









Queens Quay Working Group Meeting

February 17, 2011









overview

- review of preliminary findings
 - prior Working Group Meeting presentation (September 21, 2010)
- + further analysis update:
 - bus activity mapping
 - analysis of overall demands
 - analysis of peak demands
 - nodes of activity analysis
- + next steps





study scope & basic work plan

basic work plan – 6 key tasks

Phase 1

- 1. information collection & capacity building
- 2. analysis & synthesis
- 3. design & detailed design parameters
- 4. evaluation & refinement

Phase 2

- 5. potential pilot programme
- 6. input into bus management during construction

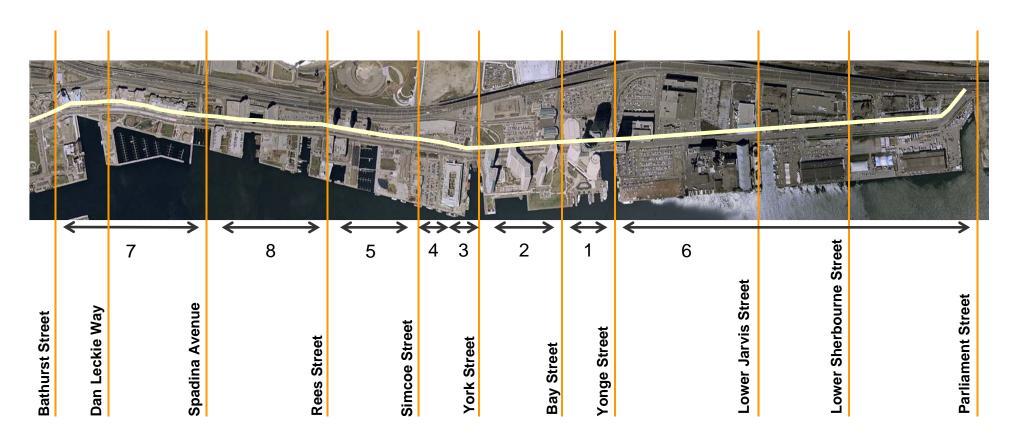






study area

broad study area



- considers Queens Quay from Dan Leckie to Parliament +
- demands & needs assessed using zones +



bus activity surveys

focussed study area - nodes of activity

A. South Side, Rees to Simcoe



B. Harbourfront Centre, east of Simcoe





C. Harbourfront Centre / Queens Quay Terminal, west of York



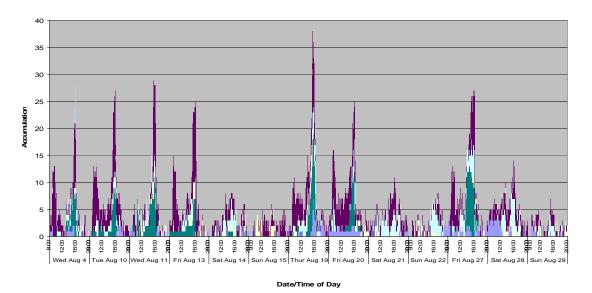


D. Westin Hotel & Conference Centre



overall bus activity surveys

total bus accumulation by zone



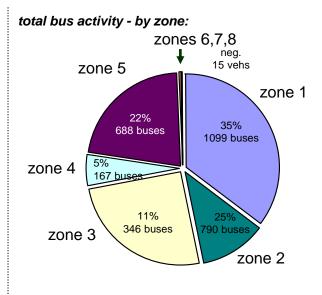


38 / 15 / 7 buses max / 95th / 85th bus accumulation

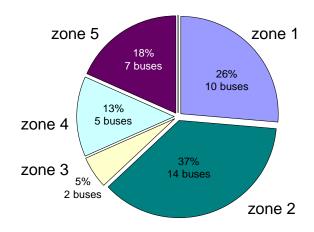
average duration of stay: 12 minutes

mean duration of stay: 3 minutes

peak time: thurs, aug 19 at 3:15 pm +



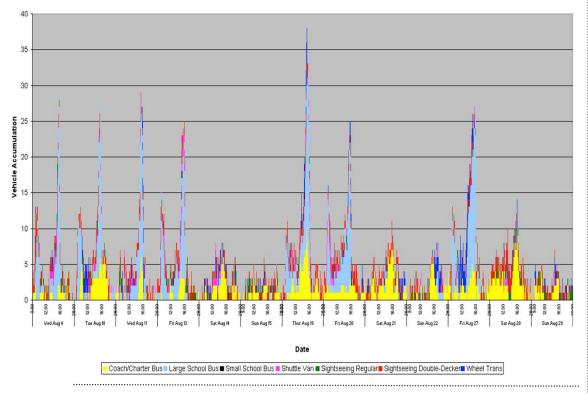
peak accumulation by zone: Thursday, August 19, 2010 - 38 buses @ 3:15 pm



