1	0	20	32	0	1	0	0	0	1	34	18	0	3	1	0	0	0	0	22	50	56			
9:45	to 10:00	30	4	1	0	35	18	1	0	0	19	33	0	4	1	0	0	0	38	18	0	1	0	0	0	0	0	19	54	57			
10:00	to 10:15	18	3	1	0	22	25	5	0	0	30	23	0	4	1	0	2	0	30	27	0	5	0	0	0	0	0	32	52	62			
10:15	to 10:30	19	5	0	0	24	20	3	1	0	24	25	0	5	0	0	0	1	31	20	0	3	1	2	0	0	0	26	48	57			
10:30	to 10:45	26	2	0	0	28	33	1	1	0	35	28	0	2	0	0	0	1	31	34	0	1	1	0	0	0	1	0	37	63	68		
10:45	to 11:00	24	3	0	0	27	22	2	0	0	24	29	0	3	0	0	0	0	32	22	0	2	0	0	0	0	0	24	51	56			
11:00	to 11:15	25	1	0	0	26	26	4	0	0	30	32	0	1	0	1	0	0	34	30	0	4	0	2	0	0	0	36	56	70			
11:15	to 11:30	8	4	0	0	12	9	1	0	0	10	16	0	4	0	0	0	1	21	9	0	1	0	0	0	0	0	10	22	31			
11:30	to 11:45	27	6	0	0	33	38	3	0	0	41	32	0	6	0	0	0	0	38	44	0	3	0	0	0	0	0	47	74	85			
11:45	to 12:00	32	5	0	0	37	16	1	0	0	17	36	0	6	0	0	0	0	42	16	0	1	0	0	0	1	0	18	54	60			
12:00	to 12:15	30	3	0	0	33	31	3	0	0	34	39	0	3	0	0	1	0	43	34	0	3	0	1	0	0	0	38	67	81			
12:15	to 12:30	24	3	1	0	28	16	3	1	0	20	34	0	3	1	0	1	0	39	17	0	3	1	0	0	0	0	21	48	60			
12:30	to 12:45	30	1	2	0	33	34	1	1	0	36	44	0	1	2	0	0	0	47	39	0	1	1	0	0	0	0	41	69	88			
12:45	to 13:00	20	4	0	0	24	19	0	0	0	19	20	0	4	0	1	0	0	25	19	0	0	0	2	0	0	0	21	43	46			
13:00	to 13:15	21	3	1	0	25	34	1	1	0	36	22	0	3	1	1	0	0	27	34	0	1	1	0	0	0	0	36	61	63			
13:15	to 13:30	17	0	2	0	19	29	0	1	0	30	22	0	0	2	0	1	0	25	33	0	0	1	0	0	0	0	34	49	59			
13:30	to 13:45	12	4	0	0	16	34	0	1	0	35	20	0	5	0	0	0	0	25	45	0	0	1	1	0	1	0	48	51	73			
13:45	to 14:00	29	2	2	0	33	14	2	0	0	16	39	0	2	2	0	0	0	43	17	0	2	0	0	0	0	0	19	49	62			
14:00	to 14:15	26	4	0	0	30	18	2	0	0	20	35	0	6	0	0	0	0	41	18	0	2	0	0	0	0	0	20	50	61			
14:15	to 14:30	16	0	0	0	16	20	4	0	0	24	18	0	0	0	0	0	0	18	20	0	4	0	0	0	0	0	24	40	42			
14:30	to 14:45	39	4	0	0	43	32	0	0	0	32	47	0	4	0	0	0	0	51	33	0	0	0	0	0	0	0	33	75	84			
14:45	to 15:00	29	2	1	0	32	28	4	0	0	32	43	0	2	1	0	1	0	47	33	0	4	0	0	0	0	1	0	38	64	85		
15:00	to 15:15	24	1	0	0	25	37	0	1	0	38	27	0	2	0	0	0	0	29	42	0	0	1	1	0	1	0	45	63	74			
15:15	to 15:30	24	2	0	0	26	26	1	1	0	28	38	0	2	0	0	0	5	46	30	0	1	1	0	0	0	0	32	54	78			
15:30	to 15:45	52	1	0	0	53	12	0	0	0	12	70	0	1	0	0	1	0	72	12	0	0	0	0	0	1	0	13	65	85			
15:45	to 16:00	38	1	0	0	39	50	2	0	0	52	50	0	1	0	0	0	0	51	58	0	2	0	0	0	2	0	62	91	113			
16:00	to 16:15	22	2	0	0	24	44	0	0	0	44	22	0	2	0	0	0	1	25	53	0	0	0	1	0	1	0	55	68	80			
16:15	to 16:30	47	2	0	0	49	34	3	0	0	37	58	0	2	0	0	0	0	60	41	0	3	0	1	0	0	0	45	86	105			
16:30	to 16:45	51	1	0	0	52	66	2	0	0	68	66	0	1	0	0	0	1	68	81	0	2	0	3	0	0	0	86	120	154			
16:45	to 17:00	45	0	0	0	45	61	2	0	0	63	64	0	0	0	0	1	1	66	70	0	2	0	0	1	0	0	73	108	139			
17:00	to 17:15	32	2	0	0	34	69	1	0	0	70	40	0	3	0	0	0	0	43	77	0	1	0	0	1	0	0	79	104	122			
17:15	to 17:30	53	0	0	0	53	31	0	0	0	31	68	0	0	0	0	0	0	68	37	0	0	0	0	0	0	0	37	84	105			
17:30	to 17:45	25	1	0	0	26	55	1	0	0	56	28	0	1	0	1	0	0	30	59	0	1	0	0	0	0	0	60	82	90			
17:45	to 18:00	17	0	0	0	17	18	0	0	0	18	17	0	0	0	0	0	2	19	18	0	0	0	1	0	0	0	19	35	38			
18:00	to 18:15	38	1	0	0	39	44	0	0	0	44	47	0	1	0	0	0	0	48	53	0	0	0	0	0	0	0	53	83	101			
18:15	to 18:30	33	1	0	0	34	48	0	0	0	48	36	0	1	0	0	0	0	37	59	0	0	0	0	0	0	0	59	82	96			
18:30	to 18:45	15	0	0	0	15	50	1	0	0	51	18	0	0	0	0	0	0	18	58	0	1	0	1	0	0	0	60	66	78			
18:45	to 19:00	11	0	0	0	11	20	0	0	0	20	15	0	0	0	0	0	1	16	25	0	0	0	0	0	0	0	25	31	41			
TOTAL		1453	100	18	0	1571	1367	82	13	0	1462	1766	0	110	18	4	11	18	1	1928	1537	0	82	13	17	3	12	0	1664	3033	3592		

Table 3.35 Site 6 - Survey Results – Hourly data - rolling at 15 minute intervals

DATE 8 May 2012		SITE 6 CENTRAL BUSINESS PARK, ALBION PARK RAIL																												Grand Total				
1-hour Data		Vehicles										Persons																		1-hour Data				
WEATHER Fine		IN					OUT					IN										OUT												
TIME		TRUCKS			Buses	Total	TRUCKS			Buses	Total	TRUCKS		IN		OUT		TRUCKS		OUT		TRUCKS		OUT		TRUCKS		OUT						
		Cars	Rigid	Artic.		Cars	Rigid	Artic.		Cars	Rigid	Artic.		By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total			
7:00 to 8:00		158	8	0	0	166	74	8	0	0	82	175	0	10	0	0	0	1	0	0	0	186	80	0	8	0	0	0	0	0	88	248	274	
7:15 to 8:15		153	11	2	0	166	71	6	1	0	78	172	0	14	2	0	0	0	0	0	0	188	79	0	6	1	0	0	0	1	0	87	244	275
7:30 to 8:30		153	12	4	0	169	66	8	2	0	76	164	0	15	4	0	0	0	0	0	0	183	76	0	8	2	0	0	0	1	0	87	245	270
7:45 to 8:45		169	13	5	0	187	68	11	2	0	81	179	0	15	5	0	0	0	3	0	0	202	77	0	11	2	0	0	0	2	0	92	268	294
8:00 to 9:00		151	9	5	0	165	68	11	2	0	81	160	0	10	5	0	0	0	3	0	0	178	76	0	11	2	0	0	0	3	0	92	246	270
8:15 to 9:15		158	8	3	0	169	59	10	1	0	70	170	0	8	3	0	0	0	4	0	0	185	63	0	10	1	0	0	0	2	0	76	239	261
8:30 to 9:30		165	7	3	0	175	61	12	1	0	74	179	0	7	3	0	0	1	4	0	0	194	61	0	12	1	1	0	0	3	0	78	249	272
8:45 to 9:45		149	5	2	0	156	56	11	2	0	69	164	0	5	2	0	1	2	0	1	174	58	0	11	2	1	0	0	2	0	74	225	248	
9:00 to 10:00		145	9	3	0	157	62	10	2	0	74	163	0	9	3	0	1	2	0	0	178	64	0	10	2	1	0	1	0	1	0	78	231	256
9:15 to 10:15		126	9	4	0	139	76	13	2	0	91	141	0	10	4	0	3	1	0	1	159	80	0	13	2	1	0	1	0	1	0	97	230	256
9:30 to 10:30		96	13	2	0	111	79	12	2	0	93	113	0	14	2	0	2	2	0	0	133	83	0	12	2	2	0	0	0	0	0	99	204	232
9:45 to 10:45		93	14	2	0	109	96	10	2	0	108	109	0	15	2	0	0	2	2	0	0	130	99	0	10	2	2	0	0	1	0	114	217	244
10:00 to 11:00		87	13	1	0	101	100	11	2	0	113	105	0	14	1	0	2	2	0	0	124	103	0	11	2	2	0	0	1	0	119	214	243	
10:15 to 11:15		94	11	0	0	105	101	10	2	0	113	114	0	11	0	1	0	2	0	2	0	128	106	0	10	2	4	0	0	1	0	123	218	251
10:30 to 11:30		83	10	0	0	93	90	8	1	0	99	105	0	10	0	1	0	2	0	0	118	95	0	8	1	2	0	0	1	0	107	192	225	
10:45 to 11:45		84	14	0	0	98	95	10	0	0	105	109	0	14	0	1	0	1	0	1	0	125	105	0	10	0	2	0	0	0	0	117	203	242
11:00 to 12:00		92	16	0	0	108	89	9	0	0	98	116	0	17	0	1	0	1	0	0	135	99	0	9	0	2	0	0	1	0	111	206	246	
11:15 to 12:15		97	18	0	0	115	94	8	0	0	102	123	0	19	0	0	0	1	1	0	0	144	103	0	8	0	1	0	1	0	113	217	257	
11:30 to 12:30		113	17	1	0	131	101	10	1	0	112	141	0	18	1	0	2	0	0	0	162	111	0	10	1	1	1	0	1	0	124	243	286	
11:45 to 12:45		116	12	3	0	131	97	8	2	0	107	153	0	13	3	0	2	0	0	0	171	106	0	8	2	1	0	1	0	1	0	118	238	289
12:00 to 13:00		104	11	3	0	118	100	7	2	0	109	137	0	11	3	1	2	0	0	0	154	109	0	7	2	3	0	0	0	0	121	227	275	
12:15 to 13:15		95	11	4	0	110	103	5	3	0	111	120	0	11	4	2	1	0	0	0	138	109	0	5	3	2	0	0	0	0	119	221	257	
12:30 to 13:30		88	8	5	0	101	116	2	3	0	121	108	0	8	5	2	1	0	0	0	124	125	0	2	3	2	0	0	0	0	132	222	256	
12:45 to 13:45		70	11	3	0	84	116	1	3	0	120	84	0	12	3	2	1	0	0	0	102	131	0	1	3	3	0	0	1	0	139	204	241	
13:00 to 14:00		79	9	5	0	93	111	3	3	0	117	103	0	10	5	1	1	0	0	0	120	129	0	3	3	1	0	1	0	1	0	137	210	257
13:15 to 14:15		84	10	4	0	98	95	4	2	0	101	116	0	13	4	0	1	0	0	0	134	113	0	4	2	1	0	1	0	1	0	121	199	255
13:30 to 14:30		83	10	2	0	95	86	8	1	0	95	112	0	13	2	0	0	0	0	0	127	100	0	8	1	1	0	0	1	0	111	190	238	
13:45 to 14:45		110	10	2	0	122	84	8	0	0	92	139	0	12	2	0	0	0	0	0	153	88	0	8	0	0	0	0	0	0	0	96	214	249
14:00 to 15:00		110	10	1	0	121	98	10	0	0	108	143	0	12	1	0	0	1	0	0	157	104	0	10	0	0	0	1	0	1	0	115	229	272
14:15 to 15:15		108	7	1	0	116	117	8	1	0	126	135	0	8	1	0	1	0	0	0	145	128	0	8	1	1	0	0	2	0	140	242	285	
14:30 to 15:30		116	9	1	0	126	123	5	2	0	130	155	0	10	1	0	1	5	1	0	173	138	0	5	2	1	0	0	2	0	148	256	321	
14:45 to 15:45		129	6	1	0	136	103	5	2	0	110	178	0	7	1	0	2	5	1	0	194	117	0	5	2	1	1	1	2	0	128	246	322	
15:00 to 16:00		138	5	0	0	143	125	3	2	0	130	185	0	6	0	0	1	5	1	0	198	142	0	3	2	1	1	1	3	0	152	273	350	
15:15 to 16:15		136	6	0	0	142	132	3	1	0	136	180	0	6	0	0	1	6	1	0	194	153	0	3	1	1	1	1	3	0	162	278	356	
15:30 to 16:30		159	6	0	0	165	140	5	0	0	145	200	0	6	0	0	1	1	0	0	208	164	0	5	0	2	1	3	0	0	175	310	383	
15:45 to 16:45		158	6	0	0	164	194	7	0	0	201	196	0	6	0	0	0	2	0	0	204	233	0	7	0	5	0	0	3	0	248	365	452	
16:00 to 17:00		165	5	0	0	170	205	7	0	0	212	210	0	5	0	0	0	1	3	0	0	219	245	0	7	0	5	1	1	0	0	259	382	478
16:15 to 17:15		175	5	0	0	180	230	8	0	0	238	228	0	6	0	0	0	1	2	0	0	237	269	0	8	0	4	2	0	0	0	283	418	520
16:30 to 17:30		181	3	0	0	184	227	5	0	0	232	238	0	4	0	0	0	1	2	0	0	245	265	0	5	0	0	3	2	0	0	275	416	520
16:45 to 17:45		155	3	0	0	158	216	4	0	0	220	200	0	4	0	1	1	1	1	0	207	243	0	4	0	0	0	2	0	0	0	249	378	456
17:00 to 18:00		127	3	0	0	130	173	2	0	0	175	153	0	4	0	1	0	2	0	0	160	191	0	2	0	0	1	1	0	0	0	195	305	355
17:15 to 18:15		133	2	0	0	135	148	1	0	0	149	160	0	2	0	1	0	2	0	0	165	167	0	1	0	1	0	0	0	0	169	284	334	
17:30 to 18:30		113	3	0	0	116	165	1	0	0	166	128	0	3	0	1	0	2	0	0	134	189	0	1	0	1	0	0	0	0	191	282	325	
17:45 to 18:45		103	2	0	0	105	160	1	0	0	161	118	0	2	0	0	0	2	0	0	122	188	0	1	0	2	0	0	0	0	191	266	313	
18:00 to 19:00		97	2	0	0	99	162	1	0	0	163	116	0	2	0	0	0	1	0	0	119	195	0	1	0	1	0	0	0	0	197	262	316	

Table 3.36 Site 6 - Peak hours

Peak hour		Vehicles										Persons																	
Vehicles		IN					OUT					IN										OUT							
		TRUCKS					TRUCKS					TRUCKS						TRUCKS											
AM		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
7:45	to 8:45	169	13	5	0	187	68	11	2	0	81	179	0	15	5	0	0	3	0	202	77	0	11	2	0	0	2	0	92
PM																													
16:15	to 17:15	175	5	0	0	180	230	8	0	0	238	228	0	6	0	0	1	2	0	237	269	0	8	0	4	2	0	0	283
Peak hour		Vehicles										Persons																	
Persons		IN					OUT					IN										OUT							
		TRUCKS					TRUCKS					TRUCKS						TRUCKS											
AM		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
7:45	to 8:45	169	13	5	0	187	68	11	2	0	81	179	0	15	5	0	0	3	0	202	77	0	11	2	0	0	2	0	92
PM																													
16:15	to 17:15	175	5	0	0	180	230	8	0	0	238	228	0	6	0	0	1	2	0	237	269	0	8	0	4	2	0	0	283

Table 3.37 Site 6 - Hourly data - consecutive

DATE 8 May 2012		SITE 6 CENTRAL BUSINESS PARK, ALBION PARK RAIL																												Grand Total	
1-hour Data		Vehicles										Persons																		1-hour Data	
WEATHER Fine	TIME	IN					OUT					IN										OUT									
		TRUCKS			Buses	Total	TRUCKS			Buses	Total	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total				
Cars	Rigid	Artic.	Cars	Rigid			Artic.	By car	By bus			By rigid	By artic.	By car						By bus	By rigid	By artic.									
	7:00 to 8:00	158	8	0	0	166	74	8	0	0	82	175	0	10	0	0	1	0	0	186	80	0	8	0	0	0	0	0	88	248	274
	8:00 to 9:00	151	9	5	0	165	68	11	2	0	81	160	0	10	5	0	0	3	0	178	76	0	11	2	0	0	3	0	92	246	270
	9:00 to 10:00	145	9	3	0	157	62	10	2	0	74	163	0	9	3	0	1	2	0	178	64	0	10	2	1	0	1	0	78	231	256
	10:00 to 11:00	87	13	1	0	101	100	11	2	0	113	105	0	14	1	0	2	2	0	124	103	0	11	2	2	0	1	0	119	214	243
	11:00 to 12:00	92	16	0	0	108	89	9	0	0	98	116	0	17	0	1	0	1	0	135	99	0	9	0	2	0	1	0	111	206	246
	12:00 to 13:00	104	11	3	0	118	100	7	2	0	109	137	0	11	3	1	2	0	0	154	109	0	7	2	3	0	0	0	121	227	275
	13:00 to 14:00	79	9	5	0	93	111	3	3	0	117	103	0	10	5	1	1	0	0	120	129	0	3	3	1	0	1	0	137	210	257
	14:00 to 15:00	110	10	1	0	121	98	10	0	0	108	143	0	12	1	0	1	0	0	157	104	0	10	0	0	0	1	0	115	229	272
	15:00 to 16:00	138	5	0	0	143	125	3	2	0	130	185	0	6	0	0	1	5	1	198	142	0	3	2	1	1	3	0	152	273	350
	16:00 to 17:00	165	5	0	0	170	205	7	0	0	212	210	0	5	0	0	1	3	0	219	245	0	7	0	5	1	1	0	259	382	478
	17:00 to 18:00	127	3	0	0	130	173	2	0	0	175	153	0	4	0	1	0	2	0	160	191	0	2	0	1	1	0	0	195	305	355
	18:00 to 19:00	97	2	0	0	99	162	1	0	0	163	116	0	2	0	0	1	0	0	119	195	0	1	0	1	0	0	0	197	262	316
	Total	1453	100	18	0	1571	1367	82	13	0	1462	1766	0	110	18	4	11	18	1	1928	1537	0	82	13	17	3	12	0	1664	3033	3592

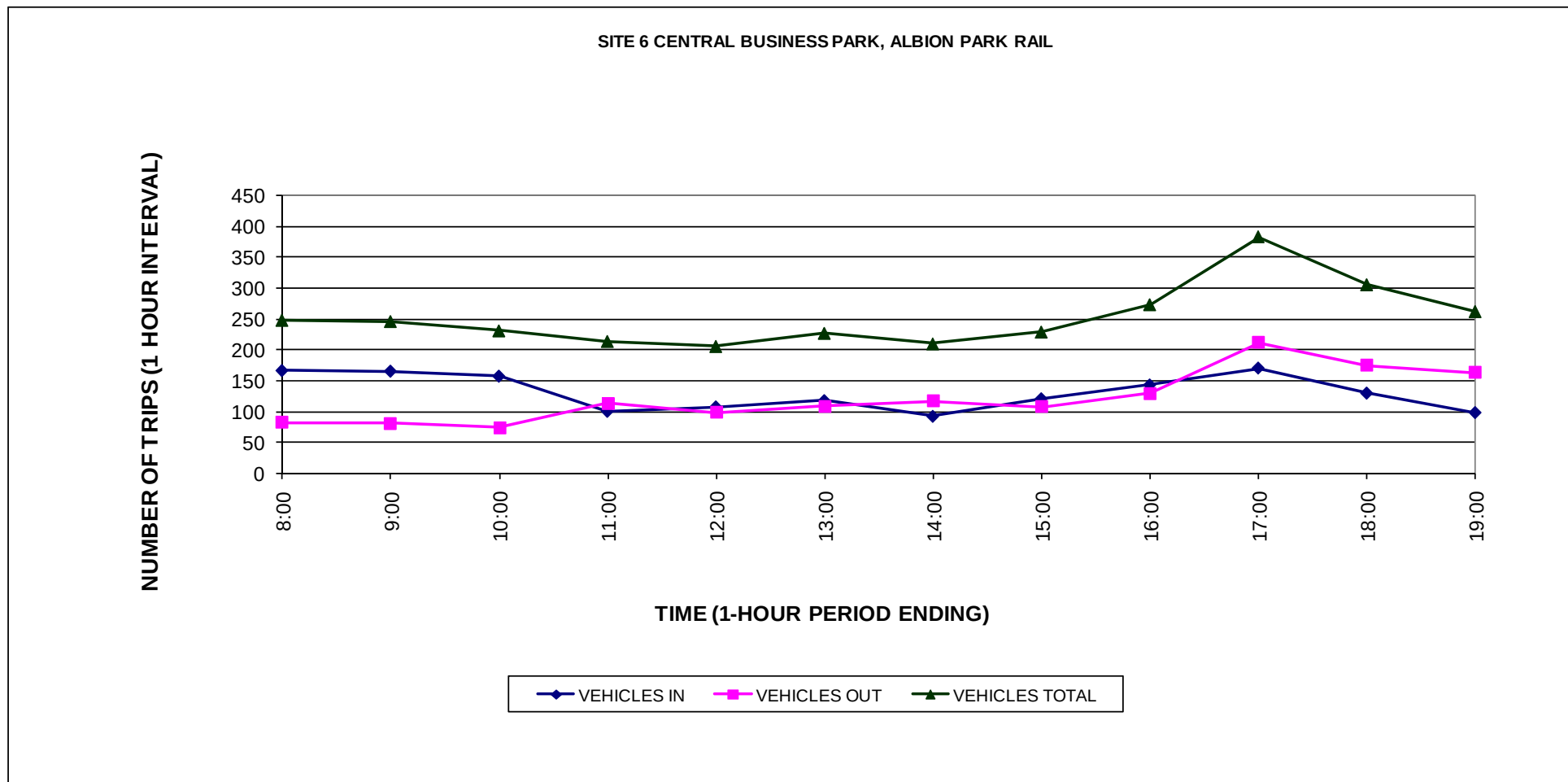


Figure 3.29 Site 6 – Hourly trip distribution - vehicles.

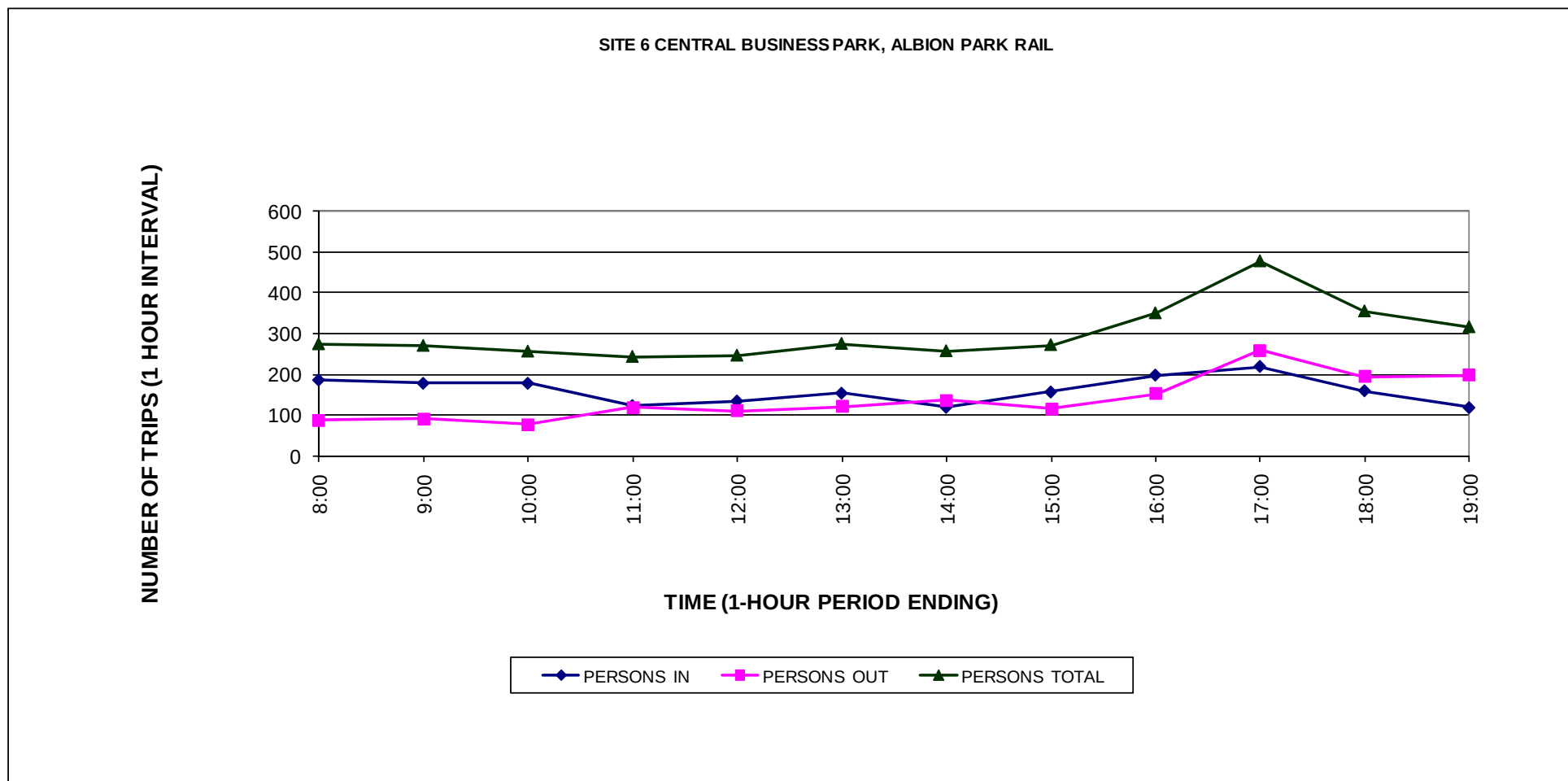


Figure 3.30 Site 6 – Hourly trip distribution - persons.

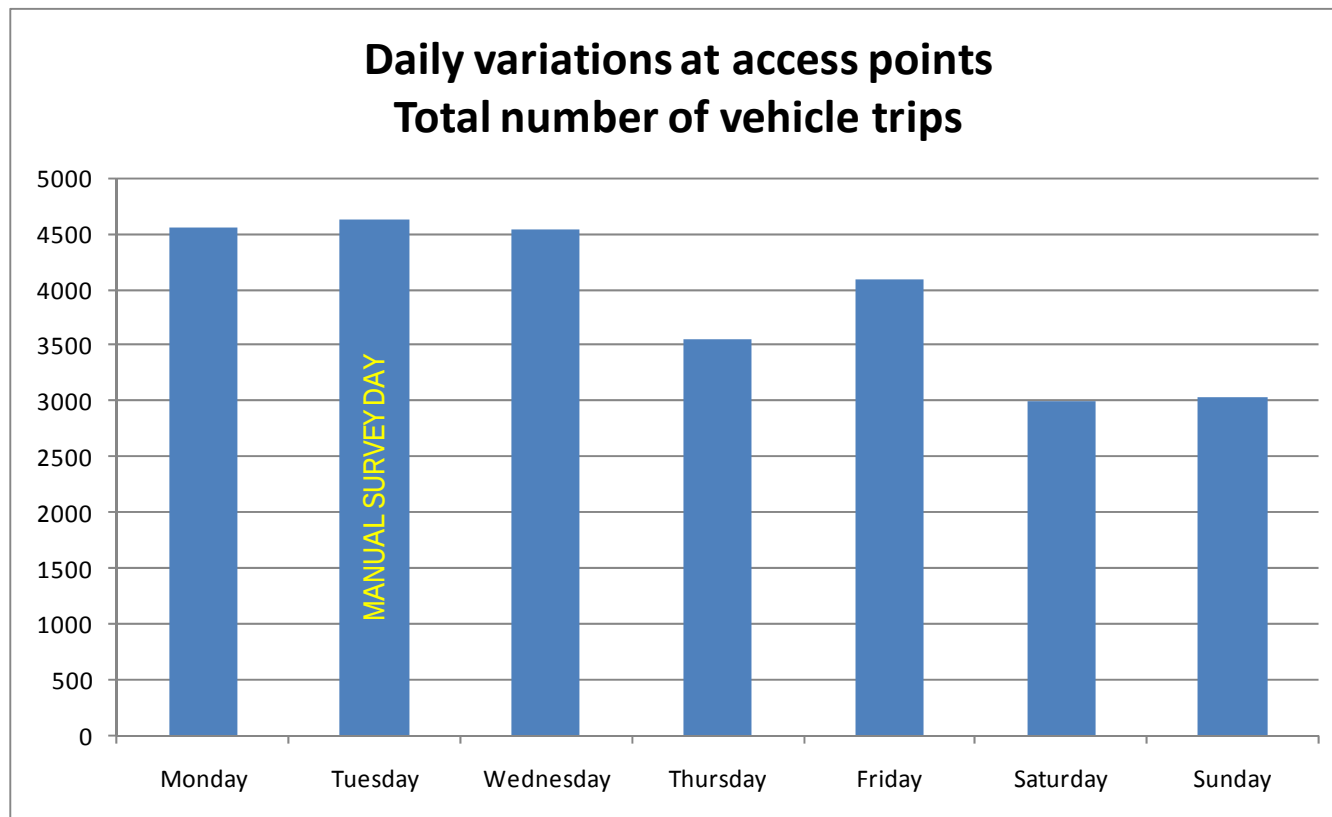


Figure 3.31 Site 6 – Daily trip distribution - vehicles.

