

I214.11.1. Wynyard Appendix 1 – Methodology for undertaking traffic generation surveys in Wynyard Quarter (non-statutory)

Objectives

- (a) To confirm the vehicle traffic generated by the office buildings in Wynyard Quarter during the morning and evening peak period as surveyed in 2009:
 - (i) On a 6 monthly basis for two years following the date that Plan Change 4 becomes operative; and
 - (ii) Thereafter, annually.
- (b) To confirm, on an annual basis, the mode split of persons leaving the office buildings in Wynyard Quarter during the evening peak period as surveyed in 2009;
- (c) To determine the vehicle traffic generated by new office development in Wynyard Quarter buildings;
- (d) To determine the mode split of persons leaving office buildings in Wynyard Quarter during the evening peak period; and
- (e) To determine the total number of vehicles entering and leaving Wynyard Quarter during the morning and evening peak periods.

General description of data required

Traffic generation

- (a) There are seven components to the generation of vehicle traffic that will eventually find its way to the Wynyard quarter intersections with Fanshawe Street. They are:
 - (i) Traffic generated by employees and visitors using car parks dedicated to office buildings in the area;
 - (ii) Traffic generated by visitors using short term on street parking;
 - (iii) Traffic generated by delivery vehicles;
 - (iv) Traffic generated by employees being dropped off or picked up;
 - (v) Traffic generated by land uses in the neighbouring Viaduct Harbour which will leave Wynyard Quarter through Fanshawe Street;
 - (vi) Traffic generated by 'through' vehicles; and
 - (vii) Traffic generated by non-office land uses.

The surveys are designed to enable all seven components to be identified.

Survey methodology

(1) Internal office car parks

The arrivals and departure from each of the car park will be recorded by time and direction of travel, and the following information will also be recorded:

- (a) All Cars.
- (b) The number of persons in each vehicle.
- (c) Delivery vehicles out of the car park.
- (d) Cyclists out of the car park.
- (e) Motorcycles.

There will be one surveyor recording the entrance to each car park.

(2) Mode split

All people leaving the building on foot during the evening peak period are to be counted, and a sample of the people leaving the building in the evening peak hour will be stopped and interviewed. There should be sufficient interviewers to achieve a 40% sample. The questions to be asked are:

- (a) Do you work in the building, or have you been visiting or are you delivering goods?
- (b) By what mode are you travelling?
 - Car driver?
If yes, then where have you parked your car?
 - Car passenger?
If yes, are you being picked up within Wynyard Quarter?
 - Bus?
 - Motorcycle?
 - Taxi?
 - Walk?
 - Cycle?
 - Train?
 - Ferry?

(3) Other data

- (a) Occupied spaces

Car park occupancy counts will be taken at the beginning and end of each survey period.

(b) Traffic volume counts

Tube counts on the entrances to Wynyard Quarter should be carried out at the same time as the building surveys.

(c) Intersection Counts

The intersection turning movement count data was last collected in 2005. This should be repeated at the same time as the building surveys for all five access points to Wynyard Quarter.

(d) Number plate surveys

Number plate surveys of cars in and out of the three Fanshawe Street intersections, Westhaven Drive, and Viaduct Harbour Avenue at the Custom Street end should be carried out at the same time as the intersection counts. A 20-25% sample should be aimed at (White and silver cars only). If surveyor numbers become a problem, then this survey could be carried out on a different day, as long as a count of all vehicles entering and leaving is done at the same time.

Survey date and times

The surveys should be taken between 6:30am and 9:15am and between 3:45pm and 6:30pm on a Wednesday or Thursday in March and October (when 6 monthly). They should not be taken during school or University holidays.

Buildings to be surveyed

The buildings to be surveyed are in two parts:

(a) Buildings surveyed in 2009:

Buildings Surveyed			Table 1
Building	GFA	Car Parks	Parking Ratio
Vodafone et al	34,250m ²	501	1: 68m ²
Maritime Square	21,766m ²	212	1:104m ²
Air New Zealand	15,667m ²	133	1:117m ²
NZI	9,114m ²	63	1:145m ²
BNZ	9,073m ²	135	1: 67m ²
Lumley Centre	30,321m ²	194	1:156m ²

(b) Each new office building in Wynyard Quarter, one year after occupation, and then annually thereafter.