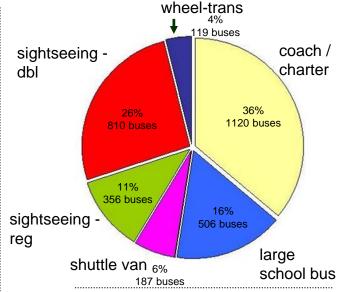


overall bus activity surveys
 total bus activity - by type:

total bus accumulation by type

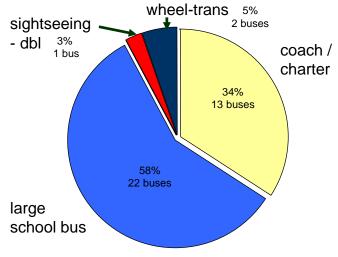


- peak accumulation: 38 buses
- 7 vehicle types ranging from large coaches to small shuttle buses and wheel-trans
- significant school bus activity
 - 16% of all activity,
 - 58% of peak accumulation (22 buses)



peak accumulation by type:

Thursday, August 19, 2010 - 38 buses @ 3:15 pm



bus activity mapping zones 1-5

Thursday, August 19, 2010 – busiest day, all day (8 am – 6 pm)





bus activity mapping zones 1-5

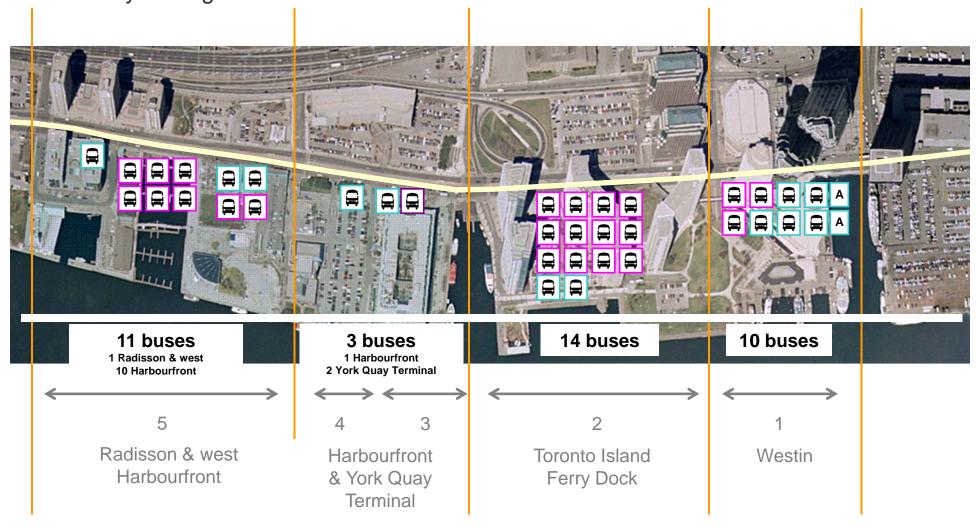
Thursday, August 19, 2010 – peak time, 3:13 pm analysis...



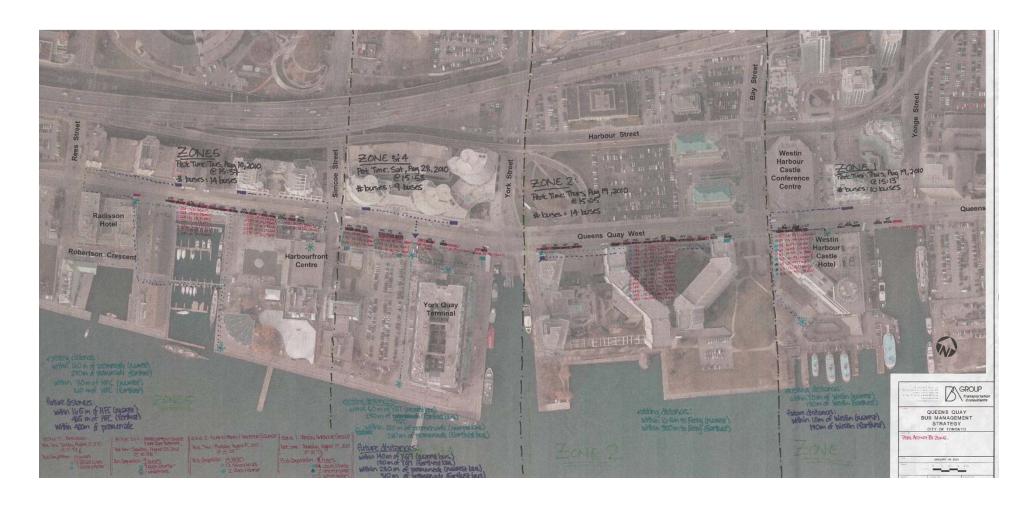


bus activity mapping zones 1-5

Thursday, August 19, 2010 – peak time, 3:13 pm summary findings...