Site 7 Anambah Business Park, Rutherford

Table 3.38 Site 7 - Survey Results – 15-minute interval data

DATE 02 May 2012 15 minute Data		SITE 7 ANAMBAH BUSINESS PARK, RUTHERFORD																												Grand Total		
		Vehicles										Persons																				
		IN					OUT					IN									OUT											
		TRUCKS					TRUCKS					TRUCKS									TRUCKS											
WEATHER Fine	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons		
TIME																																
6:00 to 6:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6:15 to 6:30	23	2	1	0	26	8	2	4	0	14	24	0	2	1	0	0	0	0	0	27	9	0	2	8	0	0	0	0	0	19	40	46
6:30 to 6:45	21	1	0	0	22	2	0	0	0	2	22	0	1	0	0	0	0	0	0	23	2	0	0	0	0	0	0	0	0	24	25	
6:45 to 7:00	34	2	0	0	36	6	0	1	0	7	37	0	2	0	0	0	0	0	0	39	8	0	0	1	0	0	0	0	0	43	48	
7:00 to 7:15	19	4	0	0	23	3	2	0	0	5	20	0	4	0	0	0	0	0	0	24	4	0	2	0	0	0	0	0	0	28	30	
7:15 to 7:30	15	1	0	0	16	6	2	0	0	8	17	0	1	0	0	0	0	0	18	6	0	2	0	0	0	0	0	0	0	24	26	
7:30 to 7:45	22	2	0	0	24	4	4	1	0	9	24	0	3	0	0	0	0	0	0	27	4	0	7	1	0	0	0	0	0	33	39	
7:45 to 8:00	18	3	0	0	21	7	1	0	0	8	19	0	3	0	0	0	0	0	22	7	0	1	0	0	0	0	0	0	0	29	30	
8:00 to 8:15	20	0	1	0	21	4	3	0	0	7	20	0	1	0	0	0	0	0	21	4	0	3	0	0	0	0	0	0	0	28	28	
8:15 to 8:30	13	2	0	1	16	5	1	1	0	7	16	0	2	0	0	0	0	3	1	22	6	0	1	1	0	0	2	0	10	23	32	
8:30 to 8:45	10	3	0	0	13	4	3	1	0	8	10	0	4	0	0	0	0	0	14	4	0	3	1	0	0	0	0	0	0	21	22	
8:45 to 9:00	20	5	1	0	26	9	4	0	0	13	20	0	6	1	0	0	0	0	27	10	0	4	0	0	0	0	0	0	0	39	41	
9:00 to 9:15	14	3	2	0	19	8	3	0	0	11	19	0	3	2	0	0	0	0	24	10	0	3	0	0	0	0	0	1	14	30	38	
9:15 to 9:30	14	4	0	0	18	9	2	2	0	13	16	0	4	0	0	0	0	0	20	12	0	2	3	0	0	0	0	0	0	31	37	
9:30 to 9:45	23	3	0	0	26	16	3	0	0	19	27	0	3	0	0	0	0	0	30	19	0	3	0	0	0	0	0	0	0	45	52	
9:45 to 10:00	11	5	0	0	16	15	5	0	0	20	12	0	5	0	0	0	0	0	17	16	0	5	0	0	0	0	0	0	0	36	38	
10:00 to 10:15	5	9	0	0	14	14	2	0	0	16	6	0	10	0	0	0	0	0	16	16	0	2	0	0	0	0	0	0	0	18	30	34
10:15 to 10:30	11	1	1	0	13	10	6	0	0	16	11	0	1	1	0	0	0	0	13	13	0	6	0	0	0	0	0	1	20	29	33	
10:30 to 10:45	11	3	0	0	14	8	7	0	0	15	11	0	3	0	0	0	0	0	14	8	0	8	0	0	0	0	0	0	0	16	29	30
10:45 to 11:00	9	3	0	0	12	11	4	1	0	16	9	0	3	0	0	0	0	0	12	16	0	4	1	0	0	0	0	0	0	21	28	33
11:00 to 11:15	13	3	1	0	17	11	3	0	0	14	16	0	3	2	0	0	0	0	21	15	0	4	0	0	0	0	0	0	0	31	40	
11:15 to 11:30	11	4	0	0	15	10	3	0	0	13	11	0	4	0	0	0	0	0	15	13	0	4	0	0	0	0	0	0	0	17	28	32
11:30 to 11:45	13	4	0	0	17	13	2	1	0	16	14	0	4	0	0	0	0	1	19	16	0	3	1	0	0	0	0	0	0	20	33	39
11:45 to 12:00	9	1	0	0	10	13	3	0	0	16	11	0	1	0	0	0	0	0	12	16	0	3	0	0	0	0	0	0	0	19	26	31
12:00 to 12:15	23	0	0	0	23	26	2	2	0	30	30	0	0	0	0	0	0	0	30	32	0	2	2	0	0	0	0	0	0	36	53	66
12:15 to 12:30	10	2	0	0	12	18	2	1	0	21	10	0	3	0	0	0	0	0	13	21	0	2	1	0	0	0	2	0	0	26	33	39
12:30 to 12:45	14	2	0	0	16	22	0	0	0	22	18	0	2	0	0	0	0	0	20	32	0	0	0	0	0	0	0	0	0	32	38	52
12:45 to 13:00	25	2	1	0	28	26	5	0	0	31	33	0	2	1	0	0	0	0	36	35	0	5	0	0	0	0	0	0	0	40	59	76
13:00 to 13:15	22	2	0	0	24	14	2	0	0	16	20	0	2	0	0	0	0	0	31	19	0	2	0	0	0	0	0	0	0	21	40	52
13:15 to 13:30	20	9	1	0	30	8	4	0	0	12	25	0	9	1	0	0	0	1	36	9	0	4	0	0	0	0	0	1	14	42	50	
13:30 to 13:45	14	4	0	0	18	19	4	0	0	23	20	0	5	0	0	0	0	0	25	31	0	5	0	0	0	0	0	0	0	36	41	61
13:45 to 14:00	10	3	0	0	13	9	4	0	0	13	11	0	3	0	0	0	0	0	14	10	0	4	0	0	0	0	0	0	0	14	26	28
14:00 to 14:15	3	2	1	0	6	6	1	0	0	7	4	0	2	1	0	0	0	0	7	7	0	1	0	0	0	0	0	0	0	8	13	15
14:15 to 14:30	16	3	0	0	19	16	5	0	0	21	22	0	3	0	0	0	0	0	25	20	0	5	0	0	0	0	0	0	0	25	40	50
14:30 to 14:45	7	4	0	0	11	23	1	0	0	24	9	0	4	0	0	0	0	0	13	26	0	1	0	1	0	0	0	0	0	28	35	41
14:45 to 15:00	16	2	0	0	18	14	2	2	0	18	23	0	2	0	0	0	0	0	25	15	0	2	3	1	0	0	1	0	22	36	47	
15:00 to 15:15	8	4	0	0	12	17	7	0	0	24	8	0	5	0	0	0	0	0	13	18	0	7	0	0	0	0	0	0	0	25	36	38
15:15 to 15:30	12	5	0	0	17	18	2	0	0	20	17	0	5	0	0	0	0	0	22	23	0	2	0	0	0	0	0	0	0	25	37	47
15:30 to 15:45	12	2	0	0	14	36	4	0	0	40	18	0	3	0	0	0	0	0	21	41	0	4	0	0	0	0	0	0	0	45	54	66
15:45 to 16:00	15	0	2	0	17	29	0	0	0	29	18	0	0	2	0	0	0	0	20	33	0	0	0	0	0	0	0	0	0	33	46	53
16:00 to 16:15	3	0	0	0	3	25	0	0	0	25	4	0	0	0	0	0	0	0	4	30	0	0	0	0	0	0	0	0	0	30	28	34
16:15 to 16:30	10	1	0	0	11	23	1	0	0	24	11	0	1	0	0	0	0	0	12	29	0	1	0	1	0	0	0	0	0	31	35	43
16:30 to 16:45	9	2	0	0	11	18	3	0	0	21	16	0	2	0	0	0	0	0	18	25	0	3	0	0	0	0	0	0	0	28	32	46
16:45 to 17:00	7	0	0	0	7	25	0	0	0	25	7	0	0	0	0	0	0	0	7	30	0	0	0	0	0	0	0	0	0	30	32	37
17:00 to 17:15	3	0	0	0	3	33	2	0	0	35	4	0	0	0	0	0	0	0	4	37	0	4	0	0	0	0	1	0	0	38	46	46
17:15 to 17:30	3	0	0	0	3	14	1	1	0	16	3	0	0	0	0	0	0	0	3	15	0	1	1	0	0	0	2	0	19	19	22	
17:30 to 17:45	1	0	0	0	1	17	3	0	0	20	1	0	0	0	0	0	0	0	1	18	0	3	0	0	0	0	0	0	0	21	21	22
17:45 to 18:00	4	0	0	0	4	14	0	0	0	14	4	0	0	0	0	0	0	0	4	16	0	0	0	0	0	0	0	0	0	16	18	20
18:00 to 18:15	1	0	0	0	1	14	0	0	0	14	2	0	0	0	0	0	0	0	2	14	0	0	0	0	0	0	0	0	0	14	15	16
18:15 to 18:30	1	0	0	0	1	10	1	0	0	11	1	0	0	0	0	0	0	0	1	13	0	1	0	0	0	0	0	0	0	14	12	15
18:30 to 18:45	1	0	0	0	1	7	1	0	0	8	1	0	0	0	0	0	0	0	1	7	0	1	0	0	0	0	0	0	0	8	9	9
18:45 to 19:00	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	3	3
TOTAL	629	117	12	1	759	700	122	18	0	840	741	0	125	13	0	0	0	3	3	885	843	0	132	24	3	0	8	3	1013	1599	1898	

Table 3.39 Site 7 - Survey Results – Hourly data - rolling at 15 minute intervals

DATE 02 May 2012		SITE 7 ANAMBAH BUSINESS PARK, RUTHERFORD																														Grand Total	
1-hour Data		Vehicles										Persons										1-hour Data											
WEATHER Fine		IN					OUT					IN												OUT									
TIME		TRUCKS			Buses	Total	TRUCKS			Buses	Total	By car	By bus	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total		
		Cars	Rigid	Artic.			Cars	Rigid	Artic.					Cars	Rigid	Artic.								By rigid	By artic.	By rigid						By artic.	By rigid
6:00	to 7:00	78	5	1	0	84	16	2	5	0	23	83	0	5	1	0	0	0	0	0	89	19	0	2	9	0	0	0	0	0	0	30	
6:15	to 7:15	97	9	1	0	107	19	4	5	0	28	103	0	9	1	0	0	0	0	0	113	23	0	4	9	0	0	0	0	0	0	36	
6:30	to 7:30	89	8	0	0	97	17	4	1	0	22	96	0	8	0	0	0	0	0	0	104	20	0	4	1	0	0	0	0	0	0	25	
6:45	to 7:45	90	9	0	0	99	19	8	2	0	29	98	0	10	0	0	0	0	0	0	108	22	0	11	2	0	0	0	0	0	0	35	
7:00	to 8:00	74	10	0	0	84	20	9	1	0	30	80	0	11	0	0	0	0	0	0	91	21	0	12	1	0	0	0	0	0	34		
7:15	to 8:15	75	6	1	0	82	21	10	1	0	32	80	0	7	1	0	0	0	0	0	88	21	0	13	1	0	0	0	0	0	35		
7:30	to 8:30	73	7	1	1	82	20	9	2	0	31	79	0	8	1	0	0	3	1	92	21	0	12	2	0	0	2	0	2	0	37		
7:45	to 8:45	61	8	1	1	71	20	8	2	0	30	65	0	9	1	0	0	3	1	79	21	0	8	2	0	0	2	0	2	0	33		
8:00	to 9:00	63	10	2	1	76	22	11	2	0	35	66	0	12	2	0	0	3	1	84	24	0	11	2	0	0	2	0	2	0	39		
8:15	to 9:15	57	13	3	1	74	26	11	2	0	39	65	0	15	3	0	0	3	1	87	30	0	11	2	0	0	2	1	46				
8:30	to 9:30	58	15	3	0	76	30	12	3	0	45	65	0	17	3	0	0	0	0	85	36	0	12	4	0	0	0	1	53				
8:45	to 9:45	71	15	3	0	89	42	12	2	0	56	82	0	16	3	0	0	0	0	101	51	0	12	3	0	0	0	1	67				
9:00	to 10:00	62	15	2	0	79	48	13	2	0	63	74	0	15	2	0	0	0	0	91	57	0	13	3	0	0	0	1	74				
9:15	to 10:15	53	21	0	0	74	54	12	2	0	68	61	0	22	0	0	0	0	0	83	63	0	12	3	0	0	0	0	0	78			
9:30	to 10:30	50	18	1	0	69	55	16	0	0	71	56	0	19	1	0	0	0	0	76	64	0	16	0	0	0	0	1	81				
9:45	to 10:45	38	18	1	0	57	47	20	0	0	67	40	0	19	1	0	0	0	0	60	53	0	21	0	0	0	0	1	75				
10:00	to 11:00	36	16	1	0	53	43	19	1	0	63	37	0	17	1	0	0	0	0	55	53	0	20	1	0	0	0	1	75				
10:15	to 11:15	44	10	2	0	56	40	20	1	0	61	47	0	10	3	0	0	0	0	60	52	0	22	1	0	0	0	1	76				
10:30	to 11:30	44	13	1	0	58	40	17	1	0	58	47	0	13	2	0	0	0	0	62	52	0	20	1	0	0	0	0	73				
10:45	to 11:45	46	14	1	0	61	45	12	2	0	59	50	0	14	2	0	0	0	1	67	60	0	15	2	0	0	0	0	77				
11:00	to 12:00	46	12	1	0	59	47	11	1	0	59	52	0	12	2	0	0	0	1	67	60	0	14	1	0	0	0	0	75				
11:15	to 12:15	56	9	0	0	65	62	10	3	0	75	66	0	9	0	0	0	0	1	76	77	0	12	3	0	0	0	0	92				
11:30	to 12:30	55	7	0	0	62	70	9	4	0	83	65	0	8	0	0	0	0	1	74	85	0	10	4	0	0	2	0	101				
11:45	to 12:45	56	5	0	0	61	79	7	3	0	89	69	0	6	0	0	0	0	0	75	101	0	7	3	0	0	2	0	113				
12:00	to 13:00	72	6	1	0	79	92	9	3	0	104	91	0	7	1	0	0	0	0	99	120	0	9	3	0	0	2	0	134				
12:15	to 13:15	71	8	1	0	80	80	9	1	0	90	90	0	9	1	0	0	0	0	100	107	0	9	1	0	0	2	0	119				
12:30	to 13:30	81	15	2	0	98	70	11	0	0	81	105	0	15	2	0	0	0	1	123	95	0	11	0	0	0	0	1	107				
12:45	to 13:45	81	17	2	0	100	67	15	0	0	82	107	0	18	2	0	0	0	1	128	94	0	16	0	0	0	0	1	111				
13:00	to 14:00	66	18	1	0	85	50	14	0	0	64	85	0	19	1	0	0	0	1	106	69	0	15	0	0	0	0	1	85				
13:15	to 14:15	47	18	2	0	67	42	13	0	0	55	60	0	19	2	0	0	0	1	82	57	0	14	0	0	0	0	1	72				
13:30	to 14:30	43	12	1	0	56	50	14	0	0	64	57	0	13	1	0	0	0	0	71	68	0	15	0	0	0	0	0	83				
13:45	to 14:45	36	12	1	0	49	54	11	0	0	65	46	0	12	1	0	0	0	0	59	63	0	11	0	1	0	0	0	75				
14:00	to 15:00	42	11	1	0	54	59	9	2	0	70	58	0	11	1	0	0	0	0	70	68	0	9	3	2	0	1	0	83				
14:15	to 15:15	47	13	0	0	60	70	15	2	0	87	62	0	14	0	0	0	0	0	76	79	0	15	3	2	0	1	0	100				
14:30	to 15:30	43	15	0	0	58	72	12	2	0	86	57	0	16	0	0	0	0	0	73	82	0	12	3	2	0	1	0	100				
14:45	to 15:45	48	13	0	0	61	85	15	2	0	102	66	0	15	0	0	0	0	0	81	97	0	15	3	1	1	0	1	117				
15:00	to 16:00	47	11	2	0	60	100	13	0	0	113	61	0	13	2	0	0	0	0	76	115	0	13	0	0	0	0	0	128				
15:15	to 16:15	42	7	2	0	51	108	6	0	0	114	57	0	8	2	0	0	0	0	67	127	0	6	0	0	0	0	0	133				
15:30	to 16:30	40	3	2	0	45	113	5	0	0	118	51	0	4	2	0	0	0	0	57	133	0	5	0	1	0	0	0	139				
15:45	to 16:45	37	3	2	0	42	95	4	0	0	99	49	0	3	2	0	0	0	0	54	117	0	4	0	1	0	0	0	122				
16:00	to 17:00	29	3	0	0	32	91	4	0	0	95	38	0	3	0	0	0	0	0	41	114	0	4	0	1	0	0	0	119				
16:15	to 17:15	29	3	0	0	32	99	6	0	0	105	38	0	3	0	0	0	0	0	41	121	0	8	0	1	0	1	0	131				
16:30	to 17:30	22	2	0	0	24	90	6	1	0	97	30	0	2	0	0	0	0	0	32	107	0	8	1	0	0	3	0	119				
16:45	to 17:45	14	0	0	0	14	89	6	1	0	96	15	0	0	0	0	0	0	0	15	100	0	8	1	0	0	3	0	112				
17:00	to 18:00	11	0	0	0	11	78	6	1	0	85	12	0	0	0	0	0	0	0	12	86	0	8	1	0	0	3	0	98				
17:15	to 18:15	9	0	0	0	9	59	4	1	0	64	10	0	0	0	0	0	0	0	10	63	0	4	1	0	0	2	0	70				
17:30	to 18:30	7	0	0	0	7	55	4	0	0	59	8	0	0	0	0	0	0	0	8	61	0	4	0	0	0	0	0	65				
17:45	to 18:45	7	0	0	0	7	45	2	0	0	47	8	0	0	0	0	0	0	0	8	50	0	2	0	0	0	0	0	52				
18:00	to 19:00	3	0	0	0	3	34	2	0	0	36	4	0	0	0	0	0	0	0	4	37	0	2	0	0	0	0	0	39				

Table 3.40 Site 7 - Peak hours

Peak hour	Vehicles										Persons																		
Vehicles	IN					OUT					IN										OUT								
	TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS			
AM	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	
8:45 to 9:45	71	15	3	0	89	42	12	2	0	56	82	0	16	3	0	0	0	0	101	51	0	12	3	0	0	0	1	67	
PM																													
15:00 to 16:00	47	11	2	0	60	100	13	0	0	113	61	0	13	2	0	0	0	0	76	115	0	13	0	0	0	0	0	128	

Peak hour	Vehicles										Persons																		
Persons	IN					OUT					IN										OUT								
	TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS			
AM	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	
8:45 to 9:45	71	15	3	0	89	42	12	2	0	56	82	0	16	3	0	0	0	0	101	51	0	12	3	0	0	0	1	67	
PM																													
15:00 to 16:00	47	11	2	0	60	100	13	0	0	113	61	0	13	2	0	0	0	0	76	115	0	13	0	0	0	0	0	128	

Table 3.41 Site 7 - Hourly data - consecutive

DATE 02 May 2012		SITE 7 ANAMBAH BUSINESS PARK, RUTHERFORD																												Grand Total	
1-hour Data		Vehicles										Persons																		1-hour Data	
WEATHER Fine	TIME	IN					OUT					IN										OUT								Vehicles	Persons
		TRUCKS			Buses	Total	TRUCKS			Buses	Total	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total				
Cars	Rigid	Artic.	Cars	Rigid			Artic.	By car	By bus			By rigid	By artic.	By car						By bus	By rigid	By artic.						By car	By bus	By rigid	By artic.
	6:00 to 7:00	78	5	1	0	84	16	2	5	0	23	83	0	5	1	0	0	0	0	89	19	0	2	9	0	0	0	0	30	107	119
	7:00 to 8:00	74	10	0	0	84	20	9	1	0	30	80	0	11	0	0	0	0	0	91	21	0	12	1	0	0	0	0	34	114	125
	8:00 to 9:00	63	10	2	1	76	22	11	2	0	35	66	0	12	2	0	0	3	1	84	24	0	11	2	0	0	2	0	39	111	123
	9:00 to 10:00	62	15	2	0	79	48	13	2	0	63	74	0	15	2	0	0	0	0	91	57	0	13	3	0	0	0	1	74	142	165
	10:00 to 11:00	36	16	1	0	53	43	19	1	0	63	37	0	17	1	0	0	0	0	55	53	0	20	1	0	0	0	1	75	116	130
	11:00 to 12:00	46	12	1	0	59	47	11	1	0	59	52	0	12	2	0	0	0	1	67	60	0	14	1	0	0	0	0	75	118	142
	12:00 to 13:00	72	6	1	0	79	92	9	3	0	104	91	0	7	1	0	0	0	0	99	120	0	9	3	0	0	2	0	134	183	233
	13:00 to 14:00	66	18	1	0	85	50	14	0	0	64	85	0	19	1	0	0	0	1	106	69	0	15	0	0	0	0	1	85	149	191
	14:00 to 15:00	42	11	1	0	54	59	9	2	0	70	58	0	11	1	0	0	0	0	70	68	0	9	3	2	0	1	0	83	124	153
	15:00 to 16:00	47	11	2	0	60	100	13	0	0	113	61	0	13	2	0	0	0	0	76	115	0	13	0	0	0	0	0	128	173	204
	16:00 to 17:00	29	3	0	0	32	91	4	0	0	95	38	0	3	0	0	0	0	0	41	114	0	4	0	1	0	0	0	119	127	160
	17:00 to 18:00	11	0	0	0	11	78	6	1	0	85	12	0	0	0	0	0	0	0	12	86	0	8	1	0	0	3	0	98	96	110
	18:00 to 19:00	3	0	0	0	3	34	2	0	0	36	4	0	0	0	0	0	0	0	37	0	2	0	0	0	0	0	0	39	39	43
	Total	629	117	12	1	759	700	122	18	0	840	741	0	125	13	0	0	3	3	885	843	0	132	24	3	0	8	3	1013	1599	1898

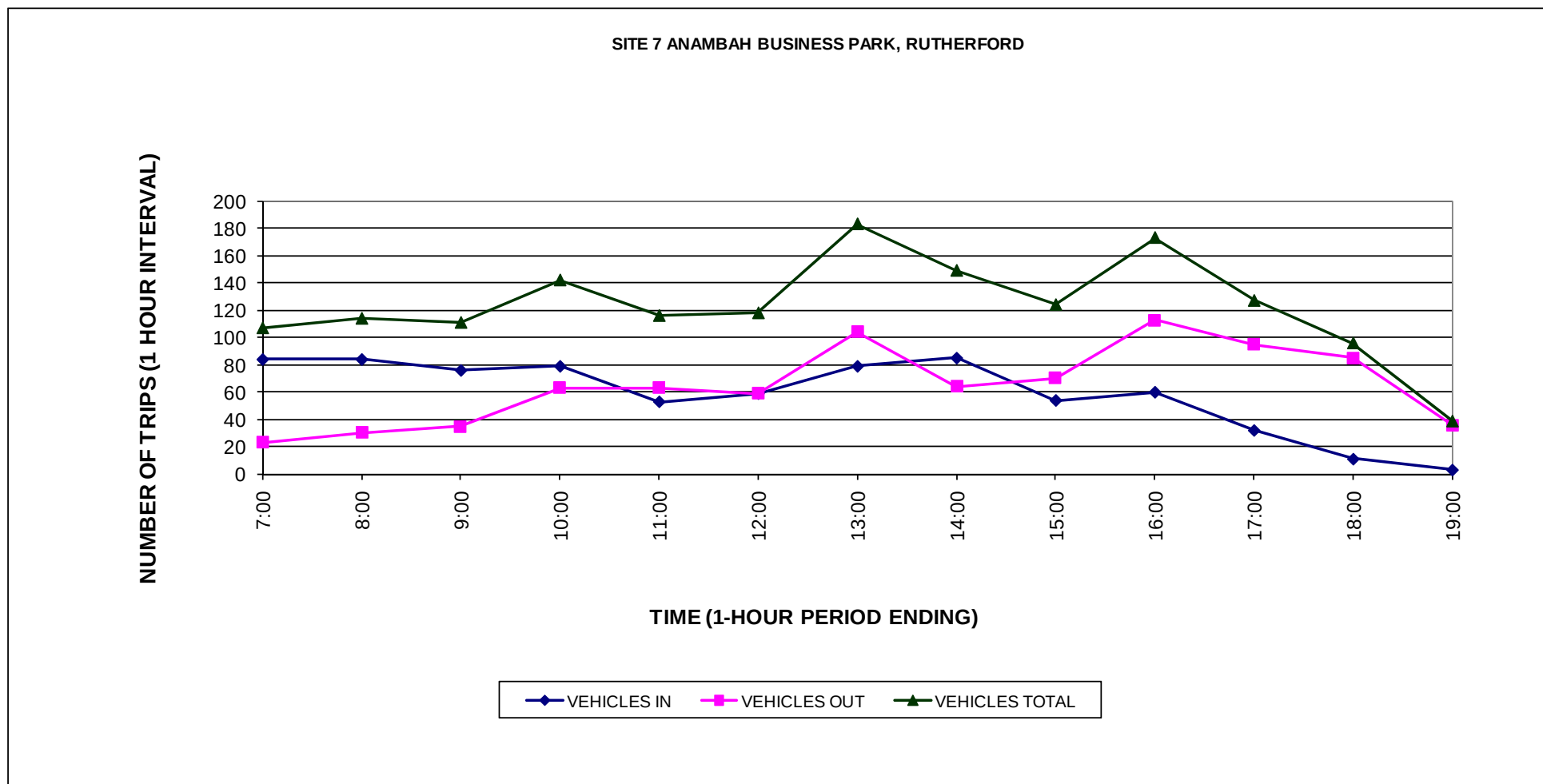


Figure 3.32 Site 7 – Hourly trip distribution - vehicles.

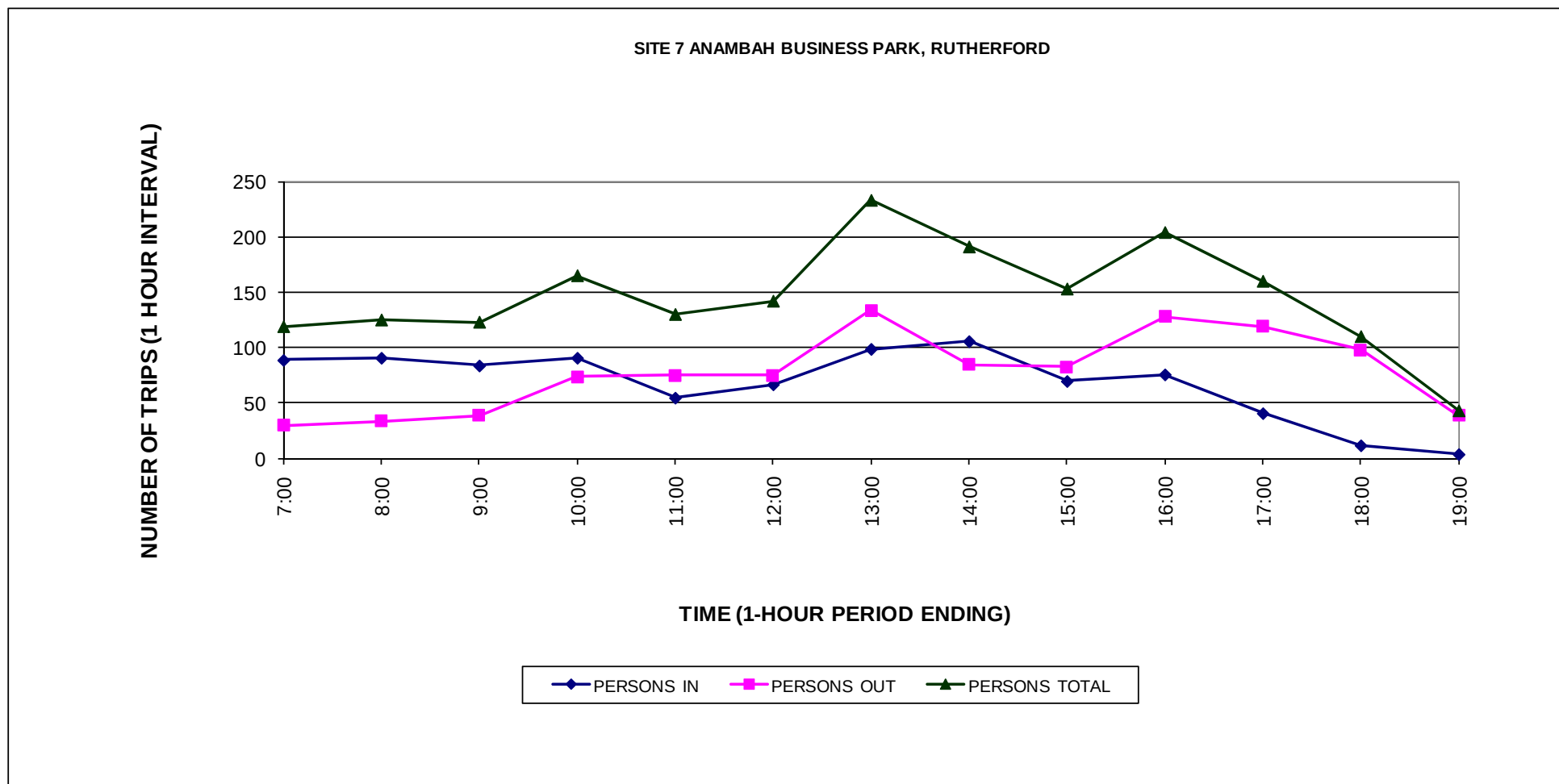


Figure 3.33 Site 7 – Hourly trip distribution - persons.

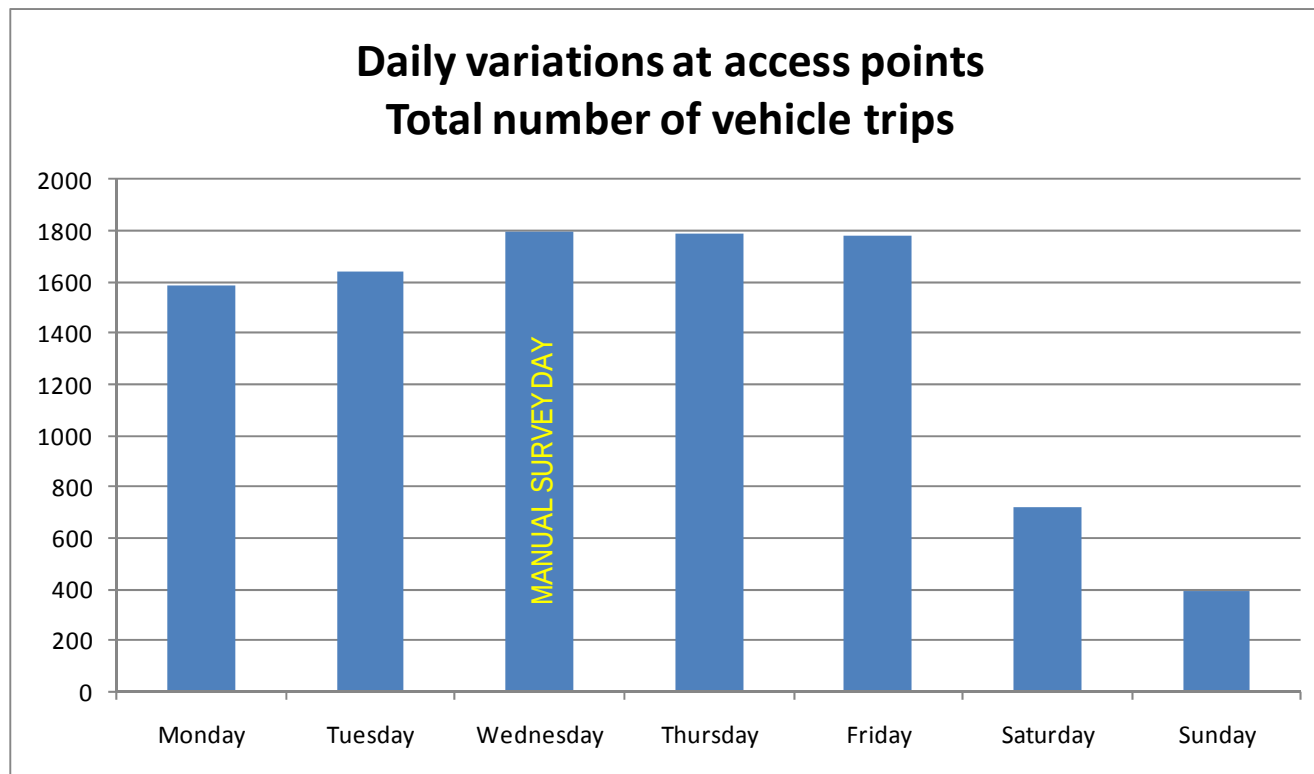


Figure 3.34 Site 7 – Daily trip distribution - vehicles.

