



RPA METRO NORTH

**Scheme Traffic Management Plan
Version 8**

Appendix Q

March 2009

Section 1 – VISSIM City Centre Results

Table Q.1 VISSIM Journey Times- City Centre

Mode	From	To	Direction	Scenario 2 - Do Construction					Scenario 3 - Do-Construction with Public Transport Gate			
				Sc 1 Do No Const Journey Time (minutes)	Journey Time (minutes)	Absolute Change	Percentage Change	Rating	Do Construction with Bus Gate	Absolute Change	Percentage Change	Rating
General Traffic	St Stephens Green	Dorset Street (Via O'Connell Street)	Northbound	17m 31s	22m 50s	05m 19s	30%	Moderate	26m 03s	08m 32s	49%	Moderate
General Traffic	Dorset Street	Merrion Row (Via O'Connell Street)	Southbound	16m 49s	22m 36s	05m 47s	34%	Moderate	N/A	03m 29s	21%	Slight
General Traffic	Lower Dorset Street	Merrion Square	Southbound	07m 42s	11m 32s	03m 50s	50%	Slight	15m 19s	07m 37s	99%	Moderate
General Traffic	Bachelors Quay	Eden Quay	Eastbound	03m 26s	05m 05s	01m 39s	48%	Slight	04m 14s	00m 51s	23%	Slight
General Traffic	Burgh Quay	Aston Quay	Westbound	03m 11s	07m 57s	04m 46s	150%	Slight	06m 39s	03m 28s	109%	Slight
Bus Route 13A	Dorset Street	Merrion Square North	Southbound	20m 54s	20m 56s	00m 02s	0%	Insignificant	19m 23s	-01m 31s	-7%	Positive
Bus Route 13A	Merrion Square South	Dorset Street	Northbound	22m 45s	28m 53s	06m 08s	27%	Moderate	31m 06s	08m 21s	37%	Severe
Bus Route	Dorset Street	George's Street	Southbound	16m 41s	19m 52s	03m 11s	19%	Slight	16m 56s	00m 15s	2%	Insignificant

Mode	From	To	Direction	Scenario 2 - Do Construction					Scenario 3 - Do-Construction with Public Transport Gate				
				Sc 1 Do No Const Journey Time (minutes)	Journey Time (minutes)	Absolute Change	Percentage Change	Rating	Do Construction with Bus Gate	Absolute Change	Percentage Change	Rating	
16A													
Bus Route 16A	George's Street	Dorset Street	Northbound	12m 43s	18m 20s	05m 38s	44%	Severe	13m 21s	00m 38s	5%	Insignificant	
Bus Route 46A	Dorset Street	Leeson Street	Southbound	19m 10s	23m 04s	03m 53s	20%	Moderate	20m 38s	01m 28s	8%	Insignificant	
Bus Route 46A	Leeson Street	Mountjoy Square North	Northbound	18m 39s	26m 19s	07m 40s	41%	Severe	17m 30s	-01m 09s	-6%	Positive	
Bus Route 41A	Dorset Street	Lower Abbey Street	Southbound	10m 39s	14m 03s	03m 25s	32%	Moderate	12m 43s	02m 04s	19%	Insignificant	
Bus Route 41A	Lower Abbey Street	Dorset Street	Northbound	04m 57s	06m 36s	01m 40s	33%	Slight	09m 01s	04m 04s	82%	Moderate	
Bus Route 77	Pearse Street	Dame Street	Westbound	11m 02s	16m 51s	05m 50s	53%	Severe	16m 39s	05m 37s	51%	Severe	
Bus	Dame Street	Townsend Street	Eastbound	06m 08s	08m	02m	37%	Slight	05m	-00m	-7%	Positive	