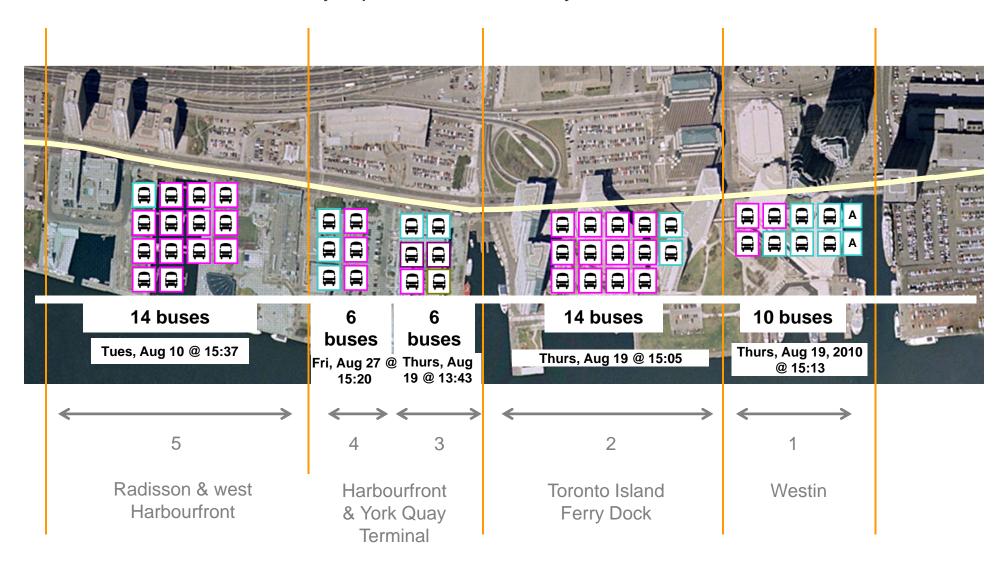


focussed nodes of activity - peak level of activity

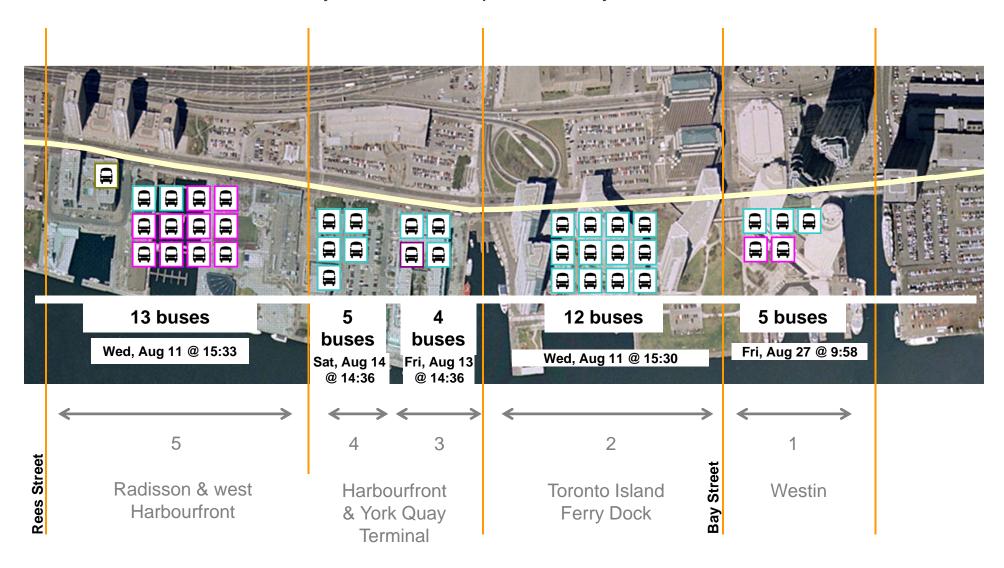




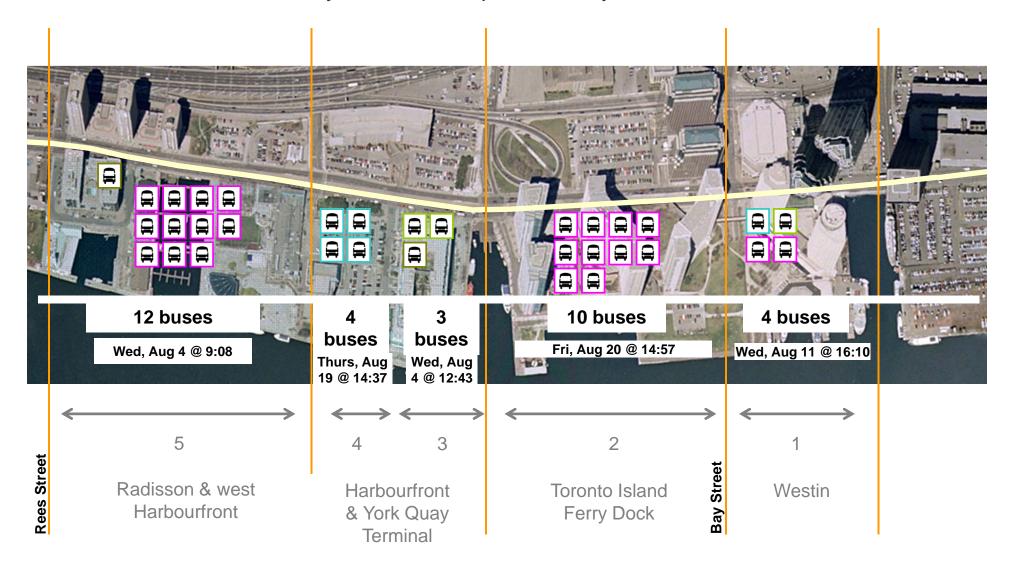
focussed nodes of activity - peak level of activity



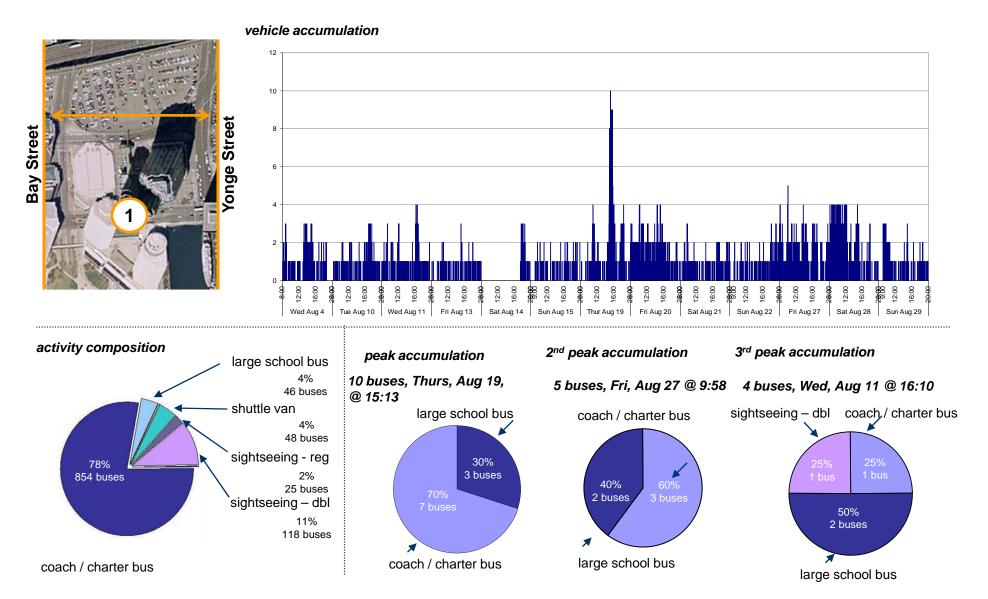
focussed nodes of activity – 2nd level of peak activity



focussed nodes of activity – 3rd level of peak activity



zone 1 (Westin) analysis





zone 1 (Westin) analysis

Vehicle Type	Coach / Charter	Large School Bus	Small School Bus	Shuttle Van	Sightseeing Bus – Regular	Sightseeing Double- Decker bus	Wheel Trans	Total
Peak Accumulation								
min	0:01	0:01	0:01	0:01	0:01	0:01	0:05	0:01
max	4:00	1:56	0:19	0:43	0:05	0:14	0:19	4:00
85th	0:05	0:43	0:13	0:14	0:03	0:02	0:16	0:06
95th	0:22	1:18	0:17	0:31	0:03	0:03	0:18	0:24
avg	0:05	0:19	0:07	0:07	0:01	0:01	0:12	0:05