3.1.8 Site 8 Freeway Business Park, Beresfield

Table 3.42 Site 8 - Survey Results – 15-minute interval data

DATE 1 May 2012	SITE 8 FREEWAY BUSINESS PARK, BERESFIELD																												Grand Total	
15 minute Data	Vehicles										Persons																		15 minute Data	
WEATHER Fine	IN					OUT					IN										OUT									
		TRUCKS					TRUCKS					TRUCKS									By car	By bus	TRUCKS							
TIME	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons
7:00 to 7:15	74	10	1	0	85	18	9	4	1	32	86	0	10	1	2	1	0	0	100	23	20	11	4	0	0	0	0	58	117	158
7:15 to 7:30	73	11	1	0	85	17	13	1	0	31	80	0	11	2	1	0	0	0	94	23	0	15	1	0	0	0	39	116	133	
7:30 to 7:45	84	5	2	0	91	26	12	1	0	39	85	0	5	4	1	0	0	0	95	29	0	13	1	0	0	0	43	130	138	
7:45 to 8:00	88	3	2	0	93	27	10	2	0	39	93	0	3	2	1	1	0	0	100	34	0	10	2	0	0	0	46	132	146	
8:00 to 8:15	86	5	1	0	92	22	11	1	0	34	89	0	6	1	2	0	0	0	98	24	0	12	1	0	0	0	37	126	135	
8:15 to 8:30	76	4	1	0	81	18	4	2	0	24	81	0	4	1	2	0	0	0	88	24	0	6	2	0	0	0	32	105	120	
8:30 to 8:45	67	5	1	0	73	35	10	0	0	45	70	0	5	1	0	0	0	0	76	39	0	11	0	0	0	0	50	118	126	
8:45 to 9:00	66	10	2	0	78	18	6	0	0	24	70	0	10	2	0	0	0	0	82	20	0	8	0	0	0	0	28	102	110	
9:00 to 9:15	64	4	2	0	70	34	8	3	0	45	81	0	4	3	0	0	0	0	88	41	0	8	4	0	0	0	53	115	141	
9:15 to 9:30	49	13	2	0	64	33	15	2	0	50	55	0	17	2	0	0	0	1	75	37	0	16	2	0	0	0	55	114	130	
9:30 to 9:45	31	10	1	0	42	36	14	1	0	51	37	0	11	1	0	0	0	0	49	40	0	15	1	0	0	0	56	93	105	
9:45 to 10:00	22	6	0	0	28	39	7	2	0	48	23	0	7	0	1	0	0	0	31	45	0	10	2	0	0	0	57	76	88	
10:00 to 10:15	27	7	0	0	34	23	8	3	0	34	29	0	8	0	0	0	0	0	37	28	0	8	3	0	0	0	39	68	76	
10:15 to 10:30	24	11	1	0	36	31	11	0	0	42	26	0	14	1	0	0	0	0	41	37	0	11	0	0	1	0	49	78	90	
10:30 to 10:45	21	13	2	0	36	27	7	1	0	35	21	0	14	2	0	0	0	0	37	29	0	8	1	0	0	0	38	71	75	
10:45 to 11:00	34	9	1	2	46	31	9	2	0	42	38	2	10	1	0	0	0	0	51	36	0	10	3	0	0	0	49	88	100	
11:00 to 11:15	23	7	0	0	30	31	8	3	1	43	26	0	9	0	0	0	0	0	35	36	40	9	4	0	0	0	89	73	124	
11:15 to 11:30	31	8	0	0	39	41	10	1	0	52	36	0	10	0	0	0	0	0	46	53	0	15	1	0	0	0	69	91	115	
11:30 to 11:45	14	7	0	0	21	43	12	1	0	56	16	0	7	0	0	0	0	0	23	54	0	12	1	0	0	0	67	77	90	
11:45 to 12:00	27	4	2	0	33	38	13	0	0	51	30	0	5	3	0	0	0	0	38	44	0	16	0	0	0	0	60	84	98	
12:00 to 12:15	30	9	2	0	41	34	8	1	0	43	36	0	12	2	0	0	0	0	50	42	0	8	1	0	0	0	51	84	101	
12:15 to 12:30	39	9	5	0	53	42	9	2	0	53	45	0	10	6	1	0	0	0	62	51	0	9	2	0	0	0	62	106	124	
12:30 to 12:45	25	2	4	0	31	50	11	2	0	63	29	0	4	9	0	0	0	0	42	67	0	14	2	0	0	0	83	94	125	
12:45 to 13:00	31	18	4	0	53	35	9	3	0	47	35	0	19	4	0	0	0	0	58	41	0	10	3	0	0	0	54	100	112	
13:00 to 13:15	29	7	2	1	39	30	15	0	0	45	34	20	7	3	0	0	0	0	64	34	0	16	0	1	0	0	51	84	115	
13:15 to 13:30	34	11	3	0	48	42	7	1	1	51	37	0	13	3	0	0	0	0	53	49	1	8	1	0	0	0	59	99	112	
13:30 to 13:45	37	9	1	0	47	37	13	4	0	54	41	0	9	1	1	0	0	0	52	44	0	13	4	0	0	0	61	101	113	
13:45 to 14:00	22	8	1	0	31	26	8	0	0	34	24	0	8	1	0	0	0	0	33	32	0	8	0	0	0	0	40	65	73	
14:00 to 14:15	34	8	1	0	43	45	8	5	0	58	40	0	10	1	0	0	0	0	51	51	0	9	5	0	1	0	66	101	117	
14:15 to 14:30	29	5	4	0	38	34	7	0	0	41	31	0	5	5	0	0	0	0	41	41	0	7	0	0	1	0	49	79	90	
14:30 to 14:45	28	8	7	0	43	47	16	1	0	64	29	0	12	11	1	0	0	0	53	50	0	23	1	0	0	0	74	107	127	
14:45 to 15:00	44	9	1	0	54	27	7	2	0	36	51	0	10	2	0	0	0	0	63	31	0	10	2	0	0	0	43	90	106	
15:00 to 15:15	32	11	1	0	44	50	11	4	0	65	45	0	16	2	1	0	0	0	64	57	0	11	4	0	1	0	73	109	137	
15:15 to 15:30	26	10	2	0	38	36	6	1	0	43	27	0	18	4	0	0	0	0	49	42	0	7	1	0	0	0	50	81	99	
15:30 to 15:45	32	5	0	0	37	110	8	2	0	120	39	0	7	0	0	0	0	0	46	126	0	8	2	1	0	0	137	157	183	
15:45 to 16:00	19	10	2	0	31	73	6	0	0	79	26	0	11	2	0	0	0	0	39	81	0	6	0	1	0	0	88	110	127	
16:00 to 16:15	11	7	0	0	18	101	7	0	0	108	15	0	10	0	0	0	0	0	25	112	0	7	0	1	1	0	121	126	146	
16:15 to 16:30	13	6	0	0	19	62	5	1	1	69	13	0	7	0	0	0	0	0	20	69	1	6	1	1	0	0	78	88	98	
16:30 to 16:45	21	3	1	0	25	113	2	1	0	116	27	0	3	2	0	0	0	0	32	130	0	2	1	0	3	0	136	141	168	
16:45 to 17:00	13	0	0	1	14	60	5	0	1	66	13	30	0	0	0	0	0	0	43	67	1	5	0	0	3	0	76	80	119	
17:00 to 17:15	10	1	2	0	13	111	5	0	0	116	14	0	2	3	1	0	0	0	20	118	0	9	0	0	1	0	128	129	148	
17:15 to 17:30	9	0	0	0	9	79	0	1	0	80	14	0	0	0	0	0	0	0	14	82	0	0	1	0	1	0	84	89	98	
17:30 to 17:45	14	1	0	0	15	67	3	1	0	71	15	0	1	0	0	0	0	0	16	77	0	3	1	0	1	0	82	86	98	
17:45 to 18:00	5	2	0	0	7	41	2	0	0	43	5	0	2	0	0	0	0	0	7	41	0	2	0	0	2	0	45	50	52	
18:00 to 18:15	12	2	0	0	14	30	0	0	0	30	17	0	3	0	0	0	0	0	20	35	0	0	0	0	0	0	35	44	55	
18:15 to 18:30	5	0	0	0	5	23	0	0	0	23	8	0	0	0	0	0	0	0	8	26	0	0	0	0	0	0	26	28	34	
18:30 to 18:45	3	3	1	0	7	12	2	0	0	14	3	0	3	1	0	0	0	0	7	14	0	2	0	1	0	0	17	21	24	
18:45 to 19:00	3	0	0	0	3	6	0	0	0	6	5	0	0	0	0	0	0	0	5	6	0	0	0	0	0	0	6	9	11	
TOTAL	1591	316	66	4	1977	2011	377	62	5	2455	1790	52	372	89	15	2	0	1	2321	2312	63	427	65	6	16	0	0	2889	4432	5210

Table 3.43 Site 8 - Survey Results – Hourly data - rolling at 15 minute intervals

DATE 1 May 2012 1-hour Data WEATHER Fine		SITE 8 FREEWAY BUSINESS PARK, BERESFIELD																												Grand Total 1-hour Data	
		Vehicles										Persons																			
		IN					OUT					IN									OUT										
		TRUCKS					TRUCKS					By car	By bus	TRUCKS	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	TRUCKS	By rigid	By artic.	Bikes	Motorbikes	Pedestrians		
TIME	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons	
7:00 to 8:00	319	29	6	0	354	88	44	8	1	141	344	0	29	9	5	2	0	0	389	109	20	49	8	0	0	0	0	0	186	495	575
7:15 to 8:15	331	24	6	0	361	92	46	5	0	143	347	0	25	9	5	1	0	0	387	110	0	50	5	0	0	0	0	0	165	504	552
7:30 to 8:30	334	17	6	0	357	93	37	6	0	136	348	0	18	8	6	1	0	0	381	111	0	41	6	0	0	0	0	0	158	493	539
7:45 to 8:45	317	17	5	0	339	102	35	5	0	142	333	0	18	5	5	1	0	0	362	121	0	39	5	0	0	0	0	0	165	481	527
8:00 to 9:00	295	24	5	0	324	93	31	3	0	127	310	0	25	5	4	0	0	0	344	107	0	37	3	0	0	0	0	0	147	451	491
8:15 to 9:15	273	23	6	0	302	105	28	5	0	138	302	0	23	7	2	0	0	0	334	124	0	33	6	0	0	0	0	0	163	440	497
8:30 to 9:30	246	32	7	0	285	120	39	5	0	164	276	0	36	8	0	0	0	1	321	137	0	43	6	0	0	0	0	0	186	449	507
8:45 to 9:45	210	37	7	0	254	121	43	6	0	170	243	0	42	8	0	0	0	1	294	138	0	47	7	0	0	0	0	0	192	424	486
9:00 to 10:00	166	33	5	0	204	142	44	8	0	194	196	0	39	6	1	0	0	1	243	163	0	49	9	0	0	0	0	0	221	398	464
9:15 to 10:15	129	36	3	0	168	131	44	8	0	183	144	0	43	3	1	0	0	1	192	150	0	49	8	0	0	0	0	0	207	351	399
9:30 to 10:30	104	34	2	0	140	129	40	6	0	175	115	0	40	2	1	0	0	0	158	150	0	44	6	0	1	0	0	0	201	315	359
9:45 to 10:45	94	37	3	0	134	120	33	6	0	159	99	0	43	3	1	0	0	0	146	139	0	37	6	0	1	0	0	0	183	293	329
10:00 to 11:00	106	40	4	2	152	112	35	6	0	153	114	2	46	4	0	0	0	0	166	130	0	37	7	0	1	0	0	0	175	305	341
10:15 to 11:15	102	40	4	2	148	120	35	6	1	162	111	2	47	4	0	0	0	0	164	138	40	38	8	0	1	0	0	0	225	310	389
10:30 to 11:30	109	37	3	2	151	130	34	7	1	172	121	2	43	3	0	0	0	0	169	154	40	42	9	0	0	0	0	0	245	323	414
10:45 to 11:45	102	31	1	2	136	146	39	7	1	193	116	2	36	1	0	0	0	0	155	179	40	46	9	0	0	0	0	0	274	329	429
11:00 to 12:00	95	26	2	0	123	153	43	5	1	202	108	0	31	3	0	0	0	0	142	187	40	52	6	0	0	0	0	0	285	325	427
11:15 to 12:15	102	28	4	0	134	156	43	3	0	202	118	0	34	5	0	0	0	0	157	193	0	51	3	0	0	0	0	0	247	336	404
11:30 to 12:30	110	29	9	0	148	157	42	4	0	203	127	0	34	11	1	0	0	0	173	191	0	45	4	0	0	0	0	0	240	351	413
11:45 to 12:45	121	24	13	0	158	164	41	5	0	210	140	0	31	20	1	0	0	0	192	204	0	47	5	0	0	0	0	0	256	368	448
12:00 to 13:00	125	38	15	0	178	161	37	8	0	206	145	0	45	21	1	0	0	0	212	201	0	41	8	0	0	0	0	0	250	384	462
12:15 to 13:15	124	36	15	1	176	157	44	7	0	208	143	20	40	22	1	0	0	0	226	193	0	49	7	1	0	0	0	0	250	384	476
12:30 to 13:30	119	38	13	1	171	157	42	6	1	206	135	20	43	19	0	0	0	0	217	191	1	48	6	1	0	0	0	0	247	377	464
12:45 to 13:45	131	45	10	1	187	144	44	8	1	197	147	20	48	11	1	0	0	0	227	168	1	47	8	1	0	0	0	0	225	384	452
13:00 to 14:00	122	35	7	1	165	135	43	5	1	184	136	20	37	8	1	0	0	0	202	159	1	45	5	1	0	0	0	0	211	349	413
13:15 to 14:15	127	36	6	0	169	150	36	10	1	197	142	0	40	6	1	0	0	0	189	176	1	38	10	0	1	0	0	0	226	366	415
13:30 to 14:30	122	30	7	0	159	142	36	9	0	187	136	0	32	8	1	0	0	0	177	168	0	37	9	0	2	0	0	0	216	346	393
13:45 to 14:45	113	29	13	0	155	152	39	6	0	197	124	0	35	18	1	0	0	0	178	174	0	47	6	0	2	0	0	0	229	352	407
14:00 to 15:00	135	30	13	0	178	153	38	8	0	199	151	0	37	19	1	0	0	0	208	173	0	49	8	0	2	0	0	0	232	377	440
14:15 to 15:15	133	33	13	0	179	158	41	7	0	206	156	0	43	20	2	0	0	0	221	179	0	51	7	0	2	0	0	0	239	385	460
14:30 to 15:30	130	38	11	0	179	160	40	8	0	208	152	0	56	19	2	0	0	0	229	180	0	51	8	0	1	0	0	0	240	387	469
14:45 to 15:45	134	35	4	0	173	223	32	9	0	264	162	0	51	8	1	0	0	0	222	256	0	36	9	1	1	0	0	0	303	437	525
15:00 to 16:00	109	36	5	0	150	269	31	7	0	307	137	0	52	8	1	0	0	0	198	306	0	32	7	2	1	0	0	0	348	457	546
15:15 to 16:15	88	32	4	0	124	320	27	3	0	350	107	0	46	6	0	0	0	0	159	361	0	28	3	3	1	0	0	0	396	474	555
15:30 to 16:30	75	28	2	0	105	346	26	3	1	376	93	0	35	2	0	0	0	0	130	388	1	27	3	4	1	0	0	0	424	481	554
15:45 to 16:45	64	26	3	0	93	349	20	2	1	372	81	0	31	4	0	0	0	0	116	392	1	21	2	3	4	0	0	0	423	465	539
16:00 to 17:00	58	16	1	1	76	336	19	2	2	359	68	30	20	2	0	0	0	0	120	378	2	20	2	2	7	0	0	0	411	435	531
16:15 to 17:15	57	10	3	1	71	346	17	2	2	367	67	30	12	5	1	0	0	0	115	384	2	22	2	1	7	0	0	0	418	438	533
16:30 to 17:30	53	4	3	1	61	363	12	2	1	378	68	30	5	5	1	0	0	0	109	397	1	16	2	0	8	0	0	0	424	439	533
16:45 to 17:45	46	2	2	1	51	317	13	2	1	333	56	30	3	3	1	0	0	0	93	344	1	17	2	0	6	0	0	0	370	384	463
17:00 to 18:00	38	4	2	0	44	298	10	2	0	310	48	0	5	3	1	0	0	0	57	318	0	14	2	0	5	0	0	0	339	354	396
17:15 to 18:15	40	5	0	0	45	217	5	2	0	224	51	0	6	0	0	0	0	0	57	235	0	5	2	0	4	0	0	0	246	269	303
17:30 to 18:30	36	5	0	0	41	161	5	1	0	167	45	0	6	0	0	0	0	0	51	179	0	5	1	0	3	0	0	0	188	208	239
17:45 to 18:45	25	7	1	0	33	106	4	0	0	110	33	0	8	1	0	0	0	0	42	116	0	4	0	1	2	0	0	0	123	143	165
18:00 to 19:00	23	5	1	0	29	71	2	0	0	73	33	0	6	1	0	0	0	0	40	81	0	2	0	1	0	0	0	0	84	102	124

Table 3.44 Site 8 - Peak hours

Peak hour	Vehicles										Persons																	
Vehicles	IN					OUT					IN										OUT							
	TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS							
AM	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
7:15 to 8:15	331	24	6	0	361	92	46	5	0	143	347	0	25	9	5	1	0	0	0	387	110	0	50	5	0	0	0	165
PM																												
15:30 to 16:30	75	28	2	0	105	346	26	3	1	376	93	0	35	2	0	0	0	0	130	388	1	27	3	4	1	0	0	424
Peak hour	Vehicles										Persons																	
Persons	IN					OUT					IN										OUT							
	TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS							
AM	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
7:00 to 8:00	319	29	6	0	354	88	44	8	1	141	344	0	29	9	5	2	0	0	389	109	20	49	8	0	0	0	0	186
PM																												
15:15 to 16:15	88	32	4	0	124	320	27	3	0	350	107	0	46	6	0	0	0	0	159	361	0	28	3	3	1	0	0	396

Table 3.45 Site 8 - Hourly data - consecutive

DATE 1 May 2012		SITE 8 FREEWAY BUSINESS PARK, BERESFIELD																												Grand Total	
1-hour Data		Vehicles										Persons																		1-hour Data	
WEATHER	FINE	IN					OUT					IN										OUT								Vehicles	Persons
		TRUCKS			Buses	Total	TRUCKS			Buses	Total	TRUCKS					Bikes	Motorbikes	Pedestrians	Other	Total	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total		
TIME	Cars	Rigid	Artic.	Cars			Rigid	Artic.	Cars			Rigid	Artic.	By car	By bus	By rigid						By artic.	Bikes	Motorbikes						Pedestrians	Other
7:00 to 8:00	319	29	6	0	354	88	44	8	1	141	344	0	29	9	5	2	0	0	389	109	20	49	8	0	0	0	0	186	495	575	
8:00 to 9:00	295	24	5	0	324	93	31	3	0	127	310	0	25	5	4	0	0	0	344	107	0	37	3	0	0	0	0	147	451	491	
9:00 to 10:00	166	33	5	0	204	142	44	8	0	194	196	0	39	6	1	0	0	1	243	163	0	49	9	0	0	0	0	221	398	464	
10:00 to 11:00	106	40	4	2	152	112	35	6	0	153	114	2	46	4	0	0	0	0	166	130	0	37	7	0	1	0	0	175	305	341	
11:00 to 12:00	95	26	2	0	123	153	43	5	1	202	108	0	31	3	0	0	0	0	142	187	40	52	6	0	0	0	0	285	325	427	
12:00 to 13:00	125	38	15	0	178	161	37	8	0	206	145	0	45	21	1	0	0	0	212	201	0	41	8	0	0	0	0	250	384	462	
13:00 to 14:00	122	35	7	1	165	135	43	5	1	184	136	20	37	8	1	0	0	0	202	159	1	45	5	1	0	0	0	211	349	413	
14:00 to 15:00	135	30	13	0	178	153	38	8	0	199	151	0	37	19	1	0	0	0	208	173	0	49	8	0	2	0	0	232	377	440	
15:00 to 16:00	109	36	5	0	150	269	31	7	0	307	137	0	52	8	1	0	0	0	198	306	0	32	7	2	1	0	0	348	457	546	
16:00 to 17:00	58	16	1	1	76	336	19	2	2	359	68	30	20	2	0	0	0	0	120	378	2	20	2	2	7	0	0	411	435	531	
17:00 to 18:00	38	4	2	0	44	298	10	2	0	310	48	0	5	3	1	0	0	0	57	318	0	14	2	0	5	0	0	339	354	396	
18:00 to 19:00	23	5	1	0	29	71	2	0	0	73	33	0	6	1	0	0	0	0	40	81	0	2	0	1	0	0	0	84	102	124	
Total		1591	316	66	4	1977	2011	377	62	5	2455	1790	52	372	89	15	2	0	1	2321	2312	63	427	65	6	16	0	0	2889	4432	5210

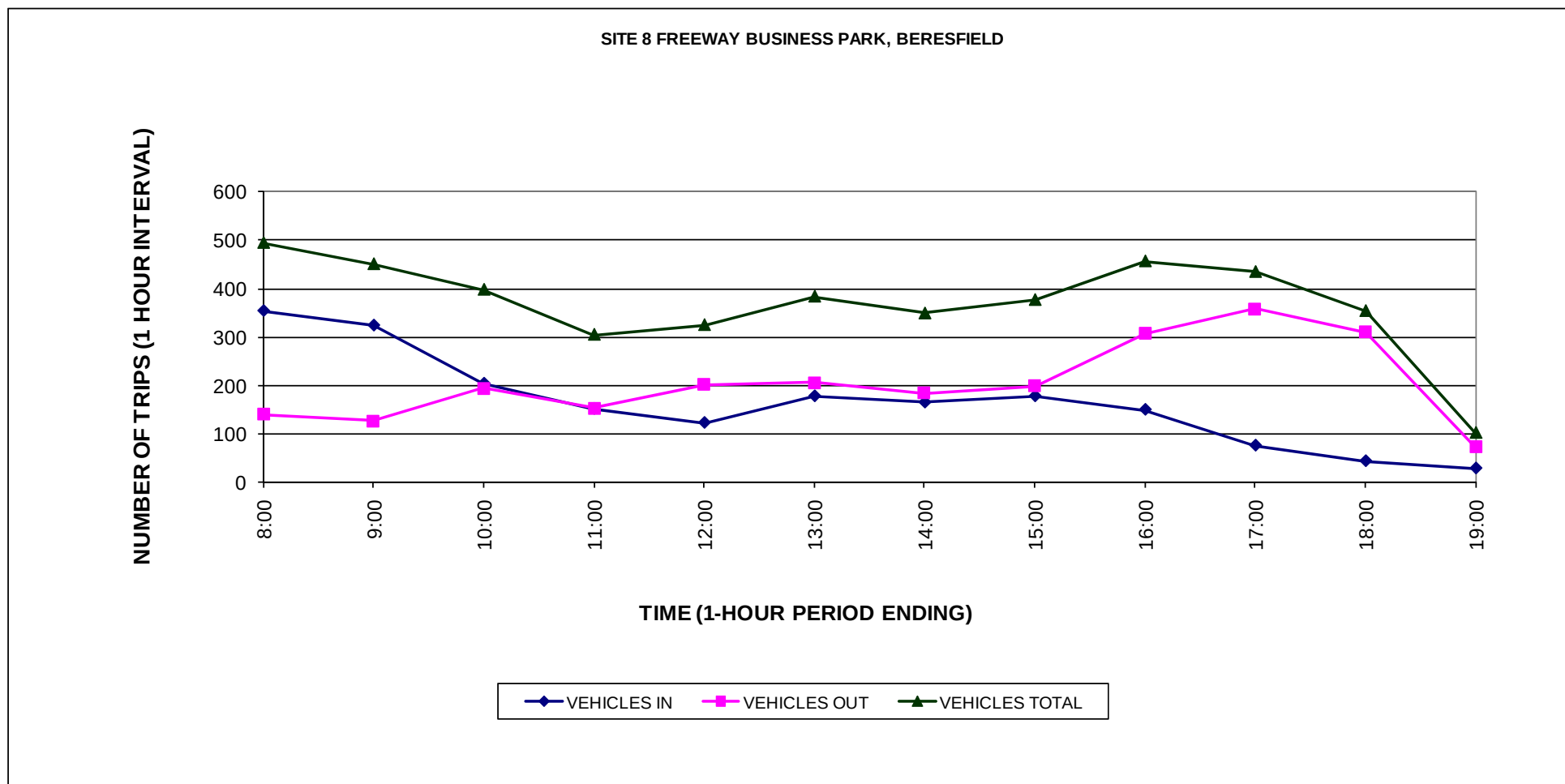


Figure 3.35 Site 8 – Hourly trip distribution - vehicles.

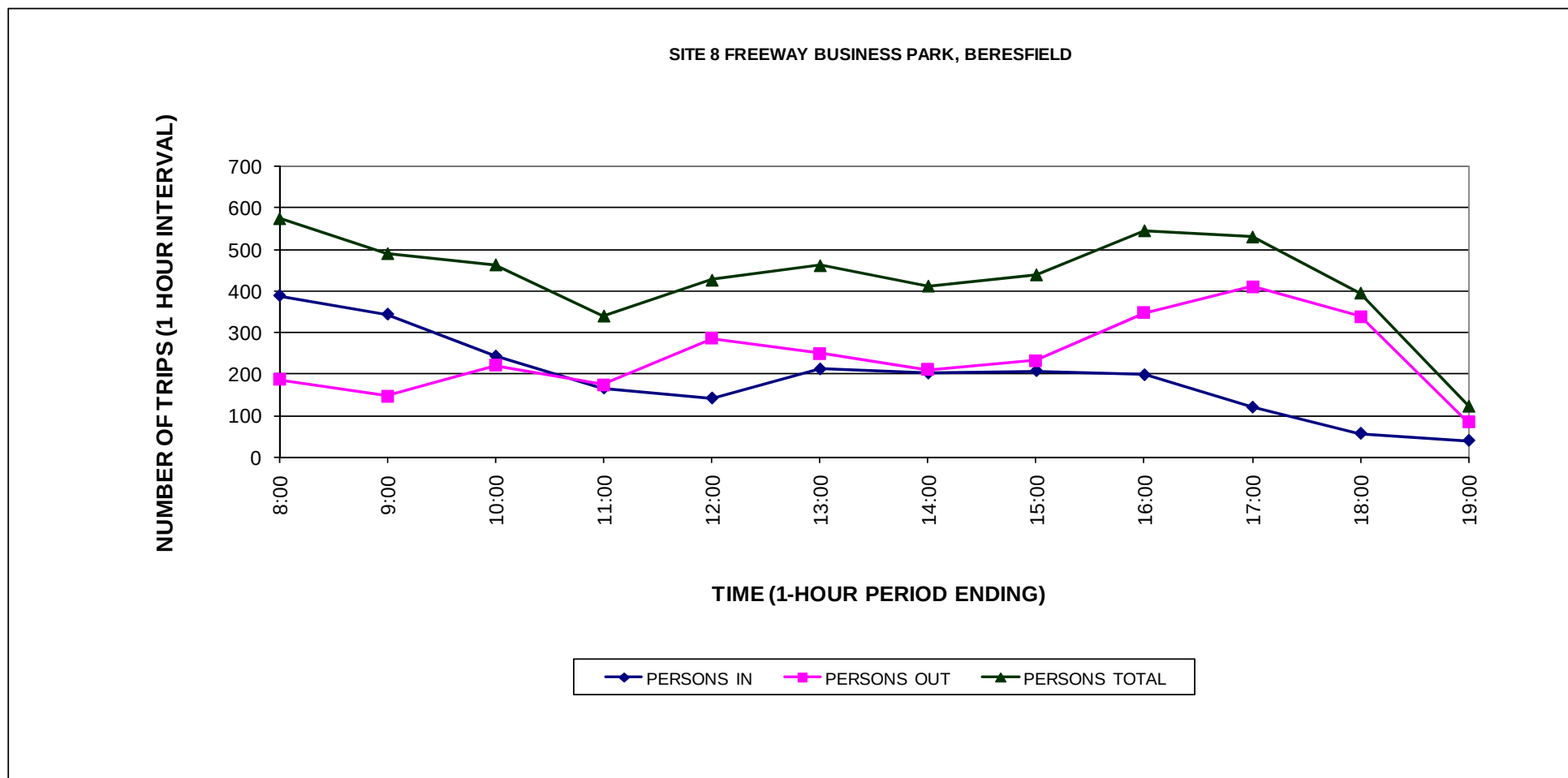


Figure 3.36 Site 8 – Hourly trip distribution - persons.

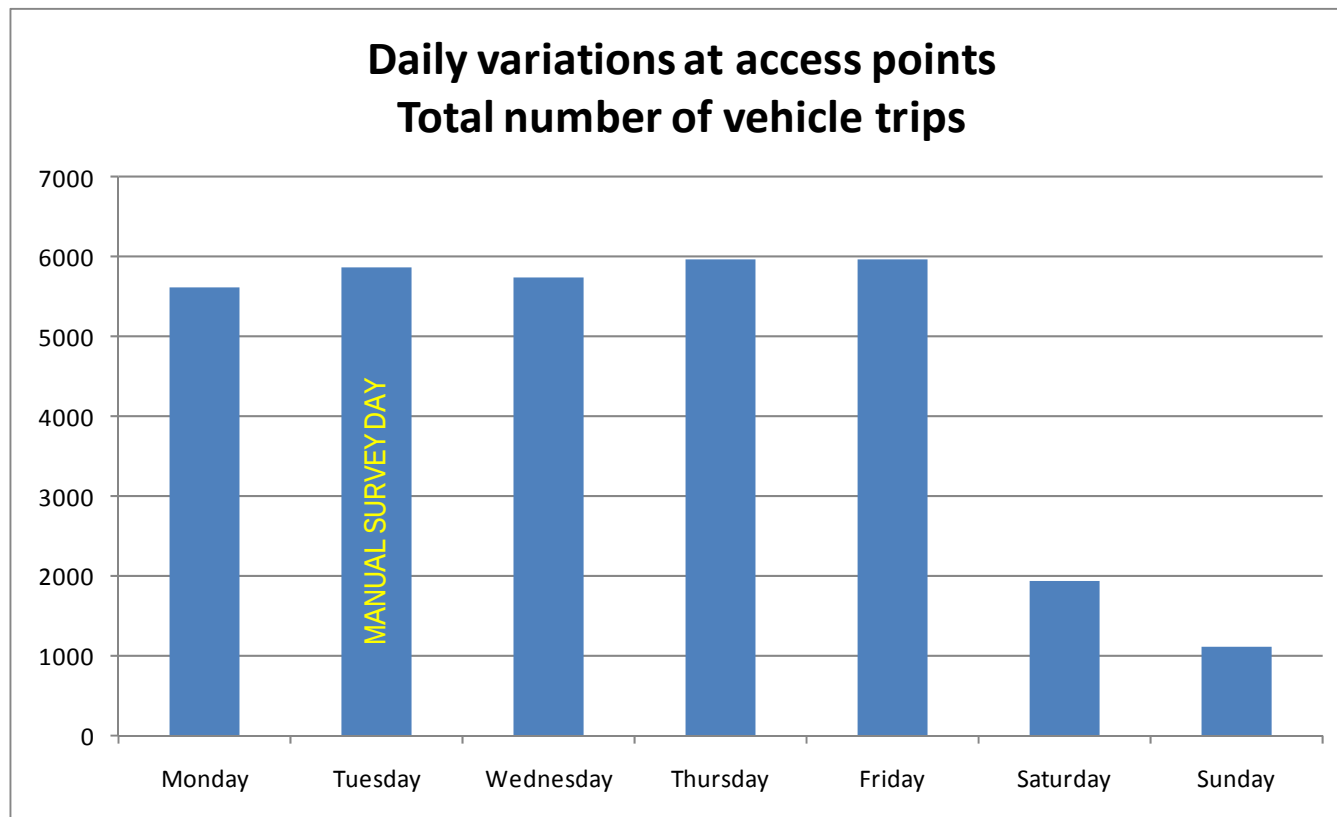


Figure 3.37 Site 8 – Daily trip distribution - vehicles.