Mode	From	To	Direction	Scenario 2 - Do Construction					Scenario 3 - Do-Construction with Public Transport Gate				
				Sc 1 Do No Const Journey Time (minutes)	Journey Time (minutes)	Absolute Change	Percentage Change	Rating	Do Construction with Bus Gate	Absolute Change	Percentage Change	Rating	
Route 77					25s	17s				44s	25s		
Bus Route 90	Georges Quay	Aston Quay	Westbound	04m 43s	08m 25s	03m 41s	78%	Moderate	05m 04s	00m 21s	7%	Insignificant	
Bus Route 90	Bachelors Quay	Eden Quay	Eastbound	04m 13s	04m 26s	00m 13s	5%	Insignificant	04m 04s	-00m 09s	-4%	Positive	
Taxi	Dame Street	Parnell Square	Northbound	08m 24s	11m 57s	03m 33s	42%	Moderate	06m 20s	-02m 04s	-25%	Positive	
Taxi	Parnell Square	Dame Street	Southbound	06m 55s	11m 29s	04m 34s	66%	Moderate	07m 08s	00m 13s	3%	Insignificant	

Table Q.2- City Centre Average Impact

Direction	Sc 1 Do Nothing Average Journey Time	Scenario 2 Do Construction Average Journey Time	Scenario 2 Do Construction Average Impact	Scenario 3 Do Construction Plus Public Transport Gate Average Journey Time	Scenario 3 Do Construction Plus Public Transport Gate Average Impact	Scenario2 – Scenario3 Difference
General Traffic						
Northbound	15m 32s	20m 33s	32.56%	26m 57s	77.05%	44.50%
Southbound	12m 15s	17m 03s	42.14%	N/A*	N/A*	N/A*
Eastbound	03m 26s	05m 05s	48.18%	04m 14s	23.29%	-24.89%
Westbound	03m 11s	07m 57s	150.03%	06m 39s	109.07%	-40.95%
Bus						
Northbound	14m 46s	20m 02s	36.46%	17m 44s	29.43%	-7.03%
Southbound	16m 50s	19m 28s	17.89%	17m 25s	5.34%	-12.55%
Eastbound	05m 10s	06m 25s	21.26%	04m 53s	-5.15%	-26.41%
Westbound	07m 52s	12m 38s	65.49%	10m 51s	29.13%	-36.36%
Taxi						
Northbound	08m 24s	11m 57s	42%	06m 20s	-25%	-66.82%
Southbound	06m 55s	11m 29s	66%	07m 08s	3%	-62.89%

* Southbound route includes College Green which is closed in this scenario and therefore is not applicable

Section 2 – VISSIM Ballymun Results

Table Q.3- VISSIM Journey Times Ballymun

Mode	From	To	Direction	Sc 1 Do No Const Journey Time (minutes)	Scenario 3 - Do Construction With Public Transport Gate			Rating
					Journey Time (minutes)	Absolute Change	Percentage Change	
General Traffic	St Canice's Road	M50 Interchange	Northbound	05m 50s	07m 48s	01m 58s	33.52%	Slight
General Traffic	M50 Interchange	St Canice's Road	Southbound	08m 16s	18m 55s	10m 38s	128.51%	Severe
Bus Route 4A	St Canice's Road	M50 Interchange	Northbound	03m 13s	03m 22s	0m 09s	4.77%	Insignificant
Bus Route 4A	M50 Interchange	St Canice's Road	Southbound	18m 53s	19m 49s	0m 56s	4.87%	Insignificant
Taxi	St Canice's Road	M50 Interchange	Northbound	04m 38s	06m 54s	01m 08s	19.54%	Slight
Taxi	M50 Interchange	St Canice's Road	Southbound	06m 41s	12m 29s	04m 22s	53.86%	Moderate

Table Q.4 - Ballymun Northbound journey times (Cars)

From	To	Sc 1 Do No Construction Journey Time (Seconds)	Sc 3 Do Construction plus Public Transport Gate Journey Time (Seconds)
St Canices Road	St Pappins Road	53	53
St Pappins Road	Albert College Drive	15	59
Albert College Drive	Collins Avenue	58	124
Collins Ave	Shanliss Road	27	27
Shanliss Road	Gateway Avenue	17	14
Gateway Avenue	Gateway Crescent	13	17
Gateway Crescent	Siloge Road	12	11
Siloge Rd	Shangan Road	23	25
Shangan Road	Coultry Gardens	12	16
Coultry Gardens	Santry Cross	44	46
Santry Cross	Santry Business Park	28	28
Santry Business Park	M50 Interchange	48	48
Total		349	468

Table Q.5 - Ballymun Southbound Journey times (Cars)