1099 observations related to Westin / school buses

10/3/2 max / 95th / 85th buses at peak

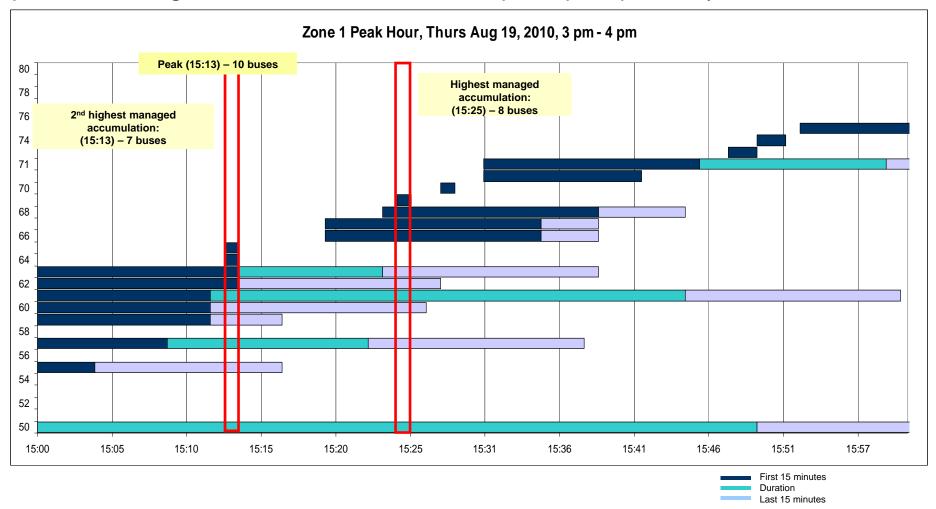
4 hrs / 24' / 6' / 5' max / 95th / 85th / avg duration of stay



zone 1 (Westin) analysis

peak activity: 10 buses, Thurs Aug 19 @ 15:13

potential managed enforcement – 15 mins for pick-up/drop-off only



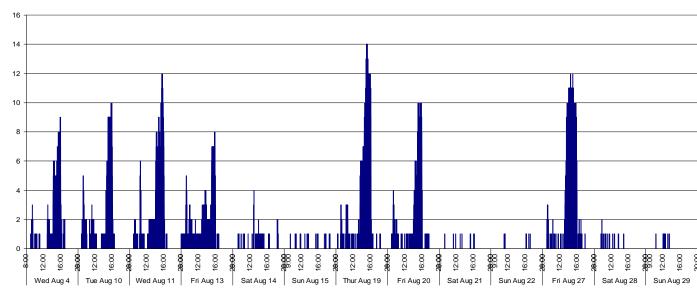


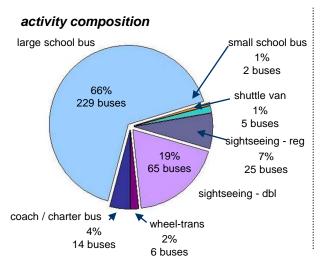


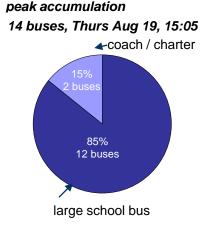
zone 2 (Island Ferry Terminal) analysis

York Street Bay Street

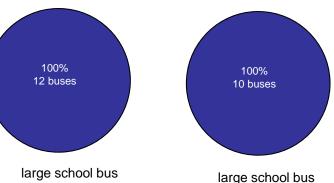
vehicle accumulation











queens quay bus management strategy | meeting with Queens Quay Working Group | february 17, 2011





zone 2 (Island Ferry Terminal) analysis

Vehicle Type	Coach / Charter	Large School Bus	Small School Bus	Shuttle Van	Sightseeing Bus - Regular	Sightseeing Double- Decker bus	Wheel Trans	Total
Peak Accumulation								
min	0:01	0:01	0:01	0:01	0:01	0:01	0:02	0:01
max	3:00	3:35	0:25	0:04	0:15	2:02	1:35	3:35
85th	0:16	1:22	0:21	0:02	0:03	0:03	0:46	0:58
95th	1:36	2:22	0:23	0:03	0:07	0:06	1:18	2:00
avg	0:22	0:33	0:13	0:02	0:02	0:04	0:24	0:24
avy	0.22	0.33	0.13	0.02	0.02	0.04	0.24	0.24