3.1.9 Site 8 Freeway Business Park, Beresfield – Special Survey

Table 3.46 Site 8 - Survey Results – 15-minute interval data (Special survey)

DATE 1 May 2012		SITE 8 FREEWAY BUSINESS PARK, BERESFIELD																												Grandtotal	
15 minute Data		Vehicles										Persons																			
WEATHER Fine		IN					OUT					IN										OUT									
		TRUCKS					TRUCKS					TRUCKS										TRUCKS									
TIME		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons
7:00 to 7:15		19	3	0	0	22	4	4	0	0	8	20	0	3	0	0	0	0	0	23	4	0	4	0	0	0	0	0	8	30	31
7:15 to 7:30		43	8	3	0	54	11	5	0	0	16	53	0	8	3	1	0	2	0	67	11	0	6	0	0	0	0	17	70	84	
7:30 to 7:45		53	4	2	0	59	24	4	1	0	29	61	0	4	2	1	1	2	0	71	29	0	4	1	0	0	1	0	35	88	106
7:45 to 8:00		76	6	5	0	87	39	9	8	0	56	86	0	6	5	0	0	3	0	100	51	0	9	9	0	0	0	0	69	143	169
8:00 to 8:15		65	12	2	0	79	58	10	5	0	73	84	0	12	3	4	0	5	0	108	75	0	11	6	0	0	0	0	92	152	200
8:15 to 8:30		63	9	2	2	74	49	7	5	0	61	70	0	9	2	2	1	25	0	109	57	0	9	5	0	0	0	1	72	135	181
8:30 to 8:45		61	11	2	0	74	49	13	0	0	62	69	0	11	2	0	0	8	0	90	60	0	13	0	0	0	1	0	74	136	164
8:45 to 9:00		61	21	5	0	87	46	11	3	0	60	66	0	21	5	0	0	4	0	96	49	0	11	3	0	0	0	0	63	147	159
9:00 to 9:15		61	15	7	0	83	51	14	5	0	70	79	0	17	7	0	0	7	0	110	59	0	15	5	0	0	3	0	82	153	192
9:15 to 9:30		42	19	5	0	66	48	18	4	0	70	46	0	23	7	0	0	2	0	78	50	0	19	4	0	0	5	0	78	136	156
9:30 to 9:45		38	8	5	0	51	43	13	7	0	63	45	0	8	5	0	0	3	0	61	49	0	15	7	0	0	1	0	72	114	133
9:45 to 10:00		46	14	3	0	63	58	9	6	0	73	51	0	14	4	0	0	1	0	70	69	0	12	6	0	0	2	0	89	136	159
10:00 to 10:15		28	12	3	0	43	46	8	6	0	60	32	0	12	3	0	0	0	0	47	54	0	8	7	0	0	0	0	69	103	116
10:15 to 10:30		30	17	6	0	53	36	15	2	0	53	32	0	17	7	0	0	1	0	57	49	0	15	2	0	0	0	0	66	106	123
10:30 to 10:45		26	16	2	2	46	25	12	4	1	42	29	2	18	2	0	0	0	0	51	29	1	12	4	0	0	0	0	46	88	97
10:45 to 11:00		27	10	2	4	43	41	17	5	2	65	28	4	10	2	0	0	1	0	45	46	2	17	5	0	0	0	0	70	108	115
11:00 to 11:15		31	14	3	0	48	27	8	4	0	39	36	0	14	3	0	0	1	0	54	32	0	9	6	0	0	0	0	47	87	101
11:15 to 11:30		33	13	3	0	49	45	5	5	0	55	36	0	13	3	0	0	0	0	52	48	0	5	5	0	0	3	0	61	104	113
11:30 to 11:45		29	11	3	0	43	49	11	3	0	63	33	0	11	3	0	0	1	0	48	58	0	11	3	0	0	2	0	74	106	122
11:45 to 12:00		25	4	5	0	34	42	9	3	0	54	29	0	5	7	0	0	1	0	42	49	0	10	3	0	0	5	0	67	88	109
12:00 to 12:15		25	9	5	0	39	36	5	4	0	45	30	0	9	6	0	0	3	0	48	42	0	5	5	0	0	13	0	65	84	113
12:15 to 12:30		32	8	3	0	43	49	7	3	0	59	34	0	10	4	0	0	14	0	62	52	0	11	4	0	0	22	0	89	102	151
12:30 to 12:45		38	6	3	0	47	49	10	4	0	63	49	0	6	3	0	1	15	0	74	60	0	11	7	0	0	8	0	86	110	160
12:45 to 13:00		31	12	7	0	50	40	7	5	0	52	36	0	12	8	0	0	9	0	65	53	0	7	6	0	0	4	0	70	102	135
13:00 to 13:15		36	9	6	1	52	39	13	3	1	56	44	1	12	6	0	0	2	0	65	46	1	15	4	1	0	4	0	71	108	136
13:15 to 13:30		35	13	4	0	52	36	11	3	0	50	37	0	13	4	0	0	3	0	57	43	0	11	3	0	0	1	0	58	102	115
13:30 to 13:45		34	6	4	0	44	47	9	4	0	60	39	0	6	4	0	0	1	0	50	52	0	9	4	0	0	2	0	67	104	117
13:45 to 14:00		19	6	3	0	28	38	9	2	0	49	22	0	7	3	0	0	1	0	33	42	0	9	2	0	0	0	0	53	77	86
14:00 to 14:15		27	5	1	0	33	41	4	5	0	50	33	0	5	1	0	0	1	0	40	54	0	4	5	1	0	3	0	67	83	107
14:15 to 14:30		24	14	1	0	39	31	7	1	0	39	28	0	16	1	0	0	2	0	47	36	0	7	1	0	1	1	0	46	78	93
14:30 to 14:45		34	9	6	0	49	60	12	5	0	77	35	0	11	6	1	0	3	0	56	66	0	15	5	0	0	4	0	90	126	146
14:45 to 15:00		37	11	2	0	50	38	8	4	0	50	42	0	14	2	0	0	3	0	61	43	0	9	4	0	0	2	0	58	100	119
15:00 to 15:15		35	10	3	0	48	49	8	4	0	61	40	0	16	3	0	0	0	0	59	56	0	9	4	0	0	1	0	70	109	129
15:15 to 15:30		29	11	1	0	41	41	10	2	0	53	35	0	11	1	0	0	3	0	50	49	0	11	2	0	0	0	0	62	94	112
15:30 to 15:45		25	4	0	0	29	110	9	3	0	122	28	0	4	0	0	0	0	0	32	126	0	7	3	1	2	3	2	144	151	176
15:45 to 16:00		14	7	1	0	22	69	14	1	0	84	17	0	9	1	0	0	0	0	27	80	0	16	1	0	0	0	0	97	106	124
16:00 to 16:15		22	6	0	0	28	91	4	1	1	97	23	0	6	0	0	0	3	0	32	104	1	3	1	2	2	7	0	120	125	152
16:15 to 16:30		12	4	1	0	17	58	7	0	0	65	13	0	4	1	0	0	0	0	18	63	0	8	0	1	0	5	0	77	82	95
16:30 to 16:45		14	5	1	1	21	107	2	1	1	111	15	1	5	1	0	0	0	0	22	117	1	2	1	2	1	9	0	133	132	155
16:45 to 17:00		11	1	0	0	12	70	2	0	0	72	13	0	1	0	0	0	1	0	15	75	0	2	0	3	0	11	0	91	84	106
17:00 to 17:15		12	1	3	0	16	76	2	1	0	79	12	0	1	3	0	0	0	0	16	77	0	3	1	0	0	21	0	102	95	118
17:15 to 17:30		9	0	0	0	9	56	2	2	0	60	9	0	0	0	0	0	0	0	9	57	0	2	2	2	0	6	0	69	69	78
17:30 to 17:45		10	1	1	0	12	52	3	1	0	56	15	0	1	1	0	0	0	0	17	55	0	3	1	1	0	4	0	64	68	81
17:45 to 18:00		7	0	1	0	8	39	2	0	0	41	10	0	0	1	0	0	0	0	11	40	0	3	0	2	0	3	0	48	49	59
18:00 to 18:15		2	0	1	0	3	28	0	0	0	28	2	0	0	1	0	0	0	0	3	29	0	0	0	0	0	1	0	30	31	33
18:15 to 18:30		1	0	0	0	1	11	0	0	0	11	1	0	0	0	0	0	1	0	2	12	0	0	0	0	0	1	0	13	12	15
18:30 to 18:45		5	0	1	0	6	11	0	0	0	11	7	0	0	1	0	0	0	0	8	14	0	0	0	0	0	0	0	14	17	22
18:45 to 19:00		1	1	0	0	2	1	0	0	0	1	1	0	1	0	0	0	0	0	2	1	0	0	0	0	0	0	0	1	3	3
TOTAL		1438	386	127	8	1959	2164	369	135	6	2674	1655	8	416	137	9	3	132	0	2360	2472	6	397	147	16	6	160	2	3206	4633	5566

Table 3.47 Site 8 - Survey Results – Hourly data - rolling at 15 minute intervals (Special survey)

DATE 1 May 2012		SITE 8 FREEWAY BUSINESS PARK, BERESFIELD																														Grandtotal									
1-hour Data		Vehicles										Persons																		1-hour Data											
WEATHER	Fine	IN					OUT					IN																				OUT									
		TRUCKS					TRUCKS					TRUCKS																				TRUCKS									
TIME		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons										
7:00	to 8:00	191	21	10	0	222	78	22	9	0	109	220	0	21	10	2	1	7	0	261	95	0	23	10	0	0	1	0	129	331	390										
7:15	to 8:15	237	30	12	0	279	132	28	14	0	174	284	0	30	13	6	1	12	0	346	166	0	30	16	0	0	1	0	213	453	559										
7:30	to 8:30	257	31	11	0	299	170	30	19	0	219	301	0	31	12	7	2	35	0	388	212	0	33	21	0	0	2	0	268	518	656										
7:45	to 8:45	265	38	11	0	314	195	39	18	0	252	309	0	38	12	6	1	41	0	407	243	0	42	20	0	0	2	0	307	566	714										
8:00	to 9:00	250	53	11	0	314	202	41	13	0	256	289	0	53	12	6	1	42	0	403	241	0	44	14	0	0	2	0	301	570	704										
8:15	to 9:15	246	56	16	0	318	195	45	13	0	253	284	0	58	16	2	1	44	0	405	225	0	48	13	0	0	5	0	291	571	696										
8:30	to 9:30	225	66	19	0	310	194	56	12	0	262	260	0	72	21	0	0	21	0	374	218	0	58	12	0	0	9	0	297	572	671										
8:45	to 9:45	202	63	22	0	287	188	56	19	0	263	236	0	69	24	0	0	16	0	345	207	0	60	19	0	0	9	0	295	550	640										
9:00	to 10:00	187	56	20	0	263	200	54	22	0	276	221	0	62	23	0	0	13	0	319	227	0	61	22	0	0	11	0	321	539	640										
9:15	to 10:15	154	53	16	0	223	195	48	23	0	266	174	0	57	19	0	0	6	0	256	222	0	54	24	0	0	8	0	308	489	564										
9:30	to 10:30	142	51	17	0	210	183	45	21	0	249	160	0	51	19	0	0	5	0	235	221	0	50	22	0	0	3	0	296	459	531										
9:45	to 10:45	130	59	14	2	205	165	44	18	1	228	144	2	61	16	0	0	2	0	225	201	1	47	19	0	0	2	0	270	433	495										
10:00	to 11:00	111	55	13	6	185	148	52	17	3	220	121	6	57	14	0	0	2	0	200	178	3	52	18	0	0	0	0	251	405	451										
10:15	to 11:15	114	57	13	6	190	129	52	15	3	199	125	6	59	14	0	0	3	0	207	156	3	53	17	0	0	0	0	229	389	436										
10:30	to 11:30	117	53	10	6	186	138	42	18	3	201	129	6	55	10	0	0	2	0	202	155	3	43	20	0	0	3	0	224	387	426										
10:45	to 11:45	120	48	11	4	183	162	41	17	2	222	133	4	48	11	0	0	3	0	199	184	2	42	19	0	0	5	0	252	405	451										
11:00	to 12:00	118	42	14	0	174	163	33	15	0	211	134	0	43	16	0	0	3	0	196	187	0	35	17	0	0	10	0	249	385	445										
11:15	to 12:15	112	37	16	0	165	172	30	15	0	217	128	0	38	19	0	0	5	0	190	197	0	31	16	0	0	23	0	267	382	457										
11:30	to 12:30	111	32	16	0	159	176	32	13	0	221	126	0	35	20	0	0	19	0	200	201	0	37	15	0	0	42	0	295	380	495										
11:45	to 12:45	120	27	16	0	163	176	31	14	0	221	142	0	30	20	0	1	33	0	226	203	0	37	19	0	0	48	0	307	384	533										
12:00	to 13:00	126	35	18	0	179	174	29	16	0	219	149	0	37	21	0	1	41	0	249	207	0	34	22	0	0	47	0	310	398	559										
12:15	to 13:15	137	35	19	1	192	177	37	15	1	230	163	1	40	21	0	1	40	0	266	211	1	44	21	1	0	38	0	316	422	582										
12:30	to 13:30	140	40	20	1	201	164	41	15	1	221	166	1	43	21	0	1	29	0	261	202	1	44	20	1	0	17	0	285	422	546										
12:45	to 13:45	136	40	21	1	198	162	40	15	1	218	156	1	43	22	0	0	15	0	237	194	1	42	17	1	0	11	0	266	416	503										
13:00	to 14:00	124	34	17	1	176	160	42	12	1	215	142	1	38	17	0	0	7	0	205	183	1	44	13	1	0	7	0	249	391	454										
13:15	to 14:15	115	30	12	0	157	162	33	14	0	209	131	0	31	12	0	0	6	0	180	191	0	33	14	1	0	6	0	245	366	425										
13:30	to 14:30	104	31	9	0	144	157	29	12	0	198	122	0	34	9	0	0	5	0	170	184	0	29	12	1	1	6	0	233	342	403										
13:45	to 14:45	104	34	11	0	149	170	32	13	0	215	118	0	39	11	1	0	7	0	176	198	0	35	13	1	1	8	0	256	364	432										
14:00	to 15:00	122	39	10	0	171	170	31	15	0	216	138	0	46	10	1	0	9	0	204	199	0	35	15	1	1	10	0	261	387	465										
14:15	to 15:15	130	44	12	0	186	178	35	14	0	227	145	0	57	12	1	0	8	0	223	201	0	40	14	0	1	8	0	264	413	487										
14:30	to 15:30	135	41	12	0	188	188	38	15	0	241	152	0	52	12	1	0	9	0	226	214	0	44	15	0	0	7	0	280	429	506										
14:45	to 15:45	126	36	6	0	168	238	35	13	0	286	145	0	45	6	0	0	6	0	202	274	0	36	13	1	2	6	2	334	454	536										
15:00	to 16:00	103	32	5	0	140	269	41	10	0	320	120	0	40	5	0	0	3	0	168	311	0	43	10	1	2	4	2	373	460	541										
15:15	to 16:15	90	28	2	0	120	311	37	7	1	356	103	0	30	2	0	0	6	0	141	359	1	37	7	3	4	10	2	423	476	564										
15:30	to 16:30	73	21	2	0	96	328	34	5	1	368	81	0	23	2	0	0	3	0	109	373	1	34	5	4	4	15	2	438	464	547										
15:45	to 16:45	62	22	3	1	88	325	27	3	2	357	68	1	24	3	0	0	3	0	99	364	2	29	3	5	3	21	0	427	445	526										
16:00	to 17:00	59	16	2	1	78	326	15	2	2	345	64	1	16	2	0	0	4	0	87	359	2	15	2	8	3	32	0	421	423	508										
16:15	to 17:15	49	11	5	1	66	311	13	2	1	327	53	1	11	5	0	0	1	0	71	332	1	15	2	6	1	46	0	403	393	474										
16:30	to 17:30	46	7	4	1	58	309	8	4	1	322	49	1	7	4	0	0	1	0	62	326	1	9	4	7	1	47	0	395	380	457										
16:45	to 17:45	42	3	4	0	49	254	9	4	0	267	49	0	3	4	0	0	1	0	57	264	0	10	4	6	0	42	0	326	316	383										
17:00	to 18:00	38	2	5	0	45	223	9	4	0	236	46	0	2	5	0	0	0	0	53	229	0	11	4	5	0	34	0	283	281	336										
17:15	to 18:15	28	1	3	0	32	175	7	3	0	185	36	0	1	3	0	0	0	0	40	181	0	8	3	5	0	14	0	211	217	251										
17:30	to 18:30	20	1	3	0	24	130	5	1	0	136	28	0	1	3	0	0	1	0	33	136	0	6	1	3	0	9	0	155	160	188										
17:45	to 18:45	15	0	3	0	18	89	2	0	0	91	20	0	0	3	0	0	1	0	24	95	0	3	0	2	0	5	0	105	109	129										
18:00	to 19:00	9	1	2	0	12	51	0	0	0	51	11	0	1	2	0	0	1	0	15	56	0	0	0	0	0	2	0	58	63	73										

Table 3.48 Site 8 - Peak hours (Special survey)

Peak hour		Vehicles										Persons																	
Vehicles		IN					OUT					IN										OUT							
		TRUCKS					TRUCKS					TRUCKS					IN					TRUCKS							
AM		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
8:30	to 9:30	225	66	19	0	310	194	56	12	0	262	260	0	72	21	0	0	21	0	374	218	0	58	12	0	0	9	0	297
PM																													
15:15	to 16:15	90	28	2	0	120	311	37	7	1	356	103	0	30	2	0	0	6	0	141	359	1	37	7	3	4	10	2	423
Peak hour		Vehicles										Persons																	
Persons		IN					OUT					IN										OUT							
		TRUCKS					TRUCKS					TRUCKS					IN					TRUCKS							
AM		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
7:45	to 8:45	265	38	11	0	314	195	39	18	0	252	309	0	38	12	6	1	41	0	407	243	0	42	20	0	0	2	0	307
PM																													
15:15	to 16:15	90	28	2	0	120	311	37	7	1	356	103	0	30	2	0	0	6	0	141	359	1	37	7	3	4	10	2	423

Table 3.49 Site 8 - Hourly data - consecutive (Special survey)

DATE 1 May 2012 1-hour Data		SITE 8 FREEWAY BUSINESS PARK, BERESFIELD																												Grandtotal							
		Vehicles										Persons																									
WEATHER Fine		IN					OUT					IN																		OUT						1-hour Data	
		TRUCKS					TRUCKS					TRUCKS						TRUCKS						TRUCKS													
TIME		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons						
7:00	to 8:00	191	21	10	0	222	78	22	9	0	109	220	0	21	10	2	1	7	0	261	95	0	23	10	0	0	1	0	129	331	390						
8:00	to 9:00	250	53	11	0	314	202	41	13	0	256	289	0	53	12	6	1	42	0	403	241	0	44	14	0	0	2	0	301	570	704						
9:00	to 10:00	187	56	20	0	263	200	54	22	0	276	221	0	62	23	0	0	13	0	319	227	0	61	22	0	0	11	0	321	539	640						
10:00	to 11:00	111	55	13	6	185	148	52	17	3	220	121	6	57	14	0	0	2	0	200	178	3	52	18	0	0	0	0	251	405	451						
11:00	to 12:00	118	42	14	0	174	163	33	15	0	211	134	0	43	16	0	0	3	0	196	187	0	35	17	0	0	10	0	249	385	445						
12:00	to 13:00	126	35	18	0	179	174	29	16	0	219	149	0	37	21	0	1	41	0	240	207	0	34	22	0	0	47	0	310	398	559						
13:00	to 14:00	124	34	17	1	176	160	42	12	1	215	142	1	38	17	0	0	7	0	205	183	1	44	13	1	0	7	0	249	391	454						
14:00	to 15:00	122	39	10	0	171	170	31	15	0	216	138	0	46	10	1	0	9	0	204	199	0	35	15	1	1	10	0	261	387	485						
15:00	to 16:00	103	32	5	0	140	269	41	10	0	320	120	0	40	5	0	0	3	0	168	311	0	43	10	1	2	4	2	373	541	566						
16:00	to 17:00	59	16	2	1	78	326	15	2	2	345	64	1	16	2	0	0	4	0	87	359	2	15	2	8	3	32	0	421	423	508						
17:00	to 18:00	38	2	5	0	45	223	9	4	0	236	46	0	2	5	0	0	0	0	53	229	0	11	4	5	0	34	0	283	281	336						
18:00	to 19:00	9	1	2	0	12	51	0	0	0	51	11	0	1	2	0	0	1	0	15	56	0	0	0	0	0	2	0	58	63	73						
Total		1438	386	127	8	1959	2164	369	135	6	2674	1655	8	416	137	9	3	132	0	2360	2472	6	397	147	16	6	160	2	3206	4633	5566						

Survey results for the early morning were incomplete due to observation difficulties and were excluded from the analysis. For the comparable survey times the results of the survey indicated the following:

Total number of vehicular trips from individual businesses combined is greater than that counted at the site entry by 4%.

Total number of person trips from individual businesses combined is greater than that counted at the site entry by 5%.

The very low differences between the added counts for individual businesses and the counts at the site entry and exit are believed to be due to the nature and the scale of the businesses on Site 8. Most of the businesses are large scale industrial and warehousing operations (including heavy machinery hire). Customers of these businesses arrive for a specific pre-arranged purpose and have no need to visit any other businesses on site. The nature of businesses on site is also very diverse and therefore it is unlikely that suppliers of goods or materials would deliver to different businesses by the same trip. Combined trips would thus likely be limited to waste collection, office supplies and couriers.

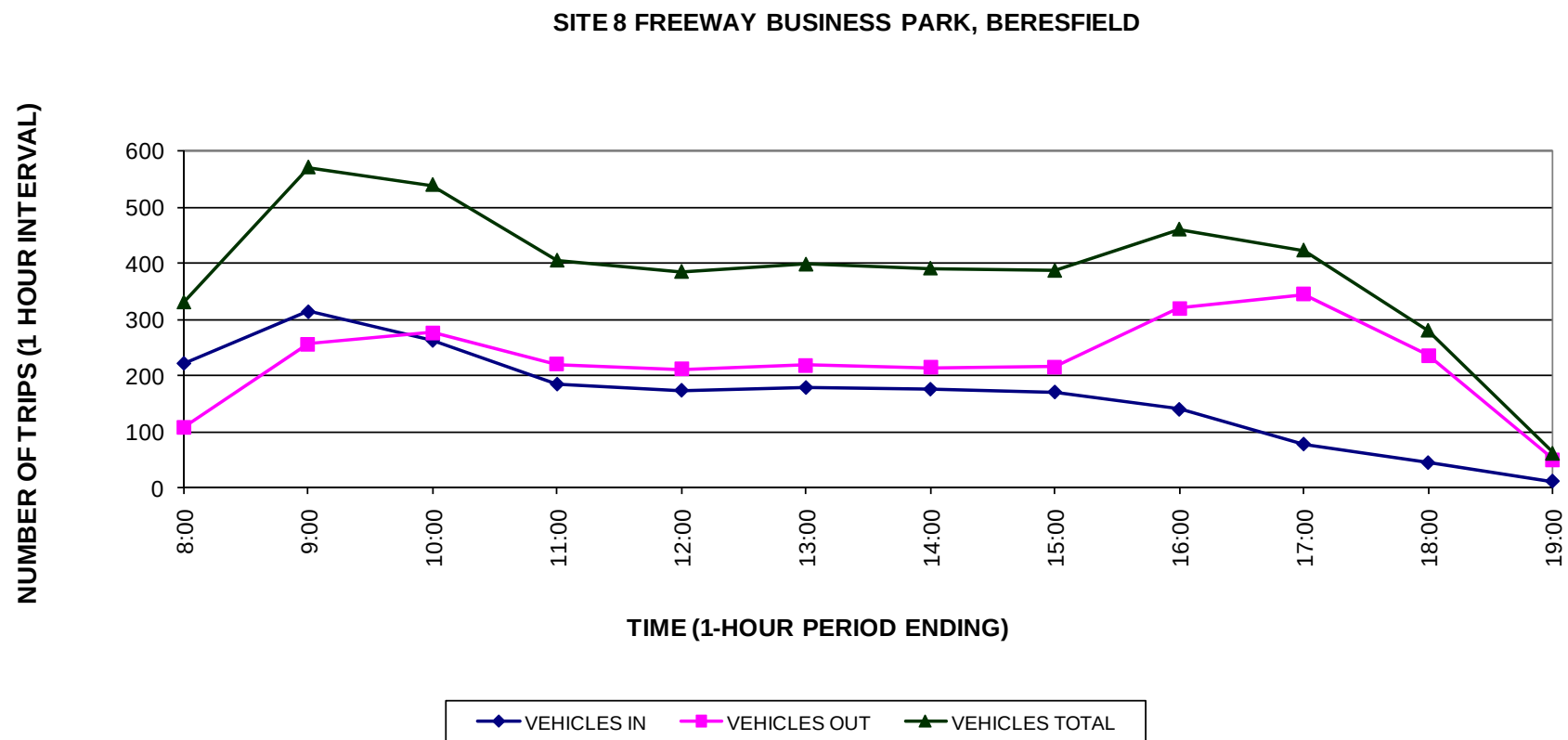


Figure 3.38 Site 8 – Hourly trip distribution - vehicles.

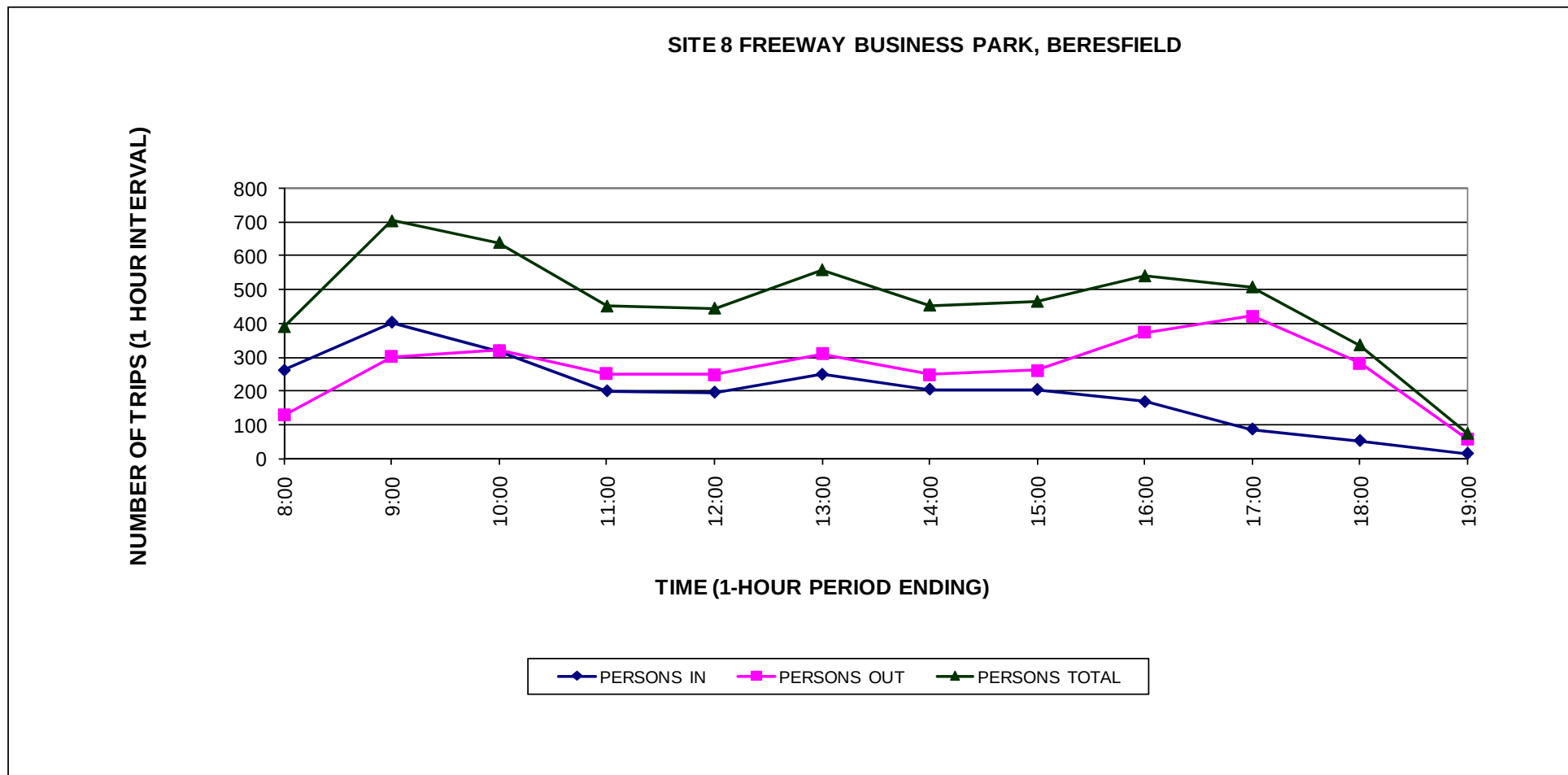


Figure 3.39 Site 8 – Hourly trip distribution - persons.