From	To	Sc 1 Do No Construction Journey Time (Seconds)	Sc 3 Do Construction plus Public Transport Gate Journey Time (Seconds)
M50 Ballymun/ Interchange	Santry Business Park	60	113
Santry Business Park	Santry Cross	53	198
Santry Cross	Coultry Gardens	37	266
Coultry Gardens	Shangan Road	24	75
Shangan Road	Siloge Road	21	61
Siloge Rd	Gateway Crescent	12	45
Gateway Crescent	Gateway Avenue	13	53
Gateway Avenue	Shanliss Road	15	53
Shanliss Road	Collins Avenue	122	194
Collins Avenue	Albert College Drive	34	23
Albert College Drive	St Pappins Road	71	20
St Pappins Road	St Canice's Road	36	35
Total Southbound		497	1135

Table Q.6 - Ballymun Northbound Journey times (Taxis)

From	To	Sc 1 Do No Construction Journey Time (Seconds)	Sc 3 Do Construction plus Public Transport Gate Journey Time (Seconds)
St Canices Road	St Pappins Road	54	50
St Pappins Road	Albert College Drive	14	32
Albert College Drive	Collins Avenue	60	77
Collins Ave	Shanliss Road	27	40
Shanliss Road	Gateway Avenue	15	27
Gateway Avenue	Gateway Crescent	11	11
Gateway Crescent	Siloge Road	10	8
Siloge Rd	Shangan Road	22	15
Shangan Road	Coultry Gardens	12	14
Coultry Gardens	Santry Cross	47	43
Santry Cross	Santry Business Park	28	27
Santry Business Park	M50 Interchange	48	70
Total		346	414

Table Q.7 - Ballymun Southbound Journey times (Taxi)

From	To	Sc 1 Do No Construction Journey Time (Seconds)	Sc 3 Do Construction plus Public Transport Gate Journey Time (Seconds)
M50 Ballymun/ Interchange	Santry Business Park	60	122
Santry Business Park	Santry Cross	56	147
Santry Cross	Coultry Gardens	30	158
Coultry Gardens	Shangan Road	19	37
Shangan Road	Siloge Road	20	32
Siloge Rd	Gateway Crescent	11	9
Gateway Crescent	Gateway Avenue	11	11
Gateway Avenue	Shanliss Road	15	18
Shanliss Road	Collins Avenue	110	150
Collins Avenue	Albert College Drive	36	19
Albert College Drive	St Pappins Road	87	15
St Pappins Road	St Canice's Road	31	33
Total Southbound		487	749

Table Q.8 - Ballymun Northbound Journey times (Bus)

From	To	Sc 1 Do No Construction Journey Time (Seconds)	Sc 3 Do Construction plus Public Transport Gate Journey Time (Seconds)
St Canice's Road	Collins Avenue	66	72
Collins Avenue	Shangan Road	57	61
Shangan Road	Santry Avenue	48	50
Santry Avenue	M50 Interchange	22	19
TOTAL NORTHBOUND		193	202

Table Q.9 - Ballymun Southbound Journey times (Bus)

From	To	Sc 1 Do No Construction Journey Time (Seconds)	Sc 3 Do Construction plus Public Transport Gate Journey Time (Seconds)
M50 Interchange	Santry Avenue	176	283
Santry Avenue	Shangan Road	116	327
Shangan Road	Collins Avenue	405	347
Collins Avenue	St Canice's Road	437	232
TOTAL SOUTHBOUND		1134	1189

Section 3 – VISSIM Swords Results

Table Q.10- VISSIM Journey Times Swords

Mode	From	To	Direction	Scenario 3 - Do Construction With Public Transport Gate				Rating
				Sc 1 Do No Const Journey Time (minutes)	Journey Time (minutes)	Absolute Change	Percentage Change	
General Traffic	Cloughran Roundabout	Lissenhall Interchange	Northbound	06m 16s	07m 34s	01m 19s	20.85%	Slight
General Traffic	Lissenhall Interchange	Cloughran Roundabout	Southbound	06m 58s	08m 06s	01m 09s	16.46%	Insignificant