346 observations related to school buses

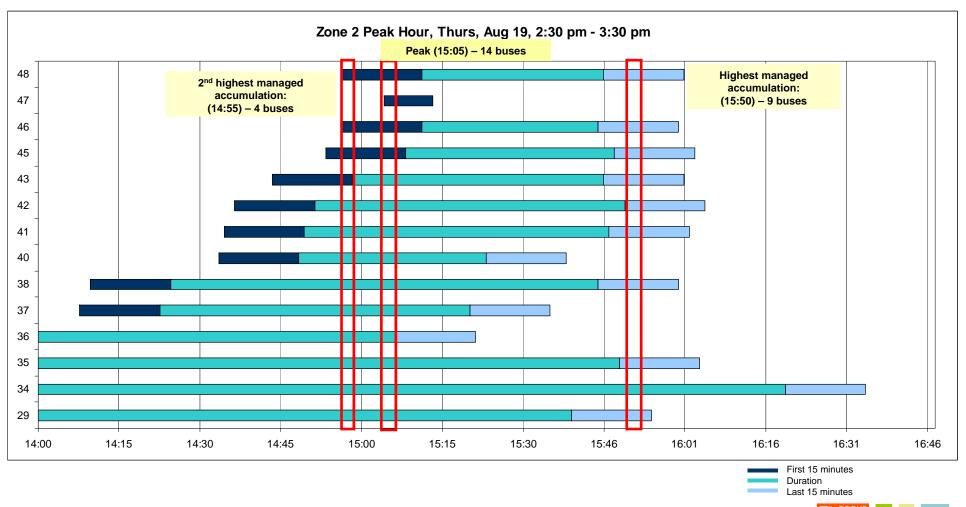
14 / 7 / 1 max / 95th / 85th buses at peak **3.58 hrs / 2 hrs / 85' / 24'** max / 95th / 85th / avg duration of stay



zone 2 (Island Ferry Terminal) analysis

peak activity: 14 buses, Thurs Aug 19 @ 15:05

potential managed enforcement – 15 mins for pick-up/drop-off only

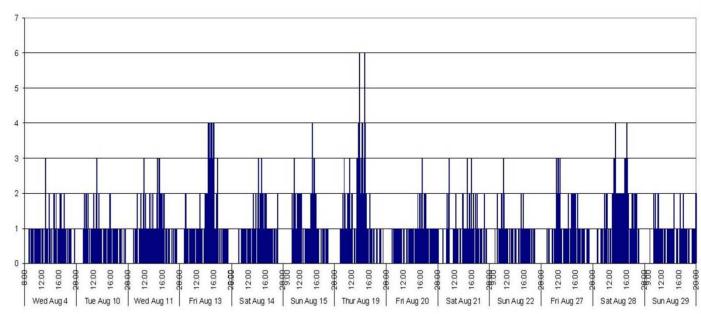


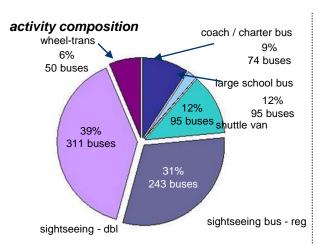


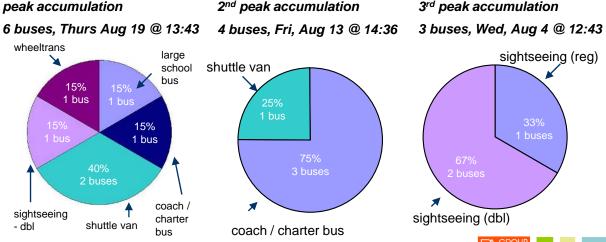
zone 3 (York Quay Terminal) analysis

vehicle accumulation











zone 3 (York Quay Terminal) analysis

Vehicle Type	Coach / Charter	Large School Bus	Small School Bus	Shuttle Van	Sightseeing Bus - Regular	Sightseeing Double- Decker bus	Wheel Trans	Total
Peak Accumulation								
min	0:01	0:01	0:00	0:01	0:01	0:01	0:01	0:01
max	2:11	0:23	0:00	2:06	1:19	0:08	0:22	2:11
85th	0:57	0:14	0:00	0:03	0:05	0:03	0:09	0:05
95th	1:23	0:18	0:00	0:06	0:08	0:05	0:14	0:18
avg	0:25	0:06	0:00	0:03	0:03	0:02	0:04	0:05