3.1.10 Site 9 Shearwater Business Park, Taylors Beach.

Table 3.50 Site 9 - Survey Results – 15-minute interval data

DATE 2 May 2012 15 minute Data		SITE 9 SHEARWATER BUSINESS PARK, TAYLORS BEACH																														Grand Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		Vehicles										Persons																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		IN					OUT					IN										OUT										15 minute Data																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		TRUCKS				Buses	Total	TRUCKS			Buses	Total	By car	By bus	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	TRUCKS			Bikes	Motorbikes	Pedestrians	Other			Total																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Cars	Rigid	Artic.		Cars	Rigid			Artic.		By rigid					By artic.		By rigid								By artic.		By rigid					By artic.			By rigid	By artic.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
WEATHER	Fine																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

Table 3.51 Site 9 - Survey Results – Hourly data - rolling at 15 minute intervals

DATE 2 May 2012 1-hour Data		SITE 9 SHEARWATER BUSINESS PARK, TAYLORS BEACH																												Grandtotal	
		Vehicles										Persons																		1-hour Data	
		IN					OUT					IN									OUT										
		TRUCKS			Buses	Total	TRUCKS			Buses	Total	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total				
Cars	Rigid	Artic.	Cars	Rigid			Artic.	By car	By bus			By rigid	By artic.	By car						By bus	By rigid	By artic.									
TIME		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons
6:00 to 7:00		17	2	1	0	20	6	2	0	0	8	19	0	2	1	0	1	0	0	23	8	0	2	0	0	0	0	0	10	28	33
6:15 to 7:15		22	2	1	0	25	6	4	1	0	11	24	0	2	1	0	1	0	0	28	8	0	4	1	0	0	0	0	13	36	41
6:30 to 7:30		29	2	1	0	32	5	3	1	0	9	33	0	2	1	0	1	0	0	37	7	0	3	1	0	0	0	0	11	41	48
6:45 to 7:45		41	3	0	0	44	11	3	1	0	15	47	0	3	0	0	1	0	0	51	11	0	3	1	0	0	0	0	15	59	66
7:00 to 8:00		48	1	1	0	50	17	2	1	0	20	57	0	1	1	0	0	0	0	60	17	0	2	1	0	1	0	0	21	70	81
7:15 to 8:15		65	2	1	0	68	25	0	0	0	25	76	0	2	1	1	1	0	0	81	27	0	0	0	0	1	0	0	28	93	109
7:30 to 8:30		96	2	1	0	99	35	0	0	0	35	114	0	2	1	1	2	0	0	120	39	0	0	0	0	2	0	0	41	134	161
7:45 to 8:45		100	1	1	0	102	33	1	0	0	34	120	0	1	1	2	2	0	0	126	38	0	1	0	0	2	0	0	41	136	167
8:00 to 9:00		107	1	0	0	108	38	1	0	0	39	127	0	1	0	1	2	0	0	131	43	0	1	0	0	1	0	0	45	147	176
8:15 to 9:15		109	0	0	0	109	41	1	0	0	42	132	0	0	0	1	1	0	0	134	46	0	1	0	0	1	0	0	48	151	182
8:30 to 9:30		91	4	0	0	95	47	1	0	0	48	120	0	4	0	1	1	0	0	126	51	0	1	0	0	0	0	0	52	143	178
8:45 to 9:45		99	6	0	0	105	64	5	0	0	69	131	0	6	0	0	1	3	0	141	71	0	5	0	0	1	0	0	77	174	218
9:00 to 10:00		105	8	0	0	113	66	5	0	0	71	137	0	8	0	0	1	3	0	149	75	0	5	0	0	1	1	0	82	184	231
9:15 to 10:15		103	8	0	0	111	75	7	0	0	82	136	0	8	0	0	1	3	0	148	87	0	7	0	1	1	0	0	96	193	244
9:30 to 10:30		91	4	0	0	95	74	10	0	0	84	110	0	4	0	1	0	3	0	118	88	0	11	0	1	1	0	0	101	179	219
9:45 to 10:45		79	3	0	0	82	59	7	0	0	66	93	0	3	0	1	0	0	0	97	69	0	8	0	1	0	0	0	78	148	175
10:00 to 11:00		65	1	0	0	66	51	8	0	0	59	83	0	1	0	1	3	0	0	88	60	0	9	0	0	2	0	0	71	125	159
10:15 to 11:15		63	1	0	0	64	49	7	0	0	56	77	0	1	0	1	4	0	0	83	56	0	8	0	0	3	0	0	67	120	150
10:30 to 11:30		65	1	0	0	66	52	4	0	0	56	81	0	1	0	0	4	0	0	86	59	0	4	0	0	3	0	0	66	122	152
10:45 to 11:45		63	0	0	0	63	62	2	0	0	64	81	0	0	0	0	4	0	0	85	72	0	2	0	0	5	0	0	79	127	164
11:00 to 12:00		64	2	0	0	66	75	3	0	0	78	93	0	2	0	0	1	0	0	96	90	0	3	0	0	3	0	0	96	144	192
11:15 to 12:15		67	4	0	0	71	87	2	0	0	89	104	0	5	0	0	0	0	0	109	113	0	2	0	0	2	0	0	117	160	226
11:30 to 12:30		78	6	1	0	85	84	5	0	0	89	118	0	8	1	1	0	0	0	128	113	0	6	0	0	2	0	0	121	174	249
11:45 to 12:45		88	7	1	0	96	89	6	0	0	95	128	0	9	1	1	0	0	0	139	122	0	7	0	0	0	0	0	129	191	268
12:00 to 13:00		94	6	1	0	101	87	6	0	0	93	120	0	8	1	1	0	1	0	131	120	0	8	0	0	0	0	0	128	194	259
12:15 to 13:15		88	5	1	0	94	72	8	0	0	80	107	0	6	1	1	1	1	0	117	98	0	11	0	0	0	0	0	109	174	226
12:30 to 13:30		81	4	0	0	85	77	5	0	0	82	95	0	4	0	0	1	1	0	101	101	0	7	0	0	0	0	0	108	167	209
12:45 to 13:45		80	4	0	0	84	68	4	0	0	72	98	0	4	0	0	1	1	0	104	86	0	6	0	0	1	0	0	93	156	197
13:00 to 14:00		72	3	0	0	75	72	5	0	0	77	88	0	3	0	0	1	0	0	92	92	0	7	0	1	0	0	0	100	152	192
13:15 to 14:15		73	3	0	0	76	79	4	0	0	83	86	0	3	0	0	0	0	0	89	93	0	5	0	1	0	0	0	99	159	188
13:30 to 14:30		79	3	0	0	82	78	4	0	0	82	97	0	3	0	1	0	0	0	101	93	0	5	0	1	0	0	0	99	164	200
13:45 to 14:45		70	4	0	0	74	80	6	0	0	86	83	0	4	0	2	0	0	0	89	98	0	7	0	0	0	0	0	105	160	194
14:00 to 15:00		68	5	0	0	73	71	4	0	0	75	82	0	5	0	3	0	0	0	90	83	0	4	0	2	0	0	0	89	148	179
14:15 to 15:15		66	5	0	0	71	71	5	0	0	76	85	0	5	0	5	0	0	0	95	89	0	5	0	3	0	0	0	97	147	192
14:30 to 15:30		60	5	0	0	65	70	5	0	0	75	77	0	6	0	4	0	0	0	87	87	0	5	0	3	0	0	0	95	140	182
14:45 to 15:45		57	5	0	0	62	77	3	0	0	80	72	0	7	0	3	0	0	0	82	94	0	3	0	3	0	0	0	100	142	182
15:00 to 16:00		62	4	0	0	66	82	3	0	0	85	86	0	6	0	2	0	0	0	94	98	0	4	0	1	1	0	0	104	151	198
15:15 to 16:15		64	3	0	0	67	80	1	0	0	81	91	0	5	0	0	0	0	0	96	95	0	2	0	0	1	0	0	98	148	194
15:30 to 16:30		86	3	0	0	89	91	1	0	0	92	134	0	4	0	1	0	0	0	139	109	0	2	0	0	1	0	0	112	181	251
15:45 to 16:45		91	3	0	0	94	93	1	0	0	94	144	0	3	0	1	0	0	1	149	113	0	2	0	0	2	0	0	117	188	266
16:00 to 17:00		79	5	0	0	84	101	2	0	0	103	121	0	5	0	1	0	1	0	128	126	0	2	0	1	1	0	0	130	187	258
16:15 to 17:15		76	6	0	0	82	124	3	0	0	127	122	0	6	0	1	0	1	0	130	149	0	3	0	1	1	1	0	155	209	285
16:30 to 17:30		60	5	0	0	65	134	3	0	0	137	102	0	5	0	0	0	1	0	108	170	0	3	0	1	1	1	0	176	202	284
16:45 to 17:45		56	3	0	0	59	126	3	0	0	129	94	0	3	0	0	0	0	0	97	158	0	3	0	1	1	1	0	164	188	261
17:00 to 18:00		53	1	0	0	54	118	1	0	0	119	89	0	1	0	0	0	0	0	90	144	0	1	0	0	1	1	0	147	173	237
17:15 to 18:15		42	0	0	0	42	93	0	0	0	93	66	0	0	0	0	0	0	0	66	113	0	0	0	0	1	0	0	114	135	180
17:30 to 18:30		26	0	0	0	26	61	1	0	0	62	28	0	0	0	0	0	0	0	28	63	0	1	0	0	1	0	0	65	88	93
17:45 to 18:45		17	0	0	0	17	57	1	0	0	58	17	0	0	0	0	0	0	0	17	57	0	1	0	0	0	0	0	58	75	75
18:00 to 19:00		13	0	0	0	13	43	1	0	0	44	13	0	0	0	0	0	0	0	13	43	0	1	0	1	0	0	0	45	57	58

Table 3.52 Site 9 - Peak hours

Peak hour		Vehicles										Persons																	
Vehicles		IN					OUT					IN										OUT							
		TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS							
AM		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
9:15	to 10:15	103	8	0	0	111	75	7	0	0	82	136	0	8	0	0	1	3	0	148	87	0	7	0	1	1	0	0	96
PM																													
16:15	to 17:15	76	6	0	0	82	124	3	0	0	127	122	0	6	0	1	0	1	0	130	149	0	3	0	1	1	1	0	155

Peak hour		Vehicles										Persons																	
Persons		IN					OUT					IN										OUT							
		TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS							
AM		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
9:15	to 10:15	103	8	0	0	111	75	7	0	0	82	136	0	8	0	0	1	3	0	148	87	0	7	0	1	1	0	0	96
PM																													
16:15	to 17:15	76	6	0	0	82	124	3	0	0	127	122	0	6	0	1	0	1	0	130	149	0	3	0	1	1	1	0	155

Table 3.53 Site 9 - Hourly data - consecutive

DATE 2 May 2012		SITE 9 SHEARWATER BUSINESS PARK, TAYLORS BEACH																												Grand Total	
1-hour Data		Vehicles										Persons																		1-hour Data	
WEATHER Fine	TIME	IN					OUT					IN										OUT								Vehicles	Persons
		TRUCKS			Buses	Total	TRUCKS			Buses	Total	TRUCKS				Bikes	Motorbikes	Pedestrians	Other	Total	TRUCKS				Bikes	Motorbikes	Pedestrians	Other	Total		
Cars	Rigid	Artic.	Cars	Rigid			Artic.	Cars	Rigid			Artic.	By car	By bus	By rigid						By artic.	Bikes	Motorbikes	Pedestrians						Other	By car
	6:00 to 7:00	17	2	1	0	20	6	2	0	0	8	19	0	2	1	0	1	0	23	8	0	2	0	0	0	0	10	28	33		
	7:00 to 8:00	48	1	1	0	50	17	2	1	0	20	57	0	1	1	1	0	0	60	17	0	2	1	0	1	0	0	21	70	81	
	8:00 to 9:00	107	1	0	0	108	38	1	0	0	39	127	0	1	0	1	2	0	131	43	0	1	0	0	1	0	0	45	147	176	
	9:00 to 10:00	105	8	0	0	113	66	5	0	0	71	137	0	8	0	0	1	3	0	149	75	0	5	0	1	1	0	0	82	184	231
	10:00 to 11:00	65	1	0	0	66	51	8	0	0	59	83	0	1	0	1	3	0	88	60	0	9	0	0	2	0	0	71	125	159	
	11:00 to 12:00	64	2	0	0	66	75	3	0	0	78	93	0	2	0	0	1	0	96	90	0	3	0	0	3	0	0	96	144	192	
	12:00 to 13:00	94	6	1	0	101	87	6	0	0	93	120	0	8	1	1	0	1	131	120	0	8	0	0	0	0	0	128	194	259	
	13:00 to 14:00	72	3	0	0	75	72	5	0	0	77	88	0	3	0	0	1	0	92	92	0	7	0	1	0	0	0	100	152	192	
	14:00 to 15:00	68	5	0	0	73	71	4	0	0	75	82	0	5	0	3	0	0	90	83	0	4	0	2	0	0	0	89	148	179	
	15:00 to 16:00	62	4	0	0	66	82	3	0	0	85	86	0	6	0	2	0	0	94	98	0	4	0	1	1	0	0	104	151	198	
	16:00 to 17:00	79	5	0	0	84	101	2	0	0	103	121	0	5	0	1	0	1	128	126	0	2	0	1	1	0	0	130	187	258	
	17:00 to 18:00	53	1	0	0	54	118	1	0	0	119	89	0	1	0	0	0	0	90	144	0	1	0	0	1	1	0	147	173	237	
	18:00 to 19:00	13	0	0	0	13	43	1	0	0	44	13	0	0	0	0	0	0	13	43	0	1	0	1	0	0	0	45	57	58	
	Total	847	39	3	0	889	827	43	1	0	871	1115	0	43	3	10	9	5	0	1185	999	0	49	1	7	11	1	0	1068	1760	2253

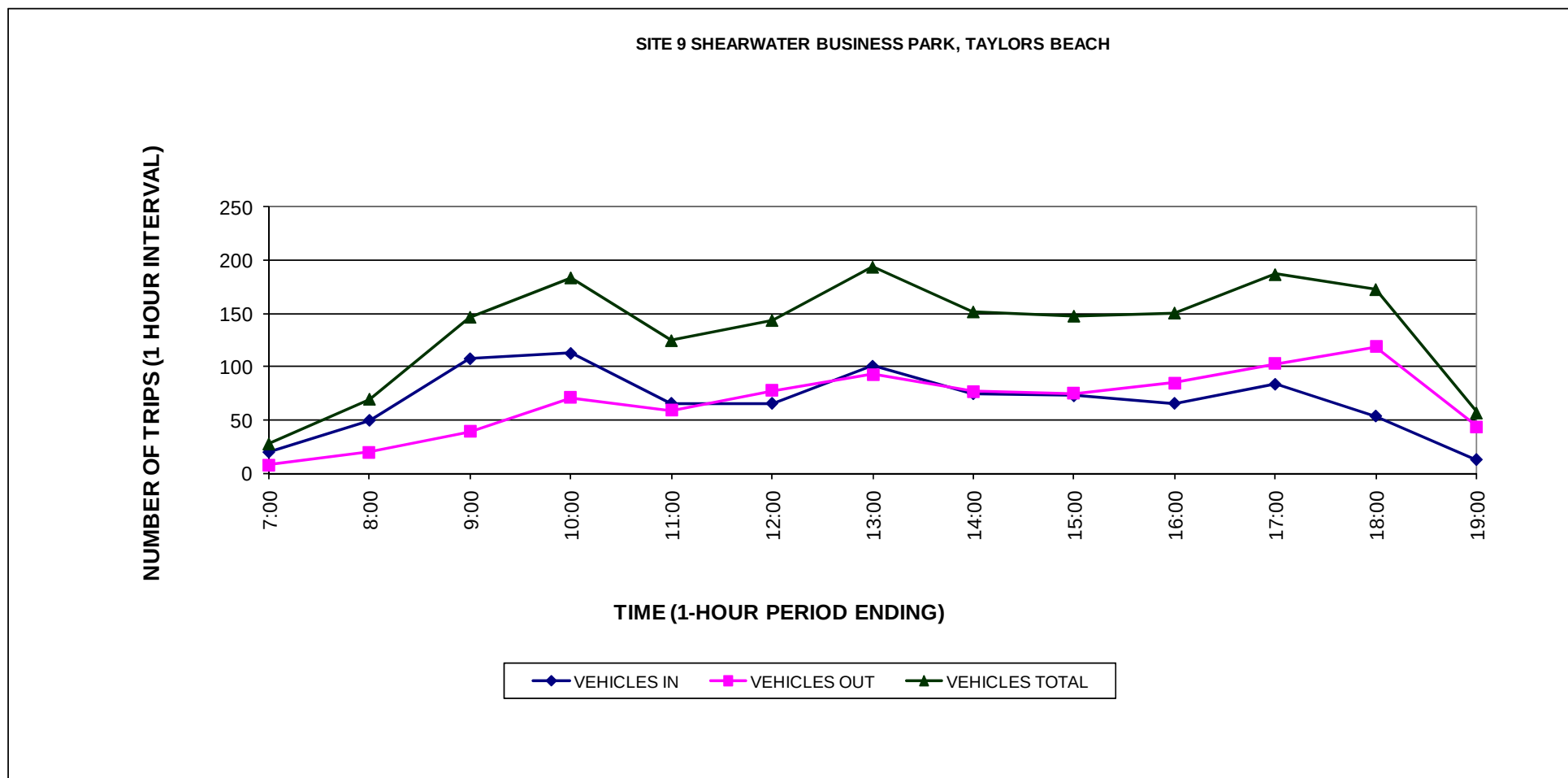


Figure 3.40 Site 9 – Hourly trip distribution - vehicles.

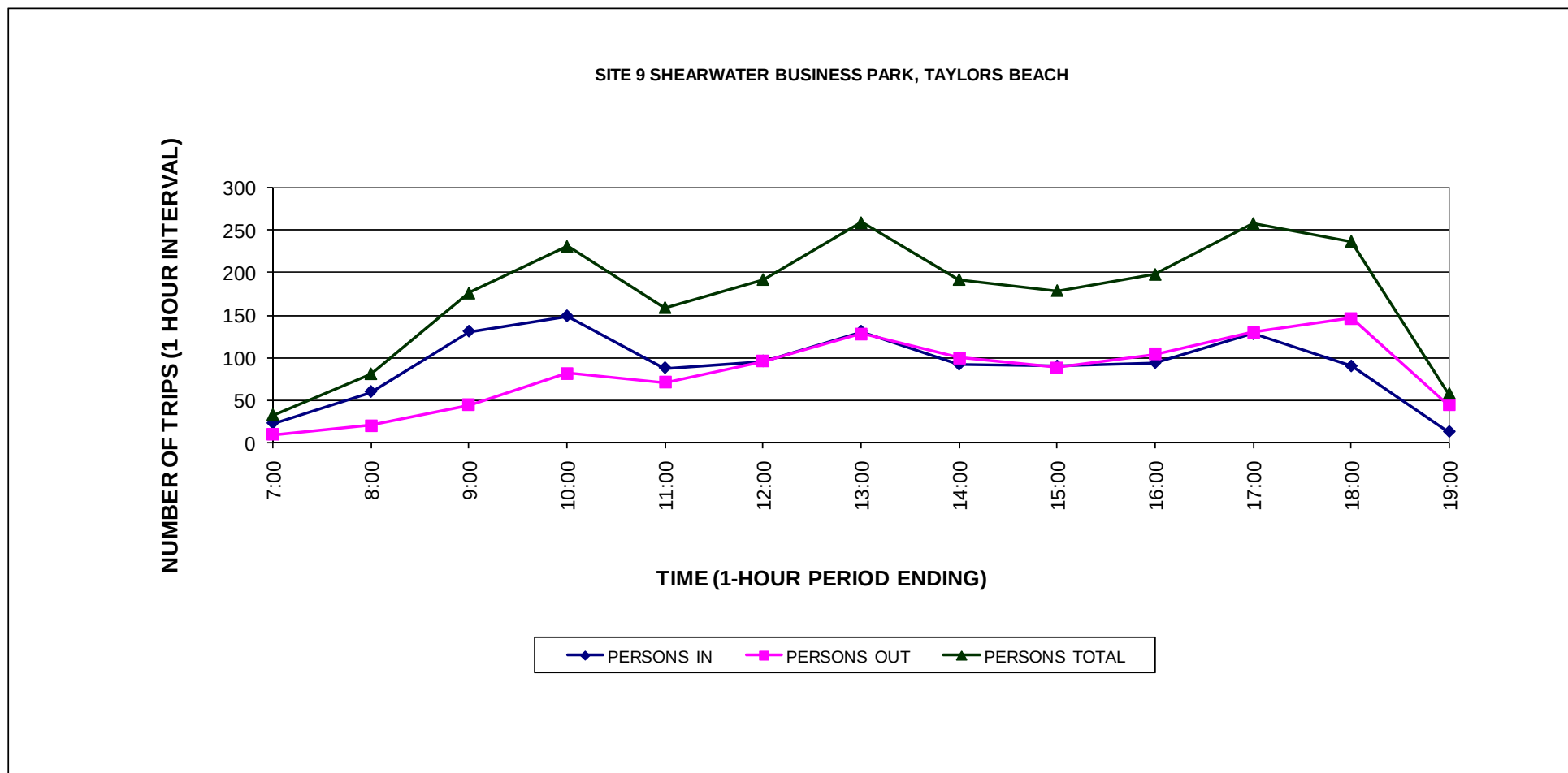


Figure 3.41 Site 9 – Hourly trip distribution - persons.

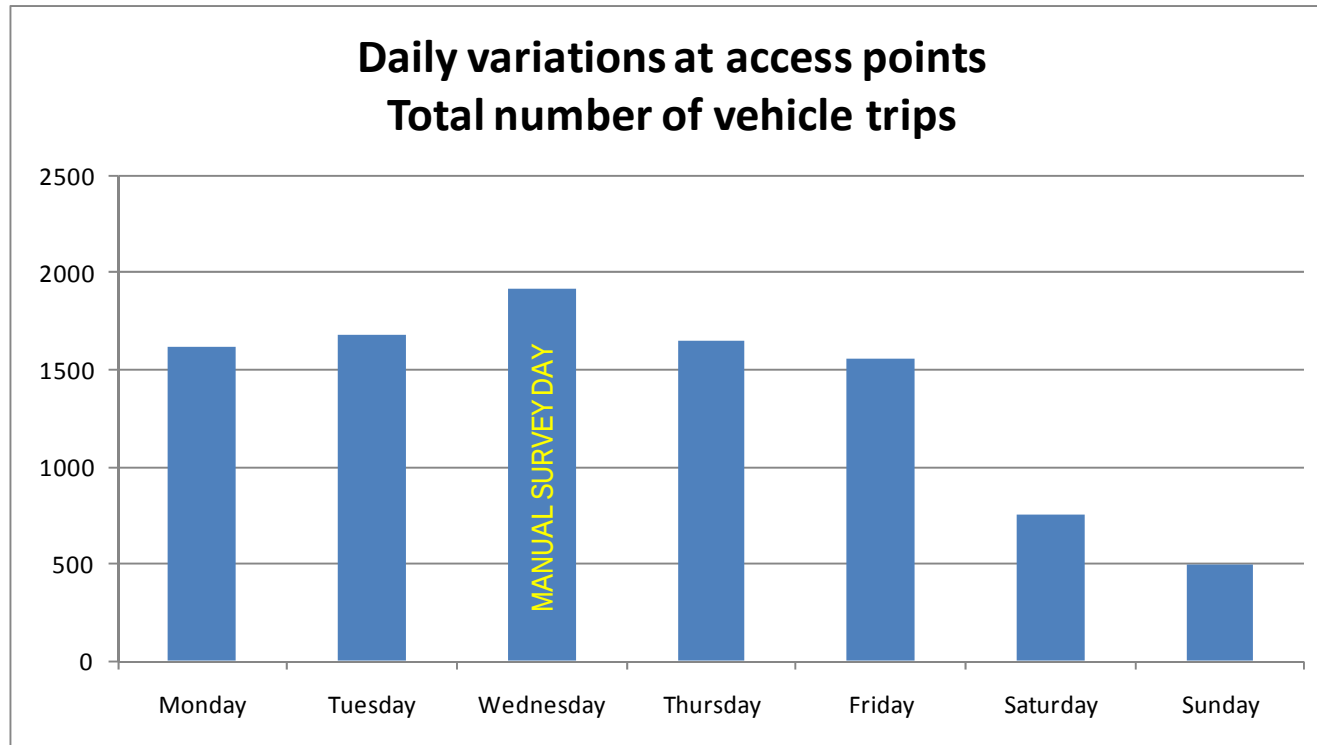


Figure 3.42 Site 9 – Daily trip distribution - vehicles.

3.1.11 Site 9 Shearwater Business Park, Taylors Beach – Special Survey

Table 3.54 Site 9 - Survey Results – 15-minute interval data (Special Survey)

DATE 2 May 2012		SITE 9 SHEARWATER BUSINESS PARK, TAYLORS BEACH																														Grand Total	
15 minute Data		Vehicles										Persons																				15 minute Data	
WEATHER Fine		IN					OUT					IN										OUT											
TIME		TRUCKS				Total	TRUCKS				Total	By car		By bus		TRUCKS				Total	By car		By bus		TRUCKS				Total	Vehicles	Persons		
		Cars	Rigid.	Artic.	Buses		Cars	Rigid.	Artic.	Buses		By rigid.	By artic.	Bikes	Motobike	Pedestrians	Other	By car	By bus		By rigid.	By artic.	Bikes	Motorbikes	Pedestrians	Other							
6:00	to 6:15	3	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3			
6:15	to 6:30	4	0	0	0	4	0	0	0	0	6	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	4	6			
6:30	to 6:45	5	0	0	0	5	2	0	0	0	2	5	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	7	7			
6:45	to 7:00	8	0	0	0	8	0	0	0	0	9	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	8	10				
7:00	to 7:15	7	0	0	0	7	0	1	0	0	1	8	0	0	0	8	0	0	1	0	0	0	0	0	0	0	0	1	8	9			
7:15	to 7:30	11	0	0	0	11	8	0	0	0	8	14	0	0	0	14	9	0	0	0	0	0	0	0	0	0	0	9	19	23			
7:30	to 7:45	11	1	0	0	12	6	0	0	0	6	13	0	1	0	15	6	0	0	0	0	0	0	1	0	0	1	7	18	22			
7:45	to 8:00	18	1	0	0	19	9	0	0	0	9	20	0	1	0	21	14	0	0	0	0	0	0	0	0	0	0	14	28	35			
8:00	to 8:15	18	2	3	0	23	6	2	3	0	11	21	0	2	3	1	0	0	2	3	0	0	0	1	0	0	1	0	15	34	43		
8:15	to 8:30	28	1	0	0	29	7	1	0	0	8	37	0	1	0	38	7	0	1	0	1	0	0	0	0	0	0	9	37	47			
8:30	to 8:45	26	3	0	0	29	17	3	0	0	20	29	0	3	0	32	18	0	3	0	0	0	0	1	0	0	0	22	49	54			
8:45	to 9:00	26	1	0	0	27	12	1	0	0	13	28	0	1	0	32	14	0	1	0	0	0	2	0	0	0	2	17	40	49			
9:00	to 9:15	28	2	0	0	30	9	1	0	0	10	37	0	2	0	41	9	0	1	0	0	0	0	0	0	0	0	10	40	51			
9:15	to 9:30	22	5	0	0	27	20	1	0	0	21	25	0	5	0	31	24	0	1	0	1	0	0	0	0	0	0	26	48	57			
9:30	to 9:45	27	7	0	0	34	18	9	0	0	27	34	0	9	0	51	21	0	11	0	5	1	0	0	0	0	38	61	89				
9:45	to 10:00	28	2	0	0	30	17	3	0	0	20	36	0	2	0	0	21	0	3	0	1	0	2	0	0	0	27	50	66				
10:00	to 10:15	29	5	0	0	34	21	4	0	1	26	39	0	5	0	50	33	10	4	0	1	0	3	0	3	0	51	60	101				
10:15	to 10:30	12	1	0	0	13	12	7	0	0	19	12	0	1	0	18	15	0	7	0	0	0	4	0	0	4	0	26	32	44			
10:30	to 10:45	7	3	0	0	10	6	4	0	0	10	9	0	3	0	16	7	0	4	0	0	0	0	0	0	0	11	20	27				
10:45	to 11:00	19	0	0	0	19	15	0	0	0	15	22	0	0	0	23	15	0	0	0	1	0	3	0	0	3	0	19	34	42			
11:00	to 11:15	28	0	1	0	29	25	1	1	0	27	33	0	0	1	39	26	0	1	1	1	0	4	0	0	3	0	33	56	72			
11:15	to 11:30	10	0	0	0	10	24	0	0	0	24	13	0	0	0	15	26	0	0	0	0	0	2	0	0	2	0	28	34	43			
11:30	to 11:45	16	0	0	0	16	17	0	0	0	17	19	0	0	0	20	25	0	0	0	0	1	0	0	0	0	26	33	46				
11:45	to 12:00	20	4	0	1	25	24	4	0	0	28	28	10	4	0	42	34	0	4	0	0	0	4	0	4	0	42	53	84				
12:00	to 12:15	21	1	0	0	22	31	0	0	0	31	23	0	2	0	26	39	0	0	0	0	0	2	0	2	0	41	53	67				
12:15	to 12:30	25	2	2	0	29	17	2	1	0	20	32	0	2	2	39	26	0	3	1	0	0	3	0	3	0	33	49	72				
12:30	to 12:45	16	2	0	0	18	32	0	1	0	33	19	0	2	0	24	39	0	0	1	0	0	3	0	3	0	43	51	67				
12:45	to 13:00	22	1	1	0	24	19	2	1	0	22	25	0	1	1	29	27	0	2	1	0	0	4	0	4	0	34	46	63				
13:00	to 13:15	26	1	0	0	27	24	2	0	0	26	34	0	1	0	37	34	0	3	0	0	0	1	0	1	0	38	53	75				
13:15	to 13:30	16	3	0	0	19	12	1	0	0	13	21	0	3	0	27	13	0	1	0	0	0	2	0	2	0	16	32	43				
13:30	to 13:45	21	1	0	0	22	10	1	0	0	11	23	0	1	0	24	11	0	1	0	1	0	3	0	3	0	16	33	40				
13:45	to 14:00	14	1	0	0	15	31	3	0	0	34	15	0	2	0	17	39	0	4	0	0	0	0	0	0	0	43	49	60				
14:00	to 14:15	27	1	0	0	28	24	1	0	0	25	29	0	1	0	31	28	0	1	0	0	0	0	0	0	0	29	53	60				
14:15	to 14:30	19	0	1	0	20	20	1	0	0	21	22	0	0	1	24	23	0	1	0	1	0	0	0	0	0	25	41	49				
14:30	to 14:45	12	1	1	0	14	14	0	1	0	15	14	0	1	1	18	16	0	0	1	0	0	0	0	0	0	17	29	35				
14:45	to 15:00	21	1	0	0	22	17	1	1	0	19	24	0	1	0	26	18	0	1	1	2	0	1	0	1	0	23	41	49				
15:00	to 15:15	16	2	0	0	18	13	2	0	0	15	22	0	2	0	25	15	0	2	0	0	0	0	0	0	0	17	33	42				
15:15	to 15:30	19	1	0	0	20	20	1	0	0	21	19	0	1	0	20	24	0	1	0	0	0	0	0	0	0	25	41	45				
15:30	to 15:45	9	2	0	0	11	24	0	0	0	24	9	0	2	0	11	27	0	0	0	0	0	0	0	0	0	27	35	38				
15:45	to 16:00	19	0	0	0	19	15	2	0	0	17	24	0	0	0	24	16	0	2	0	1	0	0	0	0	0	19	36	43				
16:00	to 16:15	18	0	0	0	18	26	0	0	0	26	26	0	0	0	26	33	0	0	0	0	0	0	0	0	0	33	44	59				
16:15	to 16:30	41	0	0	0	41	28	0	0	0	28	69	0	0	0	69	37	0	0	0	0	0	0	0	0	0	37	69	106				
16:30	to 16:45	14	2	1	0	17	20	1	0	0	21	17	0	2	1	23	23	0	2	0	0	0	0	0	0	0	25	38	48				
16:45	to 17:00	11	1	0	0	12	29	1	1	0	31	15	0	1	0	16	34	0	1	1	0	0	0	0	0	0	36	43	52				
17:00	to 17:15	15	0	0	0	15	40	0	0	0	40	20	0	0	0	20	52	0	0	0	0	0	0	0	0	0	52	55	72				
17:15	to 17:30	29	1	0	0	30	39	0	0	0	39	42	0	1	0	43	72	0	0	0	0	0	0	0	0	0	72	69	115				
17:30	to 17:45	13	1	0	0	14	12	0	0	0	12	20	0	1	0	21	15	0	0	0	0	0	0	0	0	0	15	26	36				
17:45	to 18:00	6	0	0	0	6	13	2	0	0	15	9	0	0	0	9	16	0	2	0	0	0	0	0	0	0	18	21	27				
18:00	to 18:15	5	0	0	0	5	19	0	0	0	19	12	0	0	0	12	27	0	0	0	0	0	0	0	0	0	27	24	39				
18:15	to 18:30	13	0	0	0	13	10	0	0	0	10	24	0	0	0	24	12	0	0	0	1	0	0	0	0	0	13	23	37				
18:30	to 18:45	1	0	0	0	1	17	0	0	0	17	1	0	0	0	1	38	0	0	0	0	0	0	0	0	0	38	18	39				
18:45	to 19:00	1	0	0	0	1	4	0	0	0	4	1	0	0	0	1	8	0	0	0	0	0	0	0	0	0	8	5	9				
TOTAL		881	63	10	1	955	855	65	10	1	931	1111	10	67																			

Table 3.55 Site 9 - Survey Results – Hourly data - rolling at 15 minute intervals (Special Survey)