Table Q.11- Swords journey times Northbound

From	To	Sc 1 Do No Construction Journey Time (Seconds)	Sc 3 Do Construction plus Public Transport Gate Journey Time (Seconds)
Cloughran Roundabout	Pinnockhill Roundabout	162	147
Pinnockhill Roundabout	Malahide Roundabout	55	70
Malahide Roundabout	Estuary Roundabout	75	161
Estuary Roundabout	Lissenhall Interchange	84	76
Total		376	455

Figure Q.1 - Swords NB Average Journey Time

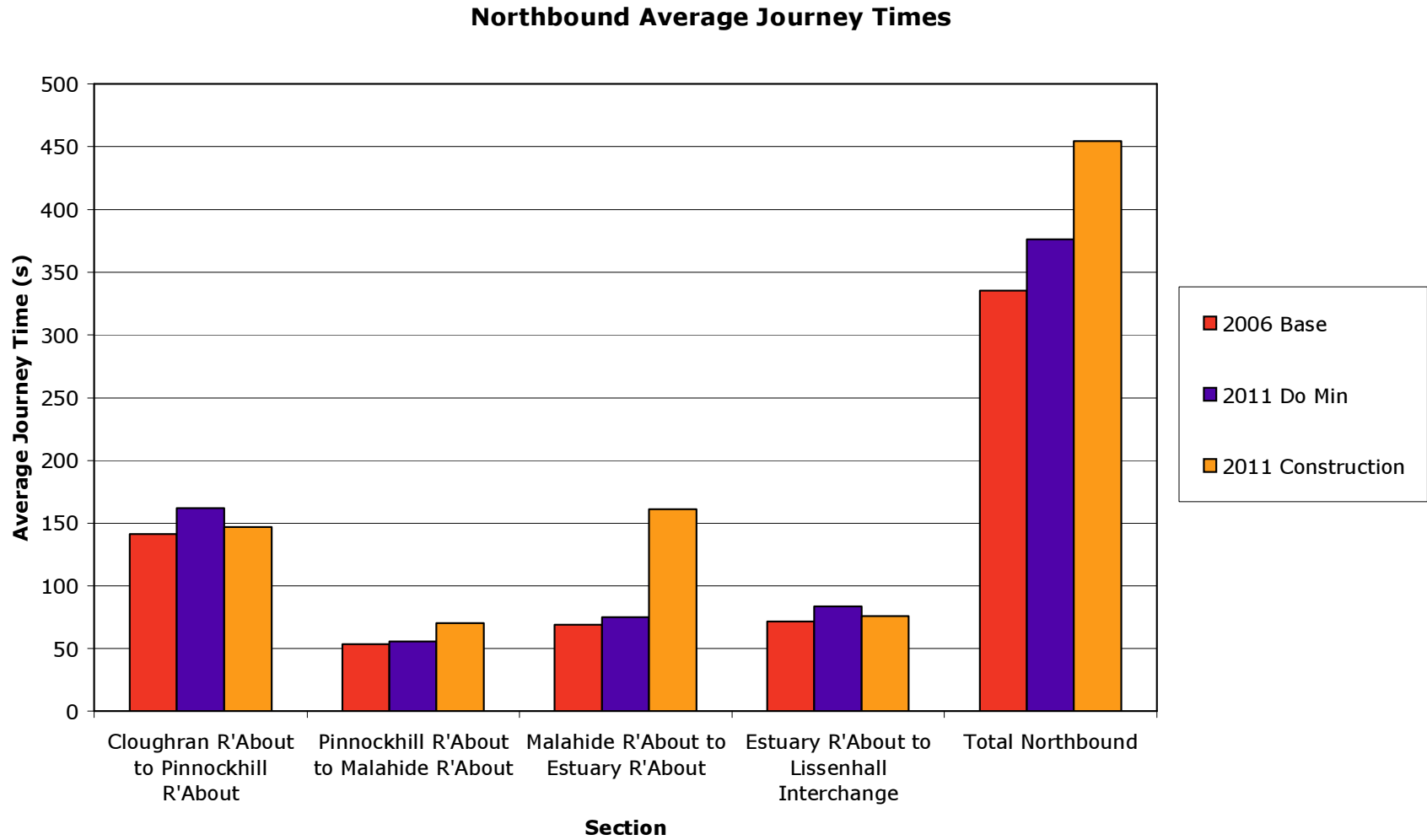