790 observations related to York / Queens Quay bus stop

6 / 2 / 1 max / 95th / 85th buses at peak

2.18 hrs / 18' / 5' / 5' max / 95th / 85th / avg duration of stay

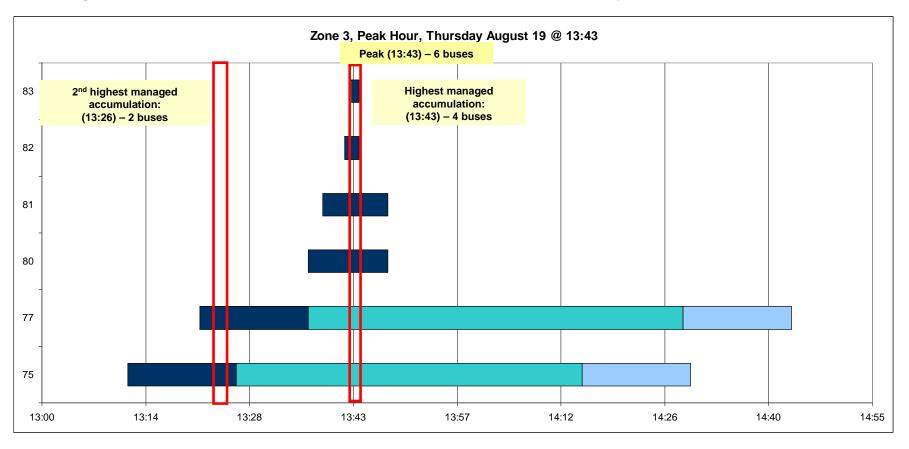




zone 3 (York Quay Terminal) analysis

peak activity: 6 buses, Thurs Aug 19 @ 13:43

managed enforcement – 15 mins for pick-up/drop-off only



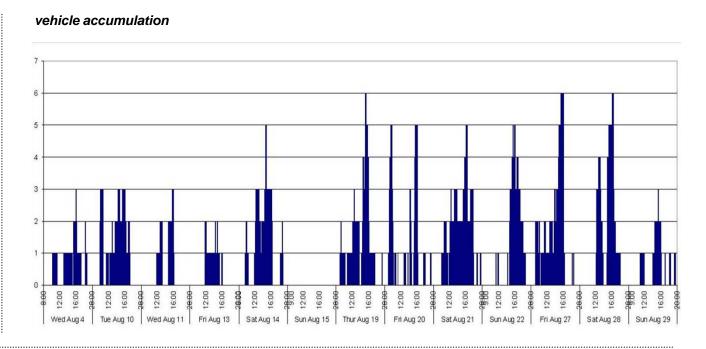


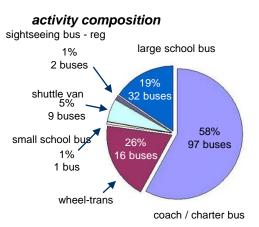


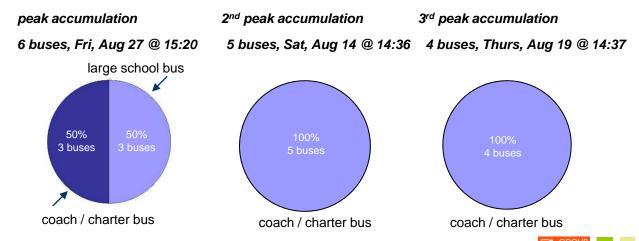


zone 4 (Harbourfront Centre) analysis









zone 4 (Harbourfront Centre) analysis

Vehicle Type	Coach / Charter	Large School Bus	Small School Bus	Shuttle Van	Sightseeing Bus - Regular	Sightseeing Double- Decker bus	Wheel Trans	Total
Peak Accumulation								
min	0:01	0:02	0:01	0:01	0:07	0:00	0:01	0:01
max	2:19	2:04	0:01	2:00	0:18	0:00	3:00	3:00
85th	1:32	1:13	0:01	1:28	0:16	0:00	0:12	1:24
95th	1:55	1:38	0:01	1:50	0:17	0:00	1:37	1:57
avg	0:53	0:40	0:01	0:47	0:12	0:00	0:16	0:43

167 observations related to Harbourfront Centre

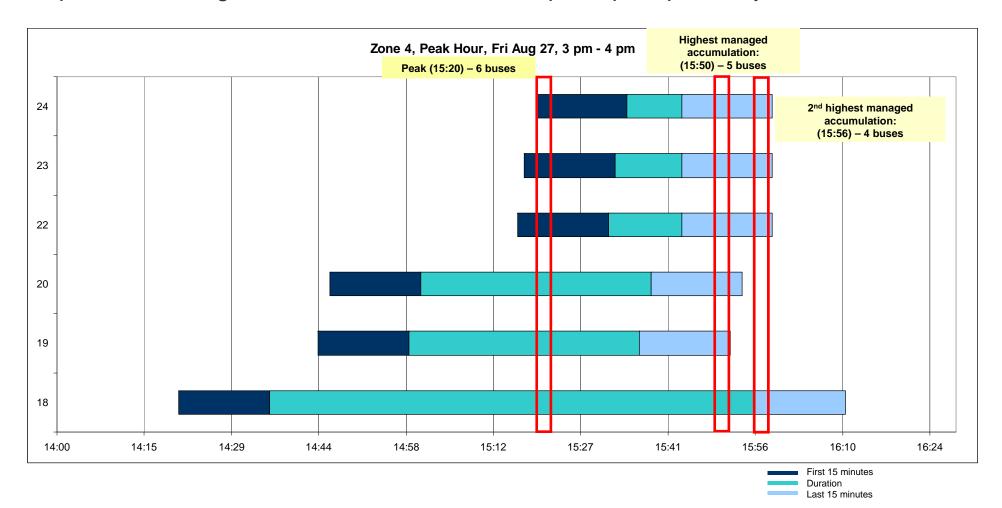
6 / 4 / 2 max / 95th / 85th buses at peak 3 hrs / 1.95 hrs / 1.4 hrs' / 43' max / 95th / 85th / avg duration of stay