DATE 2 May 2012		SITE 9 SHEARWATER BUSINESS PARK, TAYLORS BEACH																														Grand Total			
1-hour Data		Vehicles										Persons																				1-hour Data			
WEATHER Fine		IN					OUT					IN										OUT													
TIME		TRUCKS			Buses	Total	TRUCKS			Buses	Total	By car		By bus	TRUCKS		By rigid.	By artic.	Bikes	Motobike	Pedestrians	Other	Total	By car		By bus	TRUCKS		By rigid.	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
6:00 to 7:00	20	0	0	0	0	20	2	0	0	0	2	23	0	0	0	0	1	0	0	0	0	0	24	2	0	0	0	0	0	0	0	0	0	2	
6:15 to 7:15	24	0	0	0	0	24	2	1	0	0	3	28	0	0	0	0	1	0	0	0	0	0	29	2	0	0	1	0	0	0	0	0	0	3	
6:30 to 7:30	31	0	0	0	0	31	10	1	0	0	11	36	0	0	0	0	1	0	0	0	0	0	37	11	0	1	0	0	0	0	0	0	0	12	
6:45 to 7:45	37	1	0	0	0	38	14	1	0	0	15	44	0	1	0	0	1	0	0	1	0	0	47	15	0	1	0	0	0	0	1	0	0	17	
7:00 to 8:00	47	2	0	0	0	49	23	1	0	0	24	55	0	2	0	0	0	0	0	1	0	0	58	29	0	1	0	0	0	0	1	0	0	31	
7:15 to 8:15	58	4	3	0	0	65	29	2	3	0	34	68	0	4	3	1	0	2	0	2	0	78	38	0	2	3	0	0	0	2	0	0	45		
7:30 to 8:30	75	5	3	0	0	83	28	3	3	0	34	91	0	5	3	1	0	2	0	2	0	102	36	0	3	3	1	0	0	2	0	0	45		
7:45 to 8:45	90	7	3	0	0	100	39	6	3	0	48	107	0	7	3	1	0	1	0	1	0	119	48	0	6	3	1	0	0	2	0	0	60		
8:00 to 9:00	98	7	3	0	0	108	42	7	3	0	52	115	0	7	3	2	0	3	0	3	0	130	48	0	7	3	1	0	0	4	0	0	63		
8:15 to 9:15	108	7	0	0	0	115	45	6	0	0	51	131	0	7	0	1	0	4	0	4	0	143	48	0	6	0	1	0	0	3	0	0	58		
8:30 to 9:30	102	11	0	0	0	113	58	6	0	0	64	119	0	11	0	2	0	4	0	4	0	136	65	0	6	0	1	0	3	0	0	75			
8:45 to 9:45	103	15	0	0	0	118	59	12	0	0	71	124	0	17	0	8	1	5	0	5	0	155	68	0	14	0	6	1	2	0	0	91			
9:00 to 10:00	105	16	0	0	0	121	64	14	0	0	78	132	0	18	0	7	1	4	0	4	0	162	75	0	16	0	7	1	2	0	0	101			
9:15 to 10:15	106	19	0	0	0	125	76	17	0	1	94	134	0	21	0	8	1	7	0	7	0	171	99	10	19	0	8	1	5	0	0	142			
9:30 to 10:30	96	15	0	0	0	111	68	23	0	1	92	121	0	17	0	7	2	11	0	11	0	158	90	10	25	0	7	1	9	0	0	142			
9:45 to 10:45	76	11	0	0	0	87	56	18	0	1	75	96	0	11	0	1	1	14	0	14	0	123	76	10	18	0	2	0	9	0	0	115			
10:00 to 11:00	67	9	0	0	0	76	54	15	0	1	70	82	0	9	0	1	1	14	0	14	0	107	70	10	15	0	2	0	10	0	0	107			
10:15 to 11:15	66	4	1	0	0	71	58	12	1	0	71	76	0	4	1	2	3	10	0	9	0	96	63	0	12	1	2	0	11	0	0	89			
10:30 to 11:30	64	3	1	0	0	68	70	5	1	0	76	77	0	3	1	2	2	8	0	8	0	93	74	0	5	1	2	0	9	0	0	91			
10:45 to 11:45	73	0	1	0	0	74	81	1	1	0	83	87	0	0	1	2	2	5	0	5	0	97	92	0	1	1	2	1	9	0	0	106			
11:00 to 12:00	74	4	1	1	1	80	90	5	1	0	96	93	10	4	1	2	2	4	0	4	0	116	111	0	5	1	1	1	10	0	0	129			
11:15 to 12:15	67	5	0	1	0	73	96	4	0	0	100	83	10	6	0	0	0	4	0	4	0	103	124	0	4	0	0	1	8	0	0	137			
11:30 to 12:30	82	7	2	1	0	92	89	6	1	0	96	102	10	8	2	0	0	5	0	5	0	127	124	0	7	1	0	1	9	0	0	142			
11:45 to 12:45	82	9	2	1	0	94	104	6	2	0	112	102	10	10	2	0	0	7	0	7	0	131	138	0	7	2	0	0	12	0	0	159			
12:00 to 13:00	84	6	3	0	0	93	99	4	3	0	106	99	0	7	3	0	0	9	0	9	0	118	131	0	5	3	0	0	0	12	0	0	151		
12:15 to 13:15	89	6	3	0	0	98	92	6	3	0	101	110	0	6	3	1	0	9	0	9	0	129	126	0	8	3	0	0	0	11	0	0	148		
12:30 to 13:30	80	7	1	0	0	88	87	5	2	0	94	99	0	7	1	1	0	9	0	9	0	117	113	0	6	2	0	0	10	0	0	131			
12:45 to 13:45	85	6	1	0	0	92	65	6	1	0	72	103	0	6	1	1	0	6	0	6	0	117	85	0	7	1	1	1	10	0	0	104			
13:00 to 14:00	77	6	0	0	0	83	77	7	0	0	84	93	0	7	0	1	0	4	0	4	0	105	97	0	9	0	1	0	6	0	0	113			
13:15 to 14:15	78	6	0	0	0	84	77	6	0	0	83	88	0	7	0	0	0	4	0	4	0	99	91	0	7	0	0	1	5	0	0	104			
13:30 to 14:30	81	3	1	0	0	85	85	6	0	0	91	89	0	4	1	1	0	1	0	1	0	96	101	0	7	0	2	0	3	0	0	113			
13:45 to 14:45	72	3	2	0	0	77	89	5	1	0	95	80	0	4	2	2	0	2	0	2	0	90	106	0	6	1	1	1	0	0	0	114			
14:00 to 15:00	79	3	2	0	0	84	75	3	2	0	80	89	0	3	2	3	0	2	0	2	0	99	85	0	3	2	3	0	1	0	0	94			
14:15 to 15:15	68	4	2	2	0	74	64	4	2	0	70	82	0	4	2	4	0	1	0	1	0	93	72	0	4	2	3	0	1	0	0	82			
14:30 to 15:30	68	5	1	0	0	74	64	4	2	0	70	79	0	5	1	3	0	1	0	1	0	89	73	0	4	2	2	0	1	0	0	82			
14:45 to 15:45	65	6	0	0	0	71	74	4	1	0	79	74	0	6	0	2	0	0	0	0	0	82	84	0	4	1	2	0	1	0	0	92			
15:00 to 16:00	63	5	0	0	0	68	72	5	0	0	77	74	0	5	0	1	0	0	0	0	0	80	82	0	5	0	1	0	0	0	0	88			
15:15 to 16:15	65	3	0	0	0	68	85	3	0	0	88	78	0	3	0	0	0	0	0	0	0	81	100	0	3	0	1	0	0	0	0	104			
15:30 to 16:30	87	2	0	0	0	89	93	2	0	0	95	128	0	2	0	0	0	0	0	0	0	130	113	0	2	0	1	0	0	0	0	116			
15:45 to 16:45	92	2	1	0	0	95	89	3	0	0	92	136	0	2	1	0	0	3	0	3	0	142	109	0	4	0	1	0	0	0	0	114			
16:00 to 17:00	84	3	1	0	0	88	103	2	1	0	106	127	0	3	1	0	0	3	0	3	0	134	127	0	3	1	0	0	0	0	0	131			
16:15 to 17:15	81	3	1	0	0	85	117	2	1	0	120	121	0	3	1	0	0	3	0	3	0	128	146	0	3	1	0	0	0	0	0	150			
16:30 to 17:30	69	4	1	0	0	74	128	2	1	0	131	94	0	4	1	0	0	3	0	3	0	102	181	0	3	1	0	0	0	0	0	185			
16:45 to 17:45	68	3	0	0	0	71	120	1	1	0	122	97	0	3	0	0	0	0	0	0	0	100	173	0	1	1	0	0	0	0	0	175			
17:00 to 18:00	63	2	0	0	0	65	104	2	0	0	106	91	0	2	0	0	0	0	0	0	0	93	155	0	2	0	0	0	0	0	0	157			
17:15 to 18:15	53	2	0	0	0	55	83	2	0	0	85	83	0	2	0	0	0	0	0	0	0	85	130	0	2	0	0	0	0	0	0	132			
17:30 to 18:30	37	1	0	0	0	38	54	2	0	0	56	65	0	1	0	0	0	0	0	0	0	66	70	0	2	0	1	0	0	0	0	73			
17:45 to 18:45	25	0	0	0	0	25	59	2	0	0	61	46	0	0	0	0	0	0	0	0	0	46	93	0	2	0	1	0	0	0	0	96			
18:00 to 19:00	20	0	0	0	0	20	50	0	0	0	50	38	0	0	0	0	0	0	0	0	0	38	85	0	0	0	1	0	0	0	0	86			

Table 3.56 Site 9 - Peak hours (Special Survey)

Peak hour	Vehicles										Persons																	
Vehicles	IN					OUT					IN										OUT							
	TRUCKS					TRUCKS					TRUCKS					TRUCKS												
AM	Cars	Rigid.	Artic.	Buses	Total	Cars	Rigid.	Artic.	Buses	Total	By car	By bus	By rigid.	By artic.	Bikes	Motorbike	Pedestrians	Other	Total	By car	By bus	By rigid.	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
9:15 to 10:15	106	19	0	0	125	76	17	0	1	94	134	0	21	0	8	1	7	0	171	99	10	19	0	8	1	5	0	142
PM																												
16:30 to 17:30	69	4	1	0	74	128	2	1	0	131	94	0	4	1	0	0	3	0	102	181	0	3	1	0	0	0	0	185
Peak hour	Vehicles										Persons																	
Persons	IN					OUT					IN										OUT							
	TRUCKS					TRUCKS					TRUCKS					TRUCKS												
AM	Cars	Rigid.	Artic.	Buses	Total	Cars	Rigid.	Artic.	Buses	Total	By car	By bus	By rigid.	By artic.	Bikes	Motorbike	Pedestrians	Other	Total	By car	By bus	By rigid.	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
9:15 to 10:15	106	19	0	0	125	76	17	0	1	94	134	0	21	0	8	1	7	0	171	99	10	19	0	8	1	5	0	142
PM																												
16:30 to 17:30	69	4	1	0	74	128	2	1	0	131	94	0	4	1	0	0	3	0	102	181	0	3	1	0	0	0	0	185

Table 3.57 Site 9 - Hourly data - consecutive

DATE 2 May 2012		SITE 9 SHEARWATER BUSINESS PARK, TAYLORS BEACH																												Grand Total		
1-hour Data		Vehicles										Persons																		1-hour Data		
WEATHER Fine	TIME	IN					OUT					IN										OUT								Vehicles	Persons	
		TRUCKS			Buses	Total	TRUCKS			Buses	Total	By car	By bus	TRUCKS			Bikes	Motorbike	Pedestrians	Other	Total	By car	By bus	TRUCKS			Bikes	Motorbikes	Pedestrians			Other
Cars	Rigid.	Artic.	Cars	Rigid.			Artic.	Cars	Rigid.					Artic.	By rigid.	By artic.								Bikes	Motobike	Pedestrians				Other	By car	
	6:00 to 7:00	20	0	0	0	20	2	0	0	0	2	23	0	0	0	1	0	0	0	24	2	0	0	0	0	0	0	0	0	2	22	26
	7:00 to 8:00	47	2	0	0	49	23	1	0	0	24	55	0	2	0	0	1	0	58	29	0	1	0	0	0	1	0	31	73	89		
	8:00 to 9:00	98	7	3	0	108	42	7	3	0	52	115	0	7	3	2	0	3	130	48	0	7	3	1	0	4	0	63	160	193		
	9:00 to 10:00	105	16	0	0	121	64	14	0	0	78	132	0	18	0	7	1	4	162	75	0	16	0	7	1	2	0	101	199	263		
	10:00 to 11:00	67	9	0	0	76	54	15	0	1	70	82	0	9	0	1	1	14	107	70	10	15	0	2	0	10	0	107	146	214		
	11:00 to 12:00	74	4	1	1	80	90	5	1	0	96	93	10	4	1	2	2	4	116	111	0	5	1	1	1	10	0	129	176	245		
	12:00 to 13:00	84	6	3	0	93	99	4	3	0	106	99	0	7	3	0	0	9	118	131	0	5	3	0	0	12	0	151	199	269		
	13:00 to 14:00	77	6	0	0	83	77	7	0	0	84	93	0	7	0	1	0	4	105	97	0	9	0	1	0	6	0	113	167	218		
	14:00 to 15:00	79	3	2	0	84	75	3	2	0	80	89	0	3	2	3	0	2	99	85	0	3	2	3	0	1	0	94	164	193		
	15:00 to 16:00	63	5	0	0	68	72	5	0	0	77	74	0	5	0	1	0	0	80	82	0	5	0	1	0	0	0	88	145	168		
	16:00 to 17:00	84	3	1	0	88	103	2	1	0	106	127	0	3	1	0	0	3	134	127	0	3	1	0	0	0	0	131	194	265		
	17:00 to 18:00	63	2	0	0	65	104	2	0	0	106	91	0	2	0	0	0	0	93	155	0	2	0	0	0	0	0	157	171	250		
	18:00 to 19:00	20	0	0	0	20	50	0	0	0	50	38	0	0	0	0	0	0	38	85	0	0	0	1	0	0	0	86	70	124		
	Total	881	63	10	1	955	855	65	10	1	931	1111	10	67	10	18	4	44	0	1264	1097	10	71	10	17	2	46	0	1253	1886	2517	

The results of the survey indicate the following:

Total number of vehicular trips from individual businesses combined is greater than that counted at the site entry by 7%.

Total number of person trips from individual businesses combined is greater than that counted at the site entry by 12%. The greater difference in percentage for person trips is believed to be due to persons who drove to a specific business, parked their car and then walked to other business outlets.

The greater difference between the main and special survey results, compared with that for Site 8, is believed to be due to smaller size industry/warehousing businesses with retail trade for general public on Site 9. Customers of some businesses were observed visiting the outlets of the neighbouring businesses.

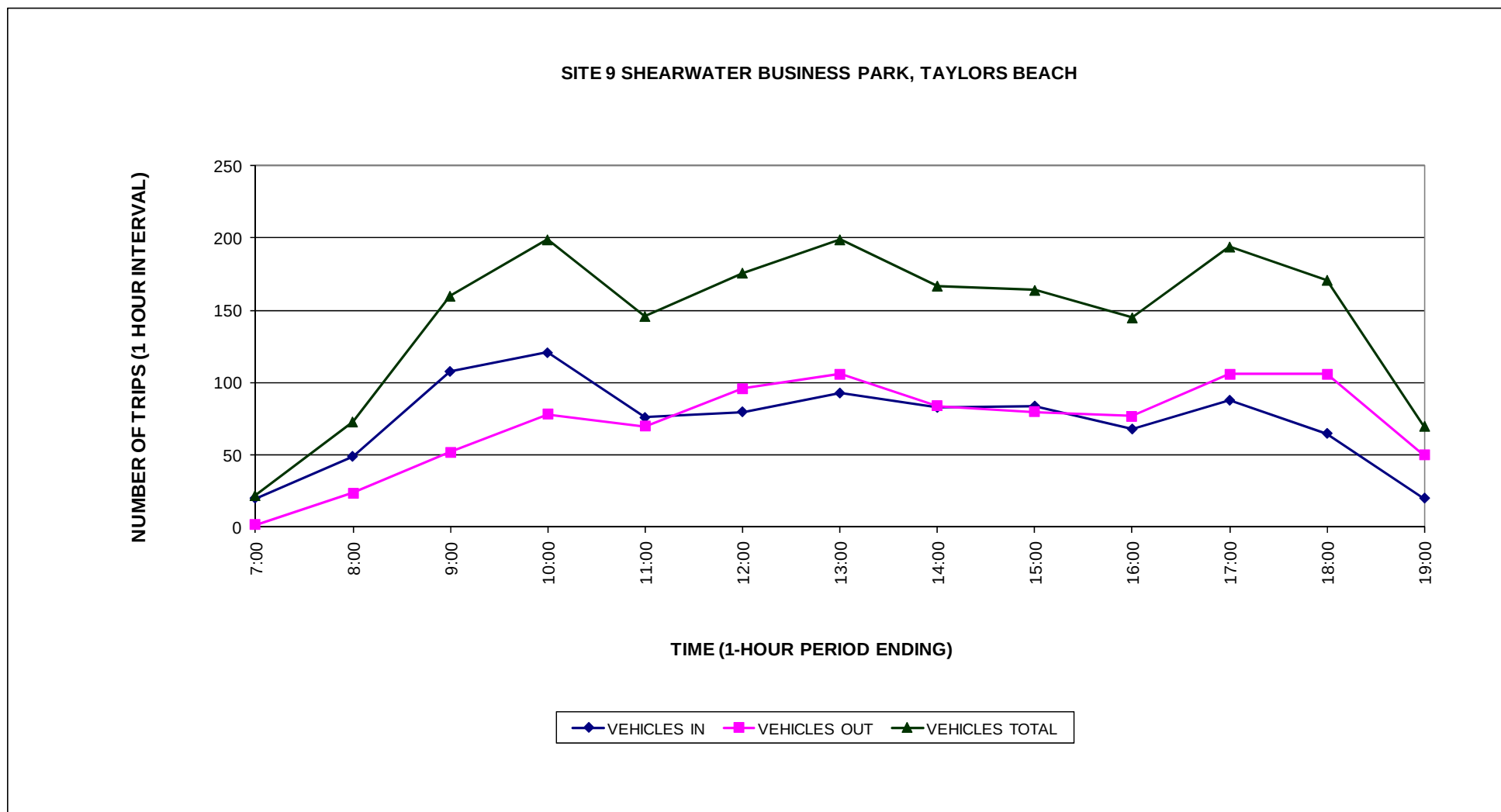


Figure 3.43 Site 9 - Special survey – Hourly trip distribution - vehicles.

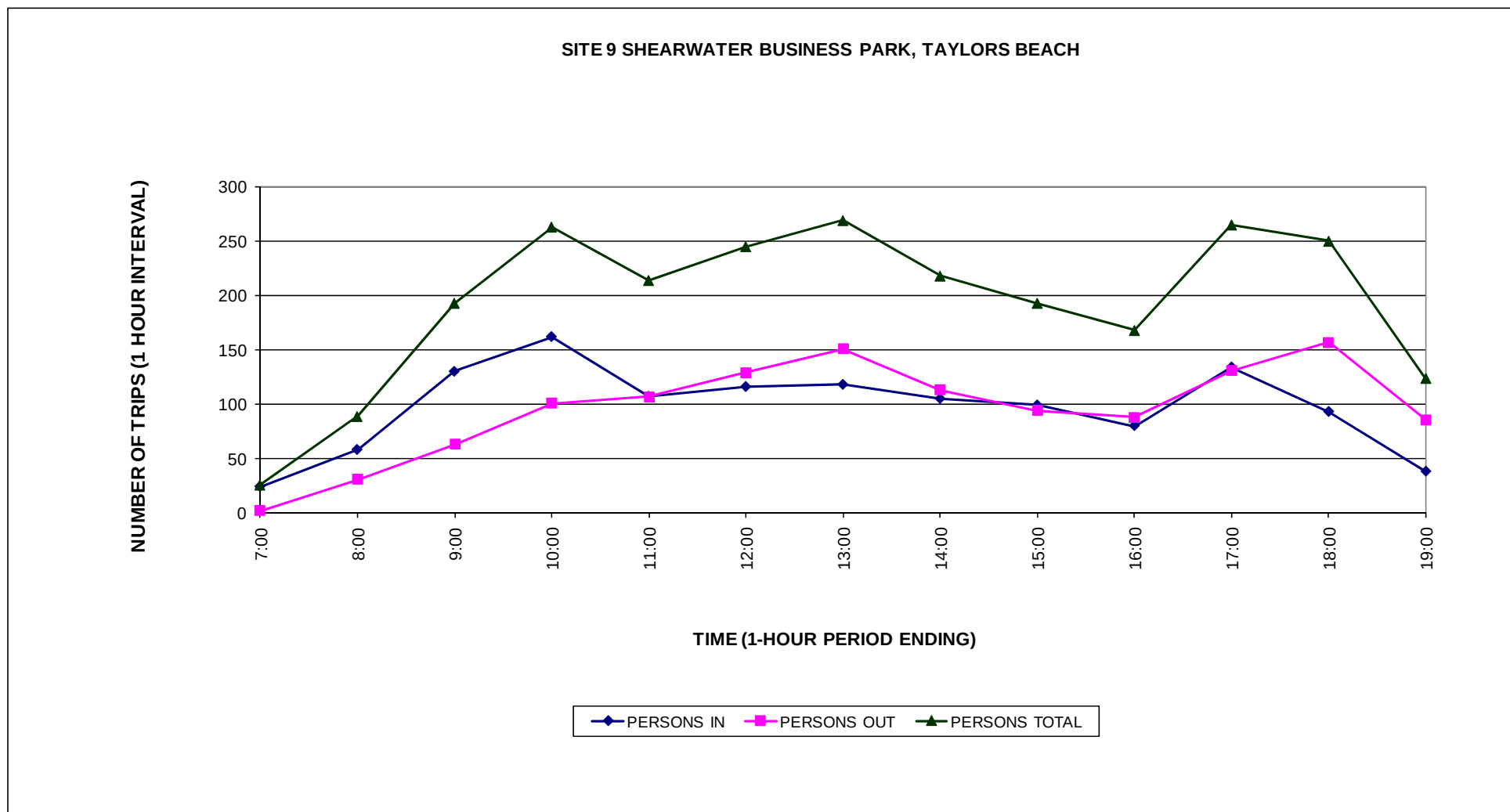


Figure 3.44 Site 9 – Hourly trip distribution - persons.

Table 3.58 Site 10 - Survey Results – 15-minute interval data

Table 3.58 Site 10 - Survey Results – 15-minute interval data

DATE 2 May 2012		SITE 10 PORT STEPHENS INDUSTRIAL ESTATE, TAYLORS BEACH																												Grand Total						
15 minute Data		Vehicles										Persons																		15 minute Data						
WEATHER	Fine	IN				OUT				IN																		OUT						Vehicles	Persons	
		TRUCKS			Buses	Total	TRUCKS			Buses	Total	TRUCKS						Bikes	Motorbikes	Pedestrians	Other	Total	TRUCKS			Bikes	Motorbikes	Pedestrians	Other	Total						
		Cars	Rigid	Artic.			Cars	Rigid	Artic.			By car	By bus	By rigid	By artic.	Bikes	Motorbikes						Pedestrians	Other	Total						By car	By bus	By rigid			By artic.
6:00	to 6:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6:15	to 6:30	3	0	0	0	0	3	0	0	0	0	0	4	0	0	0	0	1	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	3	5
6:30	to 6:45	13	0	0	0	0	13	4	0	0	0	4	14	0	0	0	0	0	0	0	0	0	0	14	5	0	0	0	0	0	0	0	0	5	17	19
6:45	to 7:00	14	1	0	0	0	15	6	1	0	0	7	15	0	0	1	0	0	0	0	0	0	15	6	0	2	0	0	0	0	0	0	0	8	22	24
7:00	to 7:15	5	0	0	0	5	7	1	0	0	0	5	8	0	0	0	8	0	0	0	0	0	5	7	0	1	0	0	0	0	0	0	8	13	13	
7:15	to 7:30	5	0	0	0	5	8	0	0	0	0	8	5	0	0	0	5	0	0	0	0	0	10	9	0	0	0	0	0	0	0	0	9	17	19	
7:30	to 7:45	4	0	0	0	4	5	0	0	0	0	5	5	0	0	2	3	0	0	1	0	0	6	5	0	0	0	0	1	1	0	0	7	9	13	
7:45	to 8:00	15	0	0	0	0	15	6	0	0	0	6	16	0	0	0	0	0	0	0	0	16	6	0	0	0	0	0	0	0	0	0	6	21	22	
8:00	to 8:15	10	3	0	0	0	13	5	1	0	0	6	11	0	3	0	0	0	0	0	0	14	6	0	1	0	0	0	0	0	0	0	7	19	21	
8:15	to 8:30	7	0	0	0	0	7	6	1	0	0	7	10	0	0	0	0	0	0	0	0	10	10	0	1	0	0	0	0	0	0	0	11	14	21	
8:30	to 8:45	4	2	0	0	0	6	4	0	0	0	4	5	0	3	0	0	0	0	0	0	8	7	0	0	0	0	0	0	0	0	0	7	10	15	
8:45	to 9:00	11	1	0	0	0	12	6	3	0	0	9	14	0	1	0	0	0	7	0	0	22	8	0	4	0	1	1	0	0	0	0	14	21	36	
9:00	to 9:15	5	0	0	0	0	5	9	1	0	0	10	5	0	0	0	0	0	1	0	0	6	12	0	1	0	1	0	0	0	0	0	14	15	20	
9:15	to 9:30	3	0	0	0	0	3	8	0	0	0	8	4	0	0	0	0	0	0	0	0	4	9	0	0	0	0	0	0	1	0	0	10	11	14	
9:30	to 9:45	11	0	0	0	0	11	5	0	0	0	5	15	0	0	0	0	1	0	0	0	16	6	0	0	0	1	1	0	0	0	0	8	16	24	
9:45	to 10:00	7	0	0	0	0	7	7	0	0	0	7	8	0	0	0	0	1	0	0	0	9	8	0	0	0	0	0	3	0	0	0	11	14	20	
10:00	to 10:15	8	2	0	0	0	10	6	1	0	0	7	9	0	2	0	0	0	0	0	11	9	0	1	0	0	1	0	0	0	0	11	17	22		
10:15	to 10:30	12	1	0	0	0	13	0	0	0	0	0	12	0	1	0	0	0	1	0	0	14	0	0	0	0	0	0	0	0	0	0	0	13	14	
10:30	to 10:45	10	0	0	0	0	10	7	0	0	0	7	11	0	0	0	0	0	0	0	11	7	0	0	0	0	0	0	0	0	0	0	7	17	18	
10:45	to 11:00	8	1	0	0	0	9	11	2	0	0	13	9	0	1	0	0	0	1	0	0	11	14	0	2	0	0	0	2	0	0	0	18	22	29	
11:00	to 11:15	6	2	0	0	0	8	5	0	0	0	5	7	0	3	0	0	0	0	0	10	5	0	0	0	0	0	0	0	0	0	5	13	15		
11:15	to 11:30	8	1	0	0	0	9	6	1	0	0	7	11	0	1	0	0	0	0	0	12	9	0	1	0	0	0	0	0	0	0	10	16	22		
11:30	to 11:45	8	2	1	0	0	11	17	0	0	0	17	8	0	2	1	0	0	0	0	11	19	0	0	0	0	0	0	0	0	0	19	28	30		
11:45	to 12:00	8	0	0	0	0	8	8	1	0	0	9	8	0	0	0	1	0	0	0	9	8	0	1	0	0	0	0	0	0	0	9	17	18		
12:00	to 12:15	13	0	0	0	0	13	9	3	0	0	12	16	0	0	0	0	0	0	0	16	11	0	3	0	0	0	0	0	0	0	14	25	30		
12:15	to 12:30	8	0	0	0	0	8	9	0	0	0	9	10	0	0	0	0	1	0	0	11	10	0	0	0	0	0	0	0	0	0	10	17	21		
12:30	to 12:45	12	1	0	0	0	13	8	1	0	0	9	16	0	1	0	0	0	0	0	17	10	0	2	0	0	0	0	0	0	0	12	22	29		
12:45	to 13:00	6	0	0	0	0	6	12	1	0	0	13	7	0	0	0	0	0	0	0	7	15	0	1	0	0	0	0	0	0	0	16	19	23		
13:00	to 13:15	13	11	0	0	0	24	10	0	0	0	10	16	0	11	0	0	2	0	0	29	12	0	0	0	0	1	0	0	0	0	13	34	42		
13:15	to 13:30	7	1	0	0	0	8	4	3	0	0	7	8	0	1	0	0	7	0	0	16	5	0	3	0	0	0	0	0	0	0	8	15	24		
13:30	to 13:45	5	0	0	0	0	5	8	0	0	0	8	7	0	0	0	0	0	0	0	7	11	0	0	0	0	0	0	0	0	0	11	13	18		
13:45	to 14:00	7	0	0	0	0	7	9	0	0	0	9	10	0	0	0	0	1	0	0	11	12	0	0	0	0	0	1	0	0	0	13	16	24		
14:00	to 14:15	8	1	0	0	0	9	9	0	0	0	9	11	0	1	0	0	0	0	0	12	10	0	0	0	0	0	0	0	0	0	10	18	22		
14:15	to 14:30	8	1	0	0	0	9	11	2	0	0	13	9	0	2	0	0	0	0	0	11	14	0	3	0	0	0	0	0	0	0	17	22	28		
14:30	to 14:45	6	1	0	0	0	7	5	2	0	0	7	7	0	1	0	0	1	0	0	9	6	0	2	0	0	0	0	0	0	0	8	14	17		
14:45	to 15:00	6	0	0	0	0	6	7	0	0	0	7	8	0	0	0	0	4	0	0	12	9	0	0	0	0	0	0	0	0	0	9	13	21		
15:00	to 15:15	2	3	0	0	0	5	10	0	0	0	10	2	0	3	0	0	1	0	0	6	13	0	0	0	0	0	0	0	0	0	13	15	19		
15:15	to 15:30	4	1	0	0	0	5	5	0	0	0	5	5	0	2	0	0	1	0	0	8	5	0	0	0	0	0	0	0	0	0	5	10	13		
15:30	to 15:45	4	2	0	0	0	6	19	2	0	0	21	5	0	2	0	0	0	0	0	7	22	0	3	0	0	0	0	0	0	0	27	32	38		
15:45	to 16:00	9	1	0	0	0	10	14	2	0	0	16	13	0	1	0	0	1	0	14	16	0	2	0	1	0	0	1	0	0	10	26	33			
16:00	to 16:15	5	0	0	0	0	5	5	0	0	0	8	5	0	0	0	8	0	0	5	15	10	0	0	0	0	0	0	0	0	10	8	15	15		
16:15	to 16:30	3	0	0	0	0	3	8	7	0	0	7	6	0	0	0	2	0	0	0	8	7	0	0	0	0	0	0	0	0	0	7	10	15		
16:30	to 16:45	3	0	0	0	0	3	5	0	0	0	5	3	0	0	0	0	0	0	0	3	6	0	0	0	0	0	0	1	0	0	7	8	10		
16:45	to 17:00	3	0	0	0	0	3	8	0	0	0	8	3	0	0	0	0	0	0	0	3	11	0	0	0	0	0	0	0	0	0	11	11	14		
17:00	to 17:15	1	0	0	0	0	1	12	0	0	0	12	1	0	0	0	0	1	0	2	14	0	0	0	0	1	0	0	0	0	15	13	17			
17:15	to 17:30	2	0	0	0	0	2	3	0	0	0	3	2	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	4	5	6			
17:30	to 17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
17:45	to 18:00	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1		
18:00	to 18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
18:15	to 18:30	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1		
18:30	to 18:45	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1		
18:45	to 19:00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0</											

Table 3.59 Site 10 - Survey Results – Hourly data - rolling at 15 minute intervals

DATE 2 May 2012 1-hour Data WEATHER Fine		SITE 10 PORT STEPHENS INDUSTRIAL ESTATE, TAYLORS BEACH																												Grand Total	
		Vehicles										Persons																		1-hour Data Vehicles / Persons	
		IN					OUT					IN									OUT										
		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total		
TIME	Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total			
6:00 to 7:00	30	1	0	0	31	10	1	0	0	11	33	0	1	0	1	0	0	0	35	11	0	2	0	0	0	0	0	13	42	48	
6:15 to 7:15	35	1	0	0	36	17	2	0	0	19	38	0	1	0	1	0	0	0	40	18	0	3	0	0	0	0	21	55	61		
6:30 to 7:30	37	2	3	0	42	25	2	0	0	27	39	0	3	3	0	0	0	0	45	27	0	3	0	0	0	0	30	69	75		
6:45 to 7:45	28	2	3	0	33	26	2	0	0	28	30	0	3	3	0	1	0	0	37	27	0	3	0	1	1	0	32	61	66		
7:00 to 8:00	29	1	3	0	33	26	1	0	0	27	31	0	2	3	0	1	0	0	37	27	0	1	0	1	1	0	30	60	67		
7:15 to 8:15	34	4	3	0	41	24	1	0	0	25	37	0	5	3	0	1	0	0	46	26	0	1	0	1	1	0	29	66	75		
7:30 to 8:30	36	3	0	0	39	22	2	0	0	24	42	0	3	0	0	1	0	0	46	27	0	2	0	1	1	0	31	63	77		
7:45 to 8:45	36	5	0	0	41	21	2	0	0	23	42	0	6	0	0	0	0	0	48	29	0	2	0	0	0	0	31	64	79		
8:00 to 9:00	32	6	0	0	38	21	5	0	0	26	40	0	7	0	0	7	0	0	54	31	0	6	0	1	1	0	39	64	93		
8:15 to 9:15	27	3	0	0	30	25	5	0	0	30	34	0	4	0	0	8	0	0	46	37	0	6	0	2	1	0	46	60	92		
8:30 to 9:30	23	3	0	0	26	27	4	0	0	31	28	0	4	0	0	8	0	0	40	36	0	5	0	2	1	1	0	45	57	85	
8:45 to 9:45	30	1	0	0	31	28	4	0	0	32	38	0	1	0	1	8	0	0	48	35	0	5	0	3	2	1	0	46	63	94	
9:00 to 10:00	26	0	0	0	26	29	1	0	0	30	32	0	0	0	2	1	0	0	35	35	0	1	0	2	4	1	0	43	56	78	
9:15 to 10:15	29	2	0	0	31	26	1	0	0	27	36	0	2	0	2	0	0	0	40	32	0	1	0	1	5	1	0	40	58	80	
9:30 to 10:30	38	3	0	0	41	18	1	0	0	19	44	0	3	0	2	0	1	0	50	23	0	1	0	1	5	0	30	60	80		
9:45 to 10:45	37	3	0	0	40	20	1	0	0	21	40	0	3	0	1	0	1	0	45	24	0	1	0	0	4	0	29	61	74		
10:00 to 11:00	38	4	0	0	42	24	3	0	0	27	41	0	4	0	0	1	1	0	47	30	0	3	0	0	3	0	36	69	83		
10:15 to 11:15	36	4	0	0	40	23	2	0	0	25	39	0	5	0	0	1	1	0	46	26	0	2	0	0	2	0	30	65	76		
10:30 to 11:30	32	4	0	0	36	29	3	0	0	32	38	0	5	0	0	1	0	0	44	35	0	3	0	0	2	0	40	68	84		
10:45 to 11:45	30	6	1	0	37	39	3	0	0	42	35	0	7	1	0	1	0	0	44	47	0	3	0	0	2	0	52	79	96		
11:00 to 12:00	30	5	1	0	36	36	2	0	0	38	34	0	6	1	1	0	0	0	42	41	0	2	0	0	0	0	43	74	85		
11:15 to 12:15	37	3	1	0	41	40	5	0	0	45	43	0	3	1	1	0	0	0	48	47	0	5	0	0	0	0	52	86	100		
11:30 to 12:30	37	2	1	0	40	43	4	0	0	47	42	0	2	1	1	1	0	0	47	48	0	4	0	0	0	0	52	87	99		
11:45 to 12:45	41	1	0	0	42	34	5	0	0	39	50	0	1	0	1	1	0	0	53	39	0	6	0	0	0	0	45	81	98		
12:00 to 13:00	39	1	0	0	40	38	5	0	0	43	49	0	1	0	0	1	0	0	51	46	0	6	0	0	0	0	52	83	103		
12:15 to 13:15	39	12	0	0	51	39	2	0	0	41	49	0	12	0	0	3	0	0	64	47	0	3	0	0	1	0	51	92	115		
12:30 to 13:30	38	13	0	0	51	34	5	0	0	39	47	0	13	0	0	9	0	0	69	42	0	6	0	0	1	0	49	90	118		
12:45 to 13:45	31	12	0	0	43	34	4	0	0	38	38	0	12	0	0	9	0	0	59	43	0	4	0	0	1	0	48	81	107		
13:00 to 14:00	32	12	0	0	44	31	3	0	0	34	41	0	12	0	0	10	0	0	63	40	0	3	0	0	2	0	45	78	108		
13:15 to 14:15	27	2	0	0	29	30	3	0	0	33	36	0	2	0	0	8	0	0	46	38	0	3	0	0	1	0	42	62	88		
13:30 to 14:30	28	2	0	0	30	37	2	0	0	39	37	0	3	0	0	1	0	0	41	47	0	3	0	0	1	0	51	69	92		
13:45 to 14:45	29	3	0	0	32	34	4	0	0	38	37	0	4	0	0	2	0	0	43	42	0	5	0	0	1	0	48	70	91		
14:00 to 15:00	28	3	0	0	31	32	4	0	0	36	35	0	4	0	0	1	4	0	44	39	0	5	0	0	0	0	44	67	88		
14:15 to 15:15	22	5	0	0	27	33	4	0	0	37	26	0	6	0	0	2	4	0	38	42	0	5	0	0	0	0	47	64	85		
14:30 to 15:30	18	5	0	0	23	27	2	0	0	29	22	0	6	0	0	3	4	0	35	33	0	2	0	0	0	0	35	52	70		
14:45 to 15:45	16	6	0	0	22	41	2	0	0	43	20	0	7	0	0	2	4	0	33	49	0	3	0	0	0	0	52	65	85		
15:00 to 16:00	19	7	0	0	26	48	4	0	0	52	25	0	8	0	0	2	0	0	35	56	0	5	0	1	0	0	62	78	97		
15:15 to 16:15	22	4	0	0	26	46	4	0	0	50	28	0	5	0	0	1	0	0	34	53	0	5	0	1	0	0	59	76	93		
15:30 to 16:30	21	3	0	0	24	48	4	0	0	52	29	0	3	0	2	0	0	0	34	55	0	5	0	1	0	0	61	76	95		
15:45 to 16:45	20	1	0	0	21	34	2	0	0	36	27	0	1	0	2	0	0	0	30	39	0	2	0	1	0	1	0	43	57	73	
16:00 to 17:00	14	0	0	0	14	28	0	0	0	28	17	0	0	0	2	0	0	0	19	34	0	0	0	0	0	1	0	35	42	54	
16:15 to 17:15	10	0	0	0	10	32	0	0	0	32	13	0	0	0	2	0	1	0	16	38	0	0	0	1	0	1	0	40	42	56	
16:30 to 17:30	9	0	0	0	9	28	0	0	0	28	9	0	0	0	0	0	1	0	10	35	0	0	0	1	0	1	0	37	37	47	
16:45 to 17:45	6	0	0	0	6	23	0	0	0	23	6	0	0	0	0	0	1	0	7	29	0	0	0	1	0	0	30	29	37		
17:00 to 18:00	4	0	0	0	4	15	0	0	0	15	4	0	0	0	0	0	1	0	5	18	0	0	0	1	0	0	19	19	24		
17:15 to 18:15	3	0	0	0	3	3	0	0	0	3	3	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	4	6	7		
17:30 to 18:30	1	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	2	2		
17:45 to 18:45	1	0	0	0	1	2	0	0	0	2	1	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	2	3	3		
18:00 to 19:00	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	3	3		

Table 3.60 Site 10 - Peak hours

Peak hour		Vehicles										Persons																		
Vehicles		IN					OUT					IN										OUT								
		TRUCKS					TRUCKS					TRUCKS										TRUCKS								
AM		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	
8:00	to 9:00	32	6	0	0	38	21	5	0	0	26	40	0	7	0	0	7	0	0	0	54	31	0	6	0	1	1	0	0	39
PM																														
15:00	to 16:00	19	7	0	0	26	48	4	0	0	52	25	0	8	0	0	2	0	0	0	35	56	0	5	0	1	0	0	0	62
Peak hour		Vehicles										Persons																		
Persons		IN					OUT					IN										OUT								
		TRUCKS					TRUCKS					TRUCKS											TRUCKS							
AM		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	
8:45	to 9:45	30	1	0	0	31	28	4	0	0	32	38	0	1	0	1	8	0	0	0	48	35	0	5	0	3	2	1	0	46
PM																														
15:00	to 16:00	19	7	0	0	26	48	4	0	0	52	25	0	8	0	0	2	0	0	0	35	56	0	5	0	1	0	0	0	62

Table 3.61 Site 10 - Hourly data - consecutive

DATE 2 May 2012		SITE 10 PORT STEPHENS INDUSTRIAL ESTATE, TAYLORS BEACH																												Grand Total			
1-hour Data		Vehicles										Persons																		1-hour Data			
WEATHER Fine	TIME	IN					OUT					IN										OUT											
		TRUCKS			Buses	Total	TRUCKS			Buses	Total	By car	By bus	TRUCKS				Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	TRUCKS				Bikes	Motorbikes	Pedestrians	Other	Total
		Cars	Rigid	Artic.			Cars	Rigid	Artic.					By rigid	By artic.	By rigid	By artic.								By rigid	By artic.	By rigid	By artic.					
6:00	to 7:00	30	1	0	0	31	10	1	0	0	11	33	0	1	0	1	0	0	35	11	0	2	0	0	0	0	13	42	48				
7:00	to 8:00	29	1	3	0	33	26	1	0	0	27	31	0	2	3	0	1	0	37	27	0	1	0	1	1	0	0	60	67				
8:00	to 9:00	32	6	0	0	38	21	5	0	0	26	40	0	7	0	0	7	0	54	31	0	6	0	1	1	0	0	64	93				
9:00	to 10:00	26	0	0	0	26	29	1	0	0	30	32	0	0	0	2	1	0	35	35	0	1	0	2	4	1	0	56	78				
10:00	to 11:00	38	4	0	0	42	24	3	0	0	27	41	0	4	0	0	1	1	47	30	0	3	0	0	3	0	0	69	83				
11:00	to 12:00	30	5	1	0	36	36	2	0	0	38	34	0	6	1	1	0	0	42	41	0	2	0	0	0	0	0	74	85				
12:00	to 13:00	39	1	0	0	40	38	5	0	0	43	49	0	1	0	0	1	0	51	46	0	6	0	0	0	0	0	83	103				
13:00	to 14:00	32	12	0	0	44	31	3	0	0	34	41	0	12	0	0	10	0	63	40	0	3	0	0	2	0	0	78	108				
14:00	to 15:00	28	3	0	0	31	32	4	0	0	36	35	0	4	0	0	1	4	44	39	0	5	0	0	0	0	0	67	88				
15:00	to 16:00	19	7	0	0	26	48	4	0	0	52	25	0	8	0	0	2	0	35	56	0	5	0	1	0	0	0	78	97				
16:00	to 17:00	14	0	0	0	14	28	0	0	0	28	17	0	0	0	2	0	0	19	34	0	0	0	0	0	1	0	42	54				
17:00	to 18:00	4	0	0	0	4	15	0	0	0	15	4	0	0	0	0	0	1	5	18	0	0	0	1	0	0	0	19	24				
18:00	to 19:00	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3	3	3			
Total		321	40	4	0	365	341	29	0	0	370	382	0	45	4	6	24	6	467	411	0	34	0	6	11	2	0	735	933				

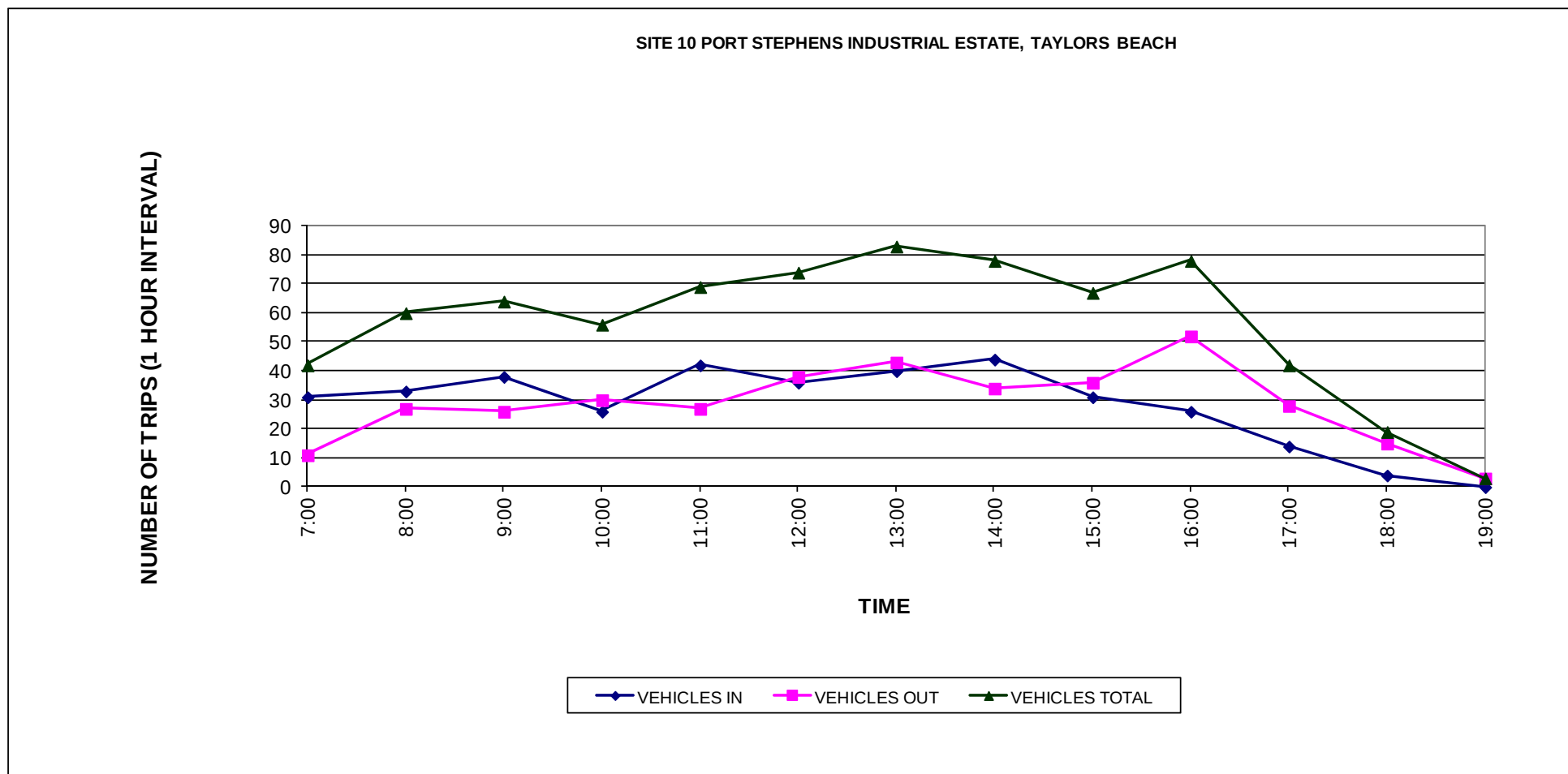


Figure 3.45 Site 10 – Hourly trip distribution - vehicles.

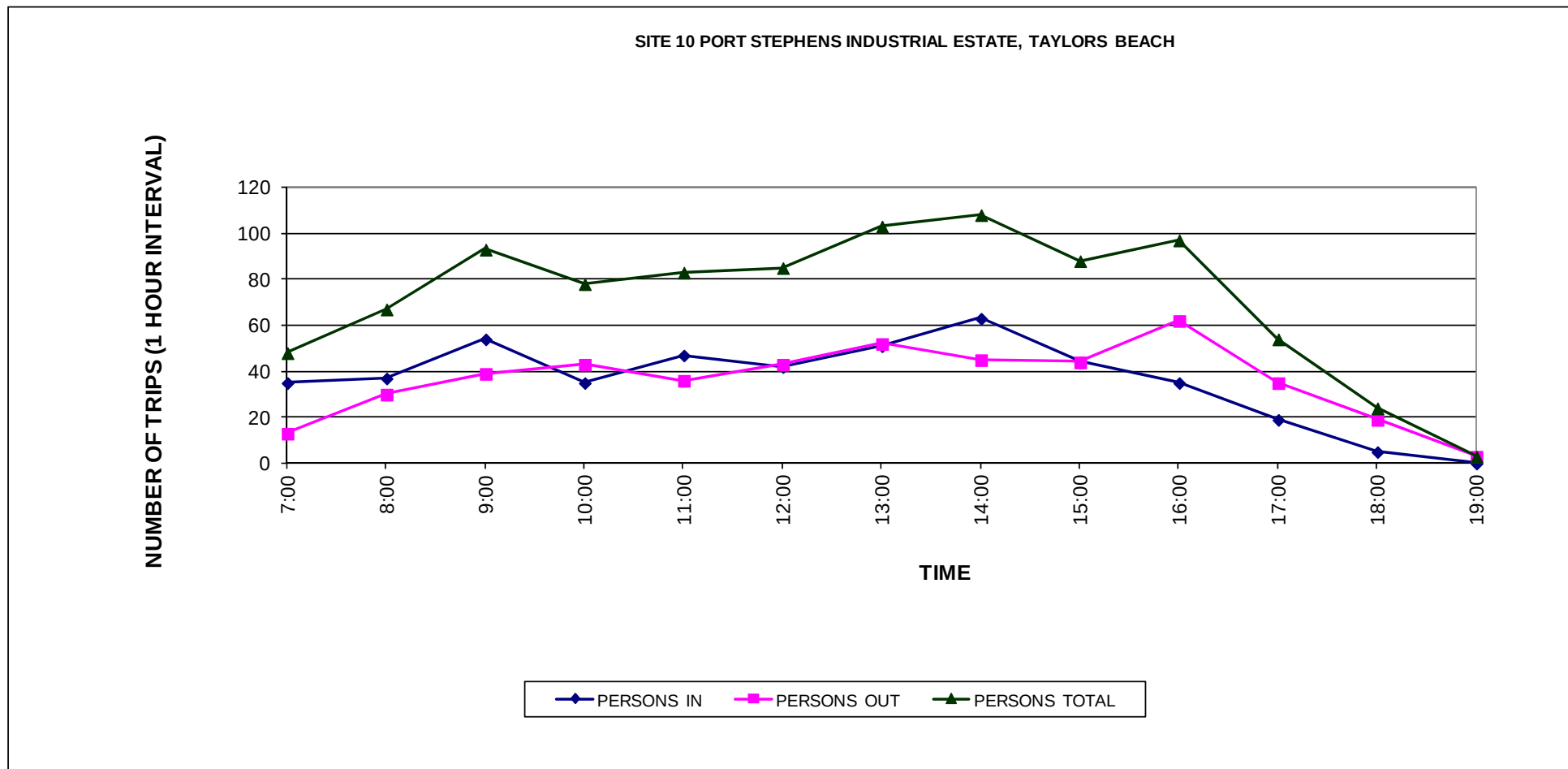


Figure 3.46 Site 10 – Hourly trip distribution - persons.

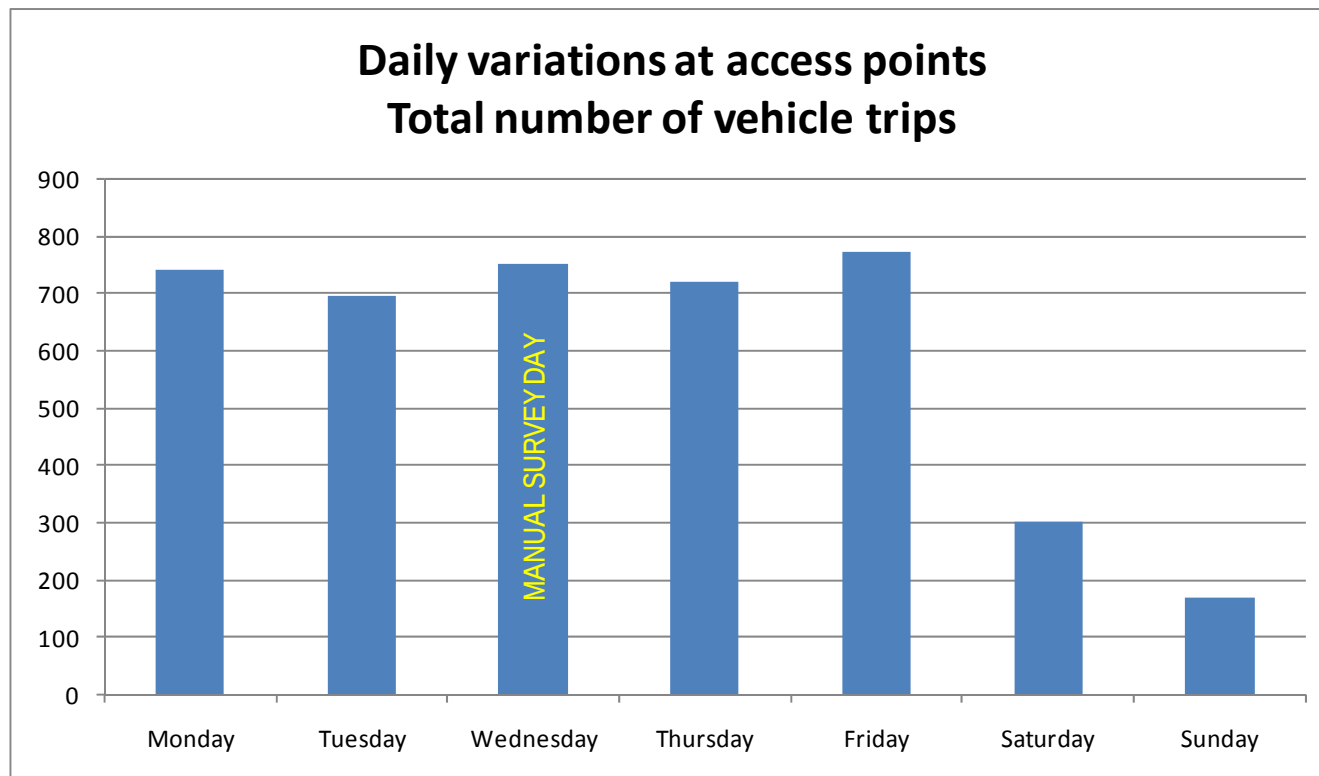


Figure 3.47 Site 10– Daily trip distribution - vehicles.

3.1.13 Site 11 Johnson St Business Park, Dubbo

Table 3.62 Site 11 - Survey Results – 15-minute interval data

DATE 10 May 2012		SITE 11 JOHNSON ST BUSINESS PARK, DUBBO																														Grand Total	
15 minute Data		Vehicles										Persons																				15 minute Data	
WEATHER	Fine	IN					OUT					IN										OUT											
		TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS						
TIME		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	Vehicles	Persons		
6:00	to 6:15	7	0	0	1	0	8	3	1	2	0	6	8	0	0	1	0	0	0	9	3	0	1	2	0	0	0	0	0	6	14	15	
6:15	to 6:30	3	0	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	3		
6:30	to 6:45	4	1	0	0	0	5	1	1	0	0	2	4	0	1	0	0	0	0	5	1	0	1	0	0	0	0	0	2	7	7		
6:45	to 7:00	18	3	0	0	0	21	2	0	0	0	2	22	0	3	0	0	0	0	25	2	0	0	0	0	0	0	0	2	23	27		
7:00	to 7:15	11	2	0	0	0	13	6	2	1	0	9	13	0	2	0	0	0	0	15	6	0	2	1	0	0	0	0	9	22	24		
7:15	to 7:30	9	0	0	1	0	10	3	4	0	0	7	12	0	0	1	0	0	0	13	3	0	4	0	0	0	0	0	7	17	20		
7:30	to 7:45	14	2	1	1	0	17	9	5	1	0	15	17	0	2	1	0	0	0	20	12	0	6	1	0	0	0	0	19	32	39		
7:45	to 8:00	17	0	0	1	0	18	3	1	0	0	4	17	0	0	1	0	0	0	18	3	0	1	0	0	0	0	0	4	22	22		
8:00	to 8:15	13	1	0	0	0	14	8	3	3	0	14	14	0	1	0	0	0	0	15	8	0	4	3	0	0	0	0	15	28	30		
8:15	to 8:30	7	0	0	1	0	8	3	5	1	0	9	8	0	0	1	0	0	0	9	4	0	5	1	0	0	0	0	10	17	19		
8:30	to 8:45	11	6	0	0	0	17	11	6	1	0	18	12	0	0	0	0	0	0	19	12	0	7	1	0	0	0	0	20	35	39		
8:45	to 9:00	12	3	0	0	0	15	9	4	0	0	13	14	0	3	0	0	1	0	18	10	0	4	0	0	0	0	0	14	28	32		
9:00	to 9:15	3	3	0	0	0	6	7	3	0	0	10	4	0	3	0	0	0	0	7	10	0	4	0	0	0	0	0	14	16	21		
9:15	to 9:30	7	1	0	0	0	8	7	0	1	0	8	8	0	1	0	0	0	0	9	8	0	0	1	0	0	0	0	9	16	18		
9:30	to 9:45	8	5	0	0	0	13	7	3	0	0	10	10	0	5	0	0	0	0	15	8	0	3	0	0	0	0	0	11	23	26		
9:45	to 10:00	12	3	1	0	0	16	6	7	0	0	13	13	0	3	2	0	0	0	18	6	0	7	0	0	0	0	0	13	29	31		
10:00	to 10:15	8	6	0	0	0	14	4	4	0	0	8	9	0	6	0	0	0	0	15	5	0	4	0	0	0	0	0	9	22	24		
10:15	to 10:30	14	2	0	0	0	16	8	2	0	0	10	18	0	2	0	0	0	0	20	11	0	2	0	0	0	0	0	13	26	33		
10:30	to 10:45	9	2	0	0	0	11	10	0	1	0	11	9	0	3	0	0	0	0	12	12	0	0	1	0	0	0	0	13	22	25		
10:45	to 11:00	15	2	0	0	0	17	11	1	0	0	12	18	0	2	0	0	0	0	20	12	0	1	0	0	0	0	0	13	29	33		
11:00	to 11:15	4	4	0	0	1	9	10	7	0	0	17	5	1	4	0	0	0	0	10	12	0	7	0	0	0	0	0	19	26	29		
11:15	to 11:30	5	1	0	0	0	6	13	2	0	0	15	5	0	1	0	0	0	0	6	14	0	2	0	0	0	0	0	16	21	22		
11:30	to 11:45	5	1	0	0	0	6	13	2	1	0	16	5	0	1	0	0	0	0	7	14	0	2	1	0	1	0	0	18	22	25		
11:45	to 12:00	8	5	0	0	0	13	9	3	0	0	12	10	0	5	0	0	0	1	0	16	11	0	3	0	0	0	0	14	25	30		
12:00	to 12:15	4	3	0	0	0	7	12	3	0	1	16	6	0	3	0	0	0	0	9	14	1	3	0	0	1	1	0	20	23	29		
12:15	to 12:30	2	2	0	0	0	4	8	1	0	0	9	3	0	2	0	0	0	0	5	8	0	1	0	0	0	0	0	9	13	14		
12:30	to 12:45	11	2	0	0	0	13	6	1	1	0	8	12	0	2	0	0	0	0	1	15	7	0	1	1	0	0	0	9	21	24		
12:45	to 13:00	13	0	0	0	0	13	6	3	0	0	9	13	0	0	0	0	0	0	1	14	7	0	3	0	0	0	0	10	22	24		
13:00	to 13:15	12	3	0	0	0	15	15	2	0	0	17	12	0	4	0	0	0	0	0	16	16	0	4	0	0	0	0	20	32	36		
13:15	to 13:30	4	3	2	0	0	9	4	4	0	0	8	4	0	3	2	0	0	0	9	4	0	4	0	0	0	0	0	8	17	17		
13:30	to 13:45	9	4	0	0	0	13	4	2	1	0	7	11	0	5	0	0	0	0	0	16	4	0	4	1	0	0	0	9	20	25		
13:45	to 14:00	9	2	0	0	0	11	5	0	0	0	5	10	0	2	0	0	0	0	12	5	0	0	0	0	0	0	0	5	16	17		
14:00	to 14:15	8	2	2	0	0	12	5	1	1	0	7	8	0	2	2	0	0	0	12	5	0	1	1	0	0	0	0	7	19	19		
14:15	to 14:30	14	2	0	0	0	16	7	1	0	0	8	18	0	2	0	0	0	0	20	8	0	1	0	0	0	0	0	9	24	29		
14:30	to 14:45	7	4	0	0	0	11	10	2	0	0	12	12	0	4	0	0	0	0	0	16	11	0	2	0	0	0	1	14	23	30		
14:45	to 15:00	9	1	0	0	0	10	3	2	1	0	6	10	0	1	0	0	0	1	12	4	0	2	1	0	0	0	0	7	16	19		
15:00	to 15:15	10	4	0	0	0	14	14	2	0	0	16	11	0	5	0	0	0	0	16	16	0	2	0	0	0	0	0	18	30	34		
15:15	to 15:30	13	3	1	0	0	17	9	2	0	0	11	14	0	3	1	0	0	0	1	19	10	0	2	0	0	0	0	12	28	31		
15:30	to 15:45	11	3	0	0	0	14	10	0	0	0	10	14	0	7	0	0	0	0	0	21	12	0	0	0	0	0	0	12	24	33		
15:45	to 16:00	9	3	0	0	0	12	22	0	0	0	22	9	0	3	0	0	0	0	12	26	0	0	0	0	0	0	0	26	34	38		
16:00	to 16:15	9	3	3	0	0	15	5	3	0	0	8	10	0	3	3	0	0	0	0	16	7	0	3	0	0	0	0	10	23	26		
16:15	to 16:30	4	3	0	0	0	7	14	5	1	0	20	5	0	3	0	0	0	0	8	16	0	5	1	0	0	0	0	22	27	30		
16:30	to 16:45	6	1	0	0	0	7	20	1	1	0	22	10	0	1	0	0	0	0	11	25	0	1	1	0	0	0	0	27	29	38		
16:45	to 17:00	7	8	0	0	0	15	15	1	0	0	16	9	0	11	0	0	0	0	20	18	0	1	0	0	0	0	0	19	31	39		
17:00	to 17:15	7	0	0	0	0	7	18	0	0	0	18	13	0	0	0	0	0	0	13	27	0	0	0	0	0	0	1	29	25	42		
17:15	to 17:30	5	0	0	0	0	5	9	0	0	0	9	5	0	0	0	0	0	0	5	9	0	0	0	0	0	0	0	9	14	14		
17:30	to 17:45	0	0	0	0	0	0	6	1	0	0	7	0	0	0	0	0	0	0	0	6	1	0	1	0	0	0	0	7	7	7		
17:45	to 18:00	3	0	0	0	0	3	4	0	0	0	4	4	0	0	0	0	0	0	4	5	0	0	0	0	0	0	0	5	7	9		
18:00	to 18:15	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	
18:15	to 18:30	1	0	0	0	0	1	2	0	0	0	2	1	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	2	3	3		
18:30	to 18:45	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	2	2		
18:45	to 19:00	0	1	0	0	0	1	1	0	0	0	2	0	0	0	1	0	0	0	0	1	1	0	1	0	0	0	0	2	3	3		
TOTAL		413	110	14	1	538	398	104	18	1	521	484	1																				

Table 3.63 Site 11 - Survey Results – Hourly data - rolling at 15 minute intervals