zone 4 (Harbourfront Centre) analysis

peak activity: 6 buses, Fri Aug 27 @ 15:20

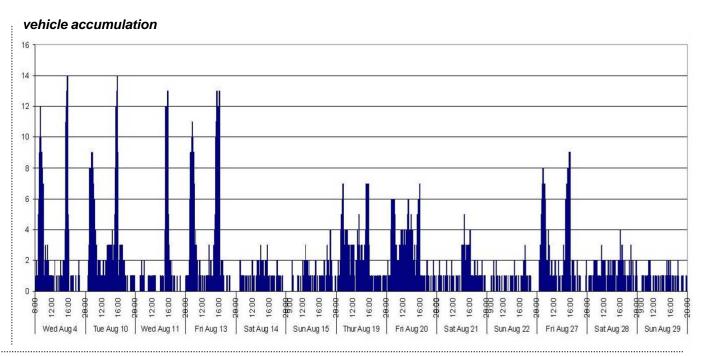
potential managed enforcement – 15 mins for pick-up/drop-off only

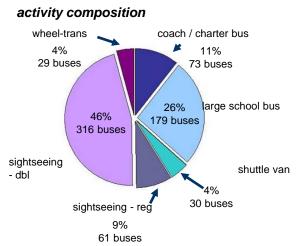


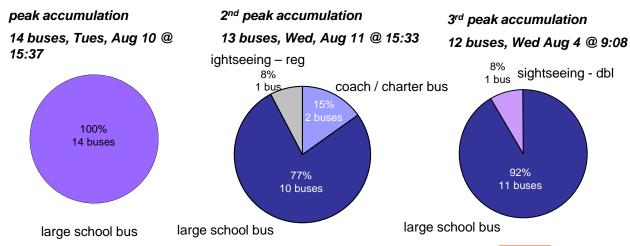


zone 5 (Radisson) analysis











zone 5 (Radisson) analysis

Vehicle Type	Coach / Charter	Large School Bus	Small School Bus	Shuttle Van	Sightseeing Bus - Regular	Sightseeing Double- Decker bus	Wheel Trans	Total
Peak Accumulation								
min	0:01	0:01	0:00	0:01	0:01	0:01	0:01	0:01
max	4:31	4:39	0:00	0:44	0:34	2:00	0:28	4:39
85th	0:50	1:06	0:00	0:29	0:10	0:10	0:08	0:42
95th	1:29	1:29	0:00	0:40	0:17	0:18	0:20	1:06
avg	0:27	0:40	0:00	0:12	0:06	0:06	0:05	0:18

688
observations related to
Radisson Hotel &
Harbourfront Centre

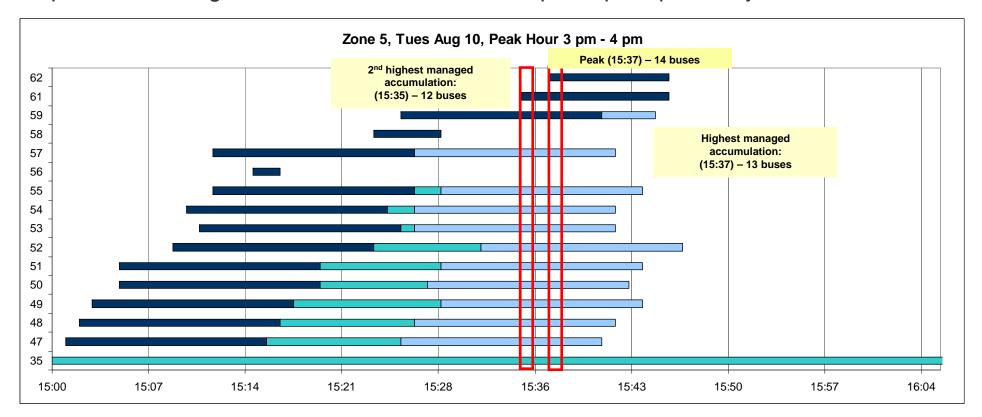
14 / 7 / 2 max / 95th / 85th buses at peak **4.65** hrs / **1.1** hrs / **42'** / **18'** max / 95th / 85th / avg duration of stay



zone 5 (Radisson) analysis

peak activity: 14 buses, Tues Aug 10 @ 15:37

potential managed enforcement – 15 mins for pick-up/drop-off only









next steps

- complete analysis & develop design parameters
- presentation of proposed physical design alternatives (mid-March)
- study of management alternatives & parking