DATE 10 May 2012 1-hour Data WEATHER Fine		SITE 11 JOHNSON ST BUSINESS PARK, DUBBO																														Grand Total	
		Vehicles										Persons																				1-hour Data Vehicles Persons	
		IN					OUT					IN										OUT											
		TRUCKS			Buses	Total	TRUCKS			Buses	Total	By car	By bus	TRUCKS				Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	TRUCKS		Bikes	Motorbikes	Pedestrians	Other	Total		
Cars	Rigid	Artic.	Cars	Rigid			Artic.	By rigid	By artic.					By rigid	By artic.	By rigid	By artic.																
6:00 to 7:00	32	4	1	0	37	6	2	2	0	10	37	0	4	1	0	0	0	0	0	42	6	0	2	2	0	0	0	0	0	10	47	52	
6:15 to 7:15	36	6	0	0	42	9	3	1	0	13	42	0	6	0	0	0	0	0	48	9	0	3	1	0	0	0	0	0	0	13	55	61	
6:30 to 7:30	42	6	1	0	49	12	7	1	0	20	51	0	6	1	0	0	0	0	58	12	0	7	1	0	0	0	0	0	0	20	69	78	
6:45 to 7:45	52	7	2	0	61	20	11	2	0	33	64	0	7	2	0	0	0	0	73	23	0	12	2	0	0	0	0	0	0	37	94	110	
7:00 to 8:00	51	4	3	0	58	21	12	2	0	35	59	0	4	3	0	0	0	0	66	24	0	13	2	0	0	0	0	0	0	39	93	105	
7:15 to 8:15	53	3	3	0	59	23	13	4	0	40	60	0	3	3	0	0	0	0	66	26	0	15	4	0	0	0	0	0	0	45	99	111	
7:30 to 8:30	51	3	3	0	57	23	14	5	0	42	56	0	3	3	0	0	0	0	62	27	0	16	5	0	0	0	0	0	0	48	99	110	
7:45 to 8:45	48	7	2	0	57	25	15	5	0	45	51	0	8	2	0	0	0	0	61	27	0	17	5	0	0	0	0	0	0	49	102	110	
8:00 to 9:00	43	10	1	0	54	31	18	5	0	54	48	0	11	1	1	0	0	0	61	34	0	20	5	0	0	0	0	0	0	59	108	120	
8:15 to 9:15	33	12	1	0	46	30	18	2	0	50	38	0	13	1	1	0	0	0	53	36	0	20	2	0	0	0	0	0	0	58	96	111	
8:30 to 9:30	33	13	0	0	46	34	13	2	0	49	38	0	14	0	1	0	0	0	53	40	0	15	2	0	0	0	0	0	0	57	95	110	
8:45 to 9:45	30	12	0	0	42	30	10	1	0	41	36	0	12	0	1	0	0	0	49	36	0	11	1	0	0	0	0	0	0	48	83	97	
9:00 to 10:00	30	12	1	0	43	27	13	1	0	41	35	0	12	2	0	0	0	0	49	32	0	14	1	0	0	0	0	0	0	47	84	96	
9:15 to 10:15	35	15	1	0	51	24	14	1	0	39	40	0	15	2	0	0	0	0	57	27	0	14	1	0	0	0	0	0	0	42	90	99	
9:30 to 10:30	42	16	1	0	59	25	16	0	0	41	50	0	16	2	0	0	0	0	68	30	0	16	0	0	0	0	0	0	0	46	100	114	
9:45 to 10:45	43	13	1	0	57	28	13	1	0	42	49	0	14	2	0	0	0	0	65	34	0	13	1	0	0	0	0	0	0	48	99	113	
10:00 to 11:00	46	12	0	0	58	33	7	1	0	41	54	0	13	0	0	0	0	0	67	40	0	7	1	0	0	0	0	0	0	48	99	115	
10:15 to 11:15	42	10	0	1	53	39	10	1	0	50	50	1	11	0	0	0	0	0	62	47	0	10	1	0	0	0	0	0	0	58	103	120	
10:30 to 11:30	33	9	0	1	43	44	10	1	0	55	37	1	10	0	0	0	0	0	48	50	0	10	1	0	0	0	0	0	0	61	98	109	
10:45 to 11:45	29	8	0	1	38	47	12	1	0	60	33	1	8	0	0	0	0	1	43	52	0	12	1	0	0	1	0	0	0	66	98	109	
11:00 to 12:00	22	11	0	1	34	45	14	1	0	60	25	1	11	0	0	0	1	1	39	51	0	14	1	0	0	1	0	0	0	67	94	106	
11:15 to 12:15	22	10	0	0	32	47	10	1	1	59	26	0	10	0	0	0	0	1	38	53	1	10	1	0	2	1	0	0	0	68	91	106	
11:30 to 12:30	19	11	0	0	30	42	9	1	1	53	24	0	11	0	0	0	1	1	37	47	1	9	1	0	2	1	0	0	61	83	98		
11:45 to 12:45	25	12	0	0	37	35	8	1	1	45	31	0	12	0	0	0	1	1	45	40	1	8	1	0	1	1	0	0	52	82	97		
12:00 to 13:00	30	7	0	0	37	32	8	1	1	42	34	0	7	0	0	0	0	2	43	36	1	8	1	0	1	1	0	0	48	79	91		
12:15 to 13:15	38	7	0	0	45	35	7	1	0	43	40	0	8	0	0	0	0	2	50	38	0	9	1	0	0	0	0	0	48	88	98		
12:30 to 13:30	40	8	2	0	50	31	10	1	0	42	41	0	9	2	0	0	0	2	54	34	0	12	1	0	0	0	0	0	47	92	101		
12:45 to 13:45	38	10	2	0	50	29	11	1	0	41	40	0	12	2	0	0	0	1	55	31	0	15	1	0	0	0	0	0	47	91	102		
13:00 to 14:00	34	12	2	0	48	28	8	1	0	37	37	0	14	2	0	0	0	0	53	29	0	12	1	0	0	0	0	0	42	85	95		
13:15 to 14:15	30	11	4	0	45	18	7	2	0	27	33	0	12	4	0	0	0	0	49	18	0	9	2	0	0	0	0	0	29	72	78		
13:30 to 14:30	40	10	2	0	52	21	4	2	0	27	47	0	11	2	0	0	0	0	60	22	0	6	2	0	0	0	0	0	30	79	90		
13:45 to 14:45	38	10	2	0	50	27	4	1	0	32	48	0	10	2	0	0	0	0	60	29	0	4	1	0	0	0	1	0	35	82	95		
14:00 to 15:00	38	9	2	0	49	25	6	2	0	33	48	0	9	2	0	0	1	0	60	28	0	6	2	0	0	0	1	0	37	82	97		
14:15 to 15:15	40	11	0	0	51	34	7	1	0	42	51	0	12	0	0	0	1	0	64	39	0	7	1	0	0	0	1	0	48	93	112		
14:30 to 15:30	39	12	1	0	52	36	8	1	0	45	47	0	13	1	0	0	1	1	63	41	0	8	1	0	0	0	1	0	51	97	114		
14:45 to 15:45	43	11	1	0	55	36	6	1	0	43	49	0	16	1	0	0	1	1	68	42	0	6	1	0	0	0	0	0	49	98	117		
15:00 to 16:00	43	13	1	0	57	55	4	0	0	59	48	0	18	1	0	0	0	1	68	64	0	4	0	0	0	0	0	0	68	116	136		
15:15 to 16:15	42	12	4	0	58	46	5	0	0	51	47	0	16	4	0	0	0	1	68	55	0	5	0	0	0	0	0	0	60	109	128		
15:30 to 16:30	33	12	3	0	48	51	8	1	0	60	38	0	16	3	0	0	0	0	57	61	0	8	1	0	0	0	0	0	70	108	127		
15:45 to 16:45	28	10	3	0	41	61	9	2	0	72	34	0	10	3	0	0	0	0	47	74	0	9	2	0	0	0	0	0	85	113	132		
16:00 to 17:00	26	15	3	0	44	54	10	2	0	66	34	0	18	3	0	0	0	0	55	66	0	10	2	0	0	0	0	0	78	110	133		
16:15 to 17:15	24	12	0	0	36	67	7	2	0	76	37	0	15	0	0	0	0	0	52	86	0	7	2	0	0	0	1	1	97	112	149		
16:30 to 17:30	25	9	0	0	34	62	2	1	0	65	37	0	12	0	0	0	0	0	49	79	0	2	1	0	0	0	1	1	84	99	133		
16:45 to 17:45	19	8	0	0	27	48	2	0	0	50	27	0	11	0	0	0	0	0	38	60	0	2	0	0	0	0	1	1	64	77	102		
17:00 to 18:00	15	0	0	0	15	37	1	0	0	38	22	0	0	0	0	0	0	0	22	47	0	1	0	0	0	0	1	1	50	53	72		
17:15 to 18:15	9	0	0	0	9	19	1	0	0	20	10	0	0	0	0	0	0	0	10	20	0	1	0	0	0	0	0	0	21	29	31		
17:30 to 18:30	5	0	0	0	5	12	1	0	0	13	6	0	0	0	0	0	0	0	6	13	0	1	0	0	0	0	0	0	14	18	20		
17:45 to 18:45	6	0	0	0	6	7	0	0	0	7	7	0	0	0	0	0	0	0	7	8	0	0	0	0	0	0	0	0	8	13	15		
18:00 to 19:00	3	1	0	0	4	4	1	0	0	5	3	0	1	0	0	0	0	0	4	4	0	1	0	0	0	0	0	0	5	9	9		

Table 3.64 Site 11 - Peak Hours

Peak hour		Vehicles										Persons																	
Vehicles		IN					OUT					IN										OUT							
		TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS		
AM		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
8:00	to 9:00	43	10	1	0	54	31	18	5	0	54	48	0	11	1	1	0	0	0	61	34	0	20	5	0	0	0	0	59
PM																													
15:00	to 16:00	43	13	1	0	57	55	4	0	0	59	48	0	18	1	0	0	0	1	68	64	0	4	0	0	0	0	0	68
Peak hour		Vehicles										Persons																	
Persons		IN					OUT					IN										OUT							
		TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS		
AM		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total
8:00	to 9:00	43	10	1	0	54	31	18	5	0	54	48	0	11	1	1	0	0	0	61	34	0	20	5	0	0	0	0	59
PM																													
16:15	to 17:15	24	12	0	0	36	67	7	2	0	76	37	0	15	0	0	0	0	0	52	86	0	7	2	0	0	1	1	97

Table 3.65 Site 11 - Hourly data - consecutive

DATE 10 May 2012		SITE 11 JOHNSON ST BUSINESS PARK, DUBBO																												Grand Total	
1-hour Data		Vehicles										Persons																		1-hour Data	
WEATHER Fine	TIME	IN					OUT					IN										OUT								Vehicles	Persons
		TRUCKS					TRUCKS					TRUCKS					TRUCKS					TRUCKS									
		Cars	Rigid	Artic.	Buses	Total	Cars	Rigid	Artic.	Buses	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total	By car	By bus	By rigid	By artic.	Bikes	Motorbikes	Pedestrians	Other	Total		
6:00 to 7:00	32	4	1	0	37	6	2	2	0	10	37	0	4	1	0	0	0	0	42	6	0	2	2	0	0	0	0	10	47	52	
7:00 to 8:00	51	4	3	0	58	21	12	2	0	35	59	0	4	3	0	0	0	0	66	24	0	13	2	0	0	0	0	39	93	105	
8:00 to 9:00	43	10	1	0	54	31	18	5	0	54	48	0	11	1	1	0	0	0	61	34	0	20	5	0	0	0	0	59	108	120	
9:00 to 10:00	30	12	1	0	43	27	13	1	0	41	35	0	12	2	0	0	0	0	49	32	0	14	1	0	0	0	0	47	84	96	
10:00 to 11:00	46	12	0	0	58	33	7	1	0	41	54	0	13	0	0	0	0	0	67	40	0	7	1	0	0	0	0	48	99	115	
11:00 to 12:00	22	11	0	1	34	45	14	1	0	60	25	1	11	0	0	0	1	1	39	51	0	14	1	0	1	0	0	67	94	106	
12:00 to 13:00	30	7	0	0	37	32	8	1	1	42	34	0	7	0	0	0	0	2	43	36	1	8	1	0	1	1	0	48	79	91	
13:00 to 14:00	34	12	2	0	48	28	8	1	0	37	37	0	14	2	0	0	0	0	53	29	0	12	1	0	0	0	0	42	85	95	
14:00 to 15:00	38	9	2	0	49	25	6	2	0	33	48	0	9	2	0	0	1	0	60	28	0	6	2	0	0	1	0	37	82	97	
15:00 to 16:00	43	13	1	0	57	55	4	0	0	59	48	0	18	1	0	0	0	1	68	64	0	4	0	0	0	0	0	68	116	136	
16:00 to 17:00	26	15	3	0	44	54	10	2	0	66	34	0	18	3	0	0	0	0	55	66	0	10	2	0	0	0	0	78	110	133	
17:00 to 18:00	15	0	0	0	15	37	1	0	0	38	22	0	0	0	0	0	0	0	22	47	0	1	0	0	0	0	1	50	53	72	
18:00 to 19:00	3	1	0	0	4	4	1	0	0	5	3	0	1	0	0	0	0	0	4	4	0	1	0	0	0	0	0	5	9	9	
Total		413	110	14	1	538	398	104	18	1	521	484	1	122	15	1	0	2	4	629	461	1	112	18	0	2	3	1	598	1059	1227

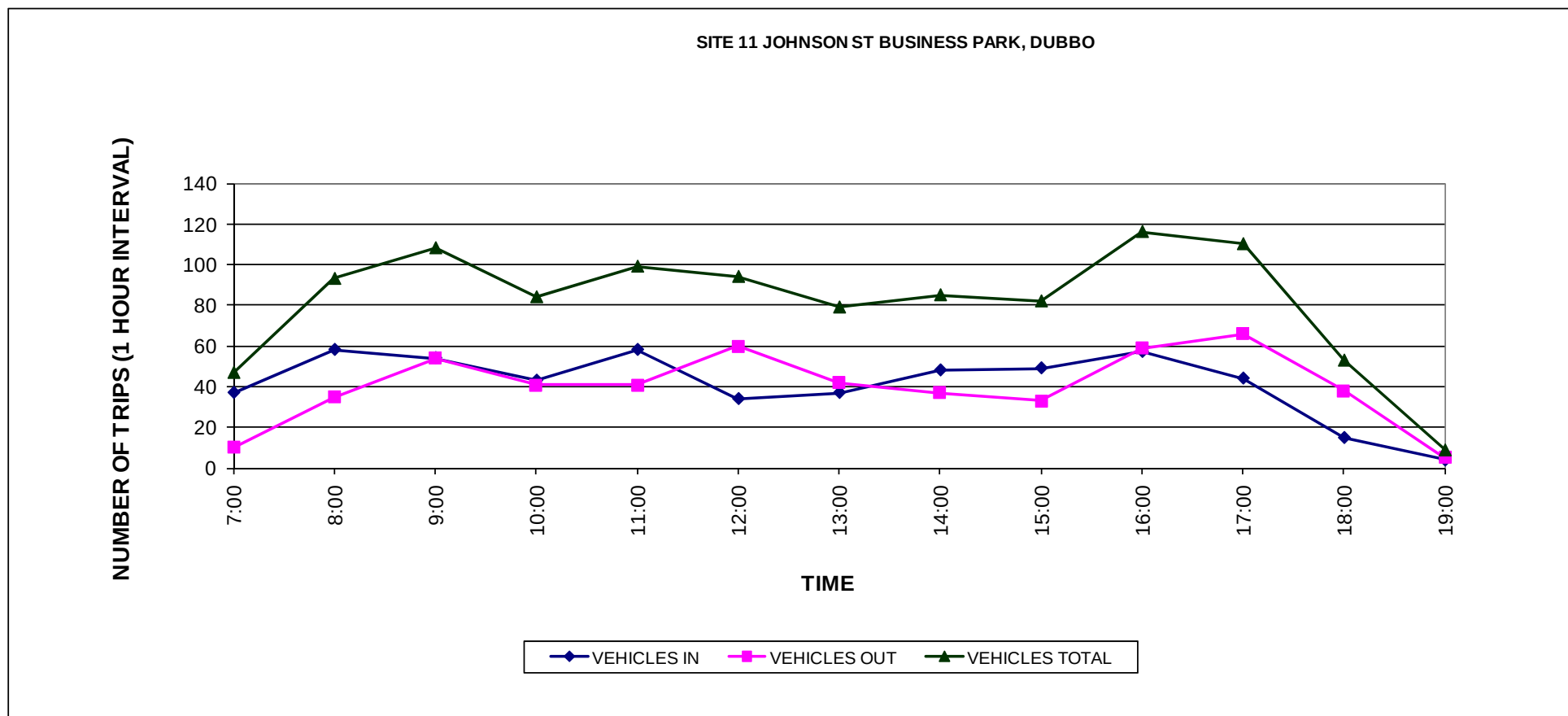


Figure 3.48 Site 11 – Hourly trip distribution - vehicles.

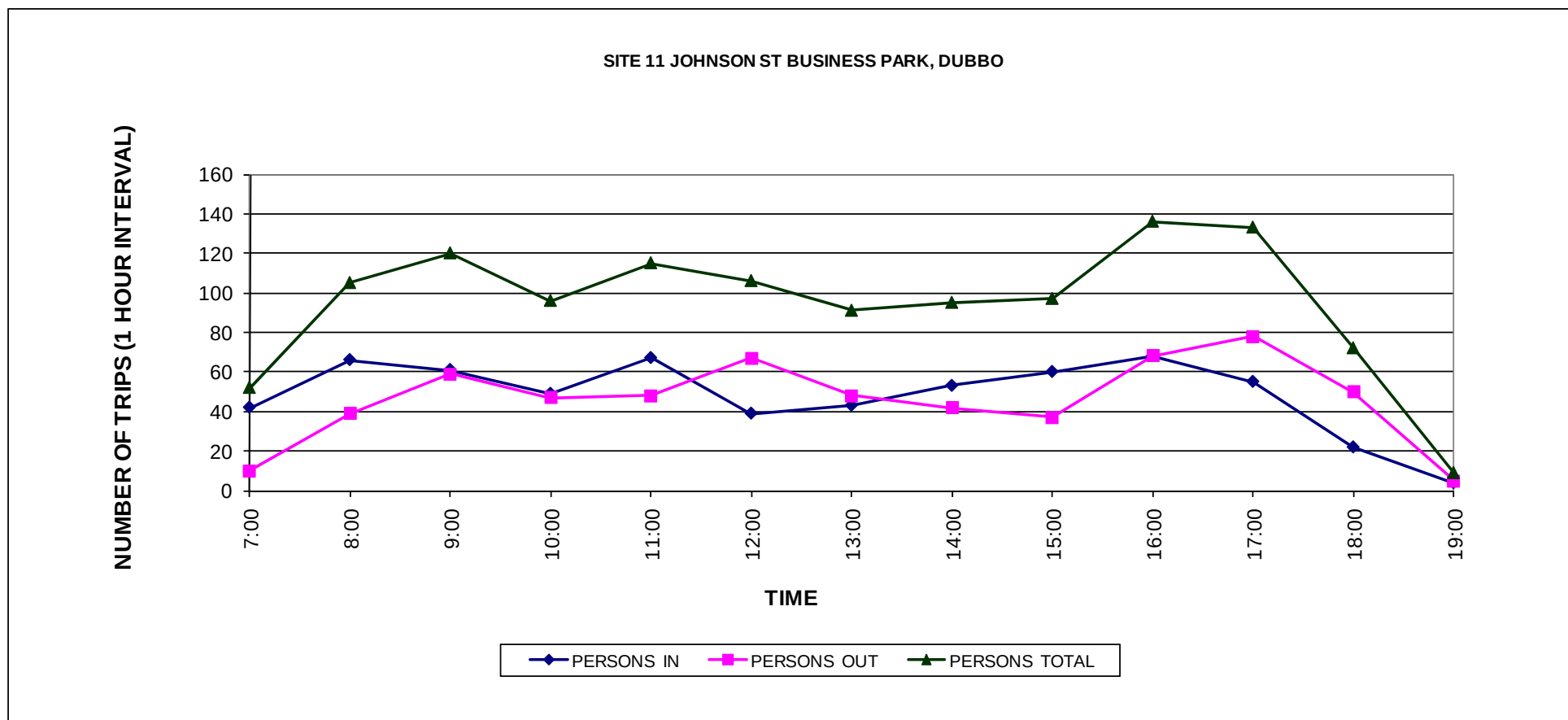


Figure 3.49 Site 11 – Hourly trip distribution - persons.

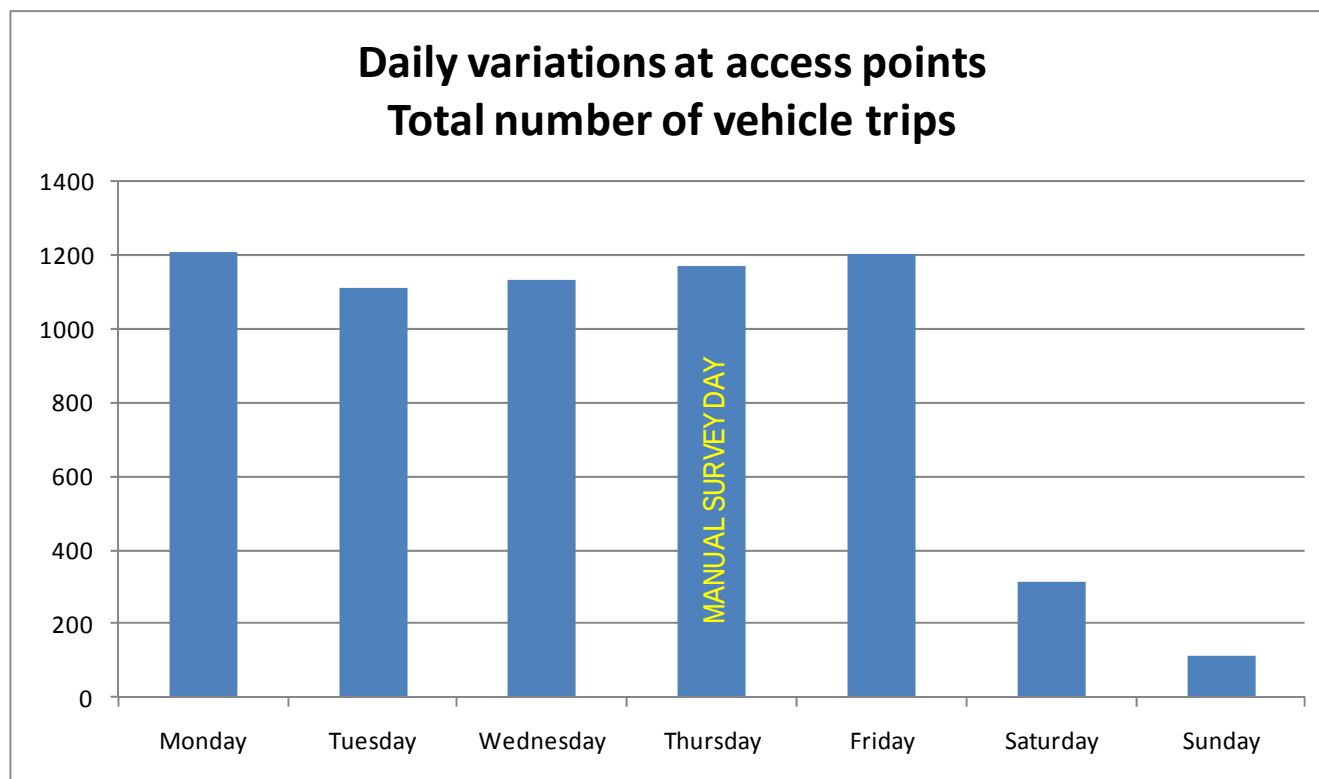


Figure 3.50 Site 11 – Daily trip distribution - vehicles.

Appendix. Extract from NZ TDB Database - Industry

Site No.	Land Use Group	Land Use Activity (Primary)	Land Use Activity (Description)	Date of Survey	Time of Survey	Day of Survey	GFA (m ²)	Site Area (m ²)	Employees	Parking Spaces Provided On-site	Other Parking Spaces Available On-street and Off-site	MAX ON-SITE PARKING DEMAND	MAX OFF-SITE PARKING DEMAND	(at time)	PEAK TOTAL PARKING DEMAND RATES			TRIP GENERATION RATES								
															GFA (spaces/ 100m2 GFA)	SITE AREA (spaces/ 100m2 SA)	EMPLOYEES (spaces/emp)	GFA (IN+OUT) (vph or vpd/100m2 GFA)			SITE AREA (IN+OUT) (vph or vpd/100m2 SA)			EMPLOYEES (IN+OUT) (vph or vpd/Emp)		
																		AM	PM	DAILY	AM	PM	DAILY	AM	PM	DAILY
7	Industry	Storage					26153		132	180		202		1030	0.77		1.53	0.60	0.17	2.47				1.19	0.33	4.89
11	Industry	Manufacturing		14/04/1992	0800-1600	Tuesday	1617	4906	30	40		34		1000	2.10	0.69	1.13	3.28	2.91	27.03	1.08	0.96	8.91	1.77	1.57	14.57
13	Industry	Manufacturing		26/03/1993	0800-1600	Friday	2956		44	91		112		1545	3.79		2.55	1.12	6.02	38.94				0.75	4.05	26.16
14	Industry	Storage		24/06/1992	0800-1600	Wednesday	3550	4243	120	82		52		0945	1.46	1.23	0.43	3.66	3.04	22.14	3.06	2.55	18.52	1.08	0.90	6.55
81	Industry	Storage		18/01/1993	0900-1700	Monday	3410		79	112		68		1500	1.99		0.86		3.81	31.03					1.65	13.39
86	Industry	Manufacturing		25/01/1994	0900-1600	Tuesday	4127		36	17		17		1415	0.41		0.47		1.33	8.31					1.53	9.53
115	Industry	Storage		28/08/1998	24hr	Friday	79600	206000										1.19	1.34	13.31	0.46	0.52	5.14			
150	Industry	Manufacturing		6/05/1998	0745-0845, 1630-1730	Wednesday		625000													0.29	0.29				
359	Industry	Contractor		18/06/1995			11000	22600		480	20	500			4.55	2.21		2.64	2.36		1.28	1.15				
448	Industry	Manufacturing		3/04/1995	0.5	Mon	62000	250000		700		264		12:00	0.43	0.11										
449	Industry	Manufacturing		3/04/1995	0.5	Mon	9600	20000		130		108		12:00	1.13	0.54										
452	Industry	Manufacturing		3/04/1995	0.5	Mon	25000	48000		92		92	44	12:00	0.54	0.28										
486	Industry	Industrial Park	Light/Medium	27/10/2004	7:00-8:00 12:00-1:00	see notes		171,000													0.16	0.14				
487	Industry	Industrial Park	Medium/Heavy	25/10/2004	9:00-10:00 4:00-5:00	see notes		77,000													0.26	0.29				
507	Industry	Storage		28/01/2005	8:00-17:30	Friday	4700	10000		100		8		9:00	0.17	0.08		0.34	0.30	1.74	0.16	0.14	0.82			
508	Industry	Storage		23/04/2005	unknown	Saturday	4700	10000		100		9		10:00	0.19	0.09		0.28			0.13					
550	Industry	Storage		13/09/2007	16:00-17:00	Thursday	10062	23490		160	35								0.93			0.40				
551	Industry	Storage		28/09/2007	14:15-17:00	Friday	10062	23489		159	35			1520					0.67			0.29				
552	Industry	Manufacturing		19/09/2007	15:00-17:30	Wednesday	4960	9799		40	6	31		15:51	0.63	0.32				1.07			0.54			
553	Industry	Commercial		19/09/2007	15:00-17:30	Wednesday	7400	10249		101	19	85		15:33	1.15	0.83				2.97			2.15			
554	Industry	Contractor		17/09/2007	14:30-16:30	Monday	1093	1188	2	6	2	5		15:58	0.46	0.42	2.50		0.09			0.08			0.50	
555	Industry	Contractor		17/09/2007	14:30-16:30	Monday	160	1832	8	4	1	3		15:05	1.88	0.16	0.38		1.88			0.16			0.38	
556	Industry	Manufacturing		17/09/2007	14:30-16:30	Monday	240	827	8	1	1	1		15:30	0.42	0.12	0.13		0.42			0.12			0.13	
558	Industry	Manufacturing		17/09/2007	14:30-16:30	Monday	301	560	15	6	3	8		15:10	2.66	1.43	0.53		1.33			0.71			0.27	
559	Industry	Contractor		17/09/2007	14:30-16:30	Monday	100	877	2	12	2	10		15:50	10.00	1.14	5.00		6.00			0.68			3.00	
560	Industry	Contractor		17/09/2007	14:30-16:30	Monday	1093	1188	5	11	2	10		15:00	0.91	0.84	2.00		0.46			0.42			1.00	
561	Industry	Contractor		17/09/2007	14:30-16:30	Monday	3160	7713	8	48	5	25		15:10	0.79	0.32	3.13		0.73			0.30			2.88	
562	Industry	Storage		20/09/2007	14:30-17:30	Thursday	792	1589	8	8	3	4		15:15	0.51	0.25	0.50		1.01			0.50			1.00	

Site No.	Land Use Group	Land Use Activity (Primary)	Land Use Activity (Description)	Date of Survey	Time of Survey	Day of Survey	GFA (m ²)	Site Area (m ²)	Employees	Parking Spaces Provided On-site	Other Parking Spaces Available On-street and Off-site	MAX ON-SITE PARKING DEMAND	MAX OFF-SITE PARKING DEMAND	(at time)	PEAK TOTAL PARKING DEMAND RATES			TRIP GENERATION RATES								
															GFA (spaces/ 100m2 GFA)	SITE AREA (spaces/ 100m2 SA)	EMPLOYEES (spaces/emp)	GFA (IN+OUT) (vph or vpd/100m2 GFA)			SITE AREA (IN+OUT) (vph or vpd/100m2 SA)			EMPLOYEES (IN+OUT) (vph or vpd/Emp)		
																		AM	PM	DAILY	AM	PM	DAILY	AM	PM	DAILY
563	Industry	Storage		20/09/2007	14:30-17:30	Thursday	1416	2139	11	10	5	5		15:50	0.35	0.23	0.45		0.71			0.47			0.91	
564	Industry	Storage		20/09/2007	14:30-17:30	Thursday	646	1700	14	20	5	7		14:45	1.08	0.41	0.50		2.32			0.88			1.07	
565	Industry	Storage		20/09/2007	14:30-17:30	Thursday	1174	1201	11	28	5	4		15:55	0.34	0.33	0.36		0.85			0.83			0.91	
566	Industry	Contractor		20/09/2007	14:30-17:30	Thursday	158	2381	6	12	5	2		16:21	1.27	0.08	0.33		8.23			0.55			2.17	
567	Industry	Manufacturing		20/09/2007	14:30-17:30	Thursday	1570	2839	16	12	9	10		14:50	0.64	0.35	0.63		1.34			0.74			1.31	
568	Industry	Storage		20/09/2007	14:30-17:30	Thursday	6677	8970	25	36	8	19		15:20	0.28	0.21	0.76		0.58			0.43			1.56	
569	Industry			21/09/2007	14:00-16:15	Friday	19800	50900	454	283	30	200		17:00	1.01	0.39	0.44		0.51			0.20			0.22	
570	Industry	Storage		14/09/2007	14:20-16:50	Friday	900	2245	15-20	16	up to 30	15		14:36	1.67	0.67			0.67			0.27				
571	Industry	Storage		14/09/2007	14:20-16:50	Friday	900	2245	25-35	30	up to 30	18		15:14	2.00	0.80			0.89			0.36				
572	Industry	Commercial		14/09/2007	14:20-16:50	Friday	860	1800	10-15	12	up to 30	6		14:20	0.70	0.33			0.58			0.28				
573	Industry	Manufacturing		14/09/2007	14:20-16:50	Friday	1250	4821	05-15	20	up to 30	9		15:59	0.72	0.19			0.24			0.06				
574	Industry	Manufacturing		14/09/2007	14:20-16:50	Friday	1050	1887	15-25	19	up to 30	10		15:59	0.95	0.53			0.67			0.37				
575	Industry	Manufacturing & Commercial		14/09/2007	14:20-16:50	Friday	2020	3976	20-35	25	up to 30	19		15:31	0.94	0.48			1.04			0.53				
576	Industry	Storage & Office & Electrician		14/09/2007	14:20-16:50	Friday	1800	3962	25-40	33	up to 30	14		16:09	0.78	0.35			1.06			0.48				
578	Industry	Transport		14/09/2007	14:20-16:50	Friday	420	880	05-15	5	up to 30	4		14:59	0.95	0.45			2.38			1.14				
579	Industry	Manufacturing		14/09/2007	14:20-16:50	Friday	420	1015	5-10	8	up to 30	8		15:48	1.90	0.79			2.86			1.18				
580	Industry	Storage		14/09/2007	14:20-16:50	Friday	1330	2962		6				14:32					0.30			0.14				
581	Industry	Manufacturing		14/09/2007	14:20-16:50	Friday	800	1889	05-15	7	up to 30	1		14:35	0.13	0.05			0.75			0.32				
582	Industry	Storage		14/09/2007	14:20-16:50	Friday	30	68		1	up to 30	1		15:51	3.33	1.47			6.67			2.94				
583	Industry	Storage		27/09/2007	14:00-17:30	Thursday	1306	2325			15								0.15			0.09				
584	Industry	Storage		27/09/2007	14:00-17:30	Thursday	800	2245			6								0.13			0.04				
586	Industry	Storage		27/09/2007	14:00-17:30	Thursday	860	4821			9								0.23			0.04				
587	Industry	Commercial		27/09/2007	14:00-17:30	Thursday	1170	1887			32								0.17			0.11				
588	Industry	Manufacturing		27/09/2007	14:00-17:30	Thursday	1050	3967			15								0.48			0.13				
590	Industry	Storage		27/09/2007	14:00-17:30	Thursday	1810	1288			41								0.66			0.93				
592	Industry	Commercial		27/09/2007	14:00-17:30	Thursday	420	1015			8								0.95			0.39				
593	Industry	Manufacturing		27/09/2007	14:00-17:30	Thursday	420	2963			8								2.62			0.37				
594	Industry	Storage		27/09/2007	14:00-17:30	Thursday	1463	1669											0.27			0.24				
649	Industry	Storage		2/04/2009	7:00-18:00	Thursday		112100														0.09	0.65			
657	Industry	Industrial Park	Medium/Heavy	Week beginning 13-06-05			71,000	237,000											0.51	0.43	5.58	0.15	0.13	1.67		
658	Industry	Industrial Park	Light/Medium	Week beginning 9-06-05			42,100	127,000											1.04	1.30	11.05	0.34	0.43	3.66		
659	Industry	Industrial Park	Medium/Heavy	Week beginning 13-06-05			76,100	588,000											1.04	1.14	11.19	0.13	0.15	1.45		
671	Industry	Storage		20/09/2007	05:00-18:00	Thursday	6,650												1.17	0.47						
672	Industry			12/02/2008	14:00-15:00	Tuesday	20,570		202	195		131		14:20	0.64		0.65		0.55						0.56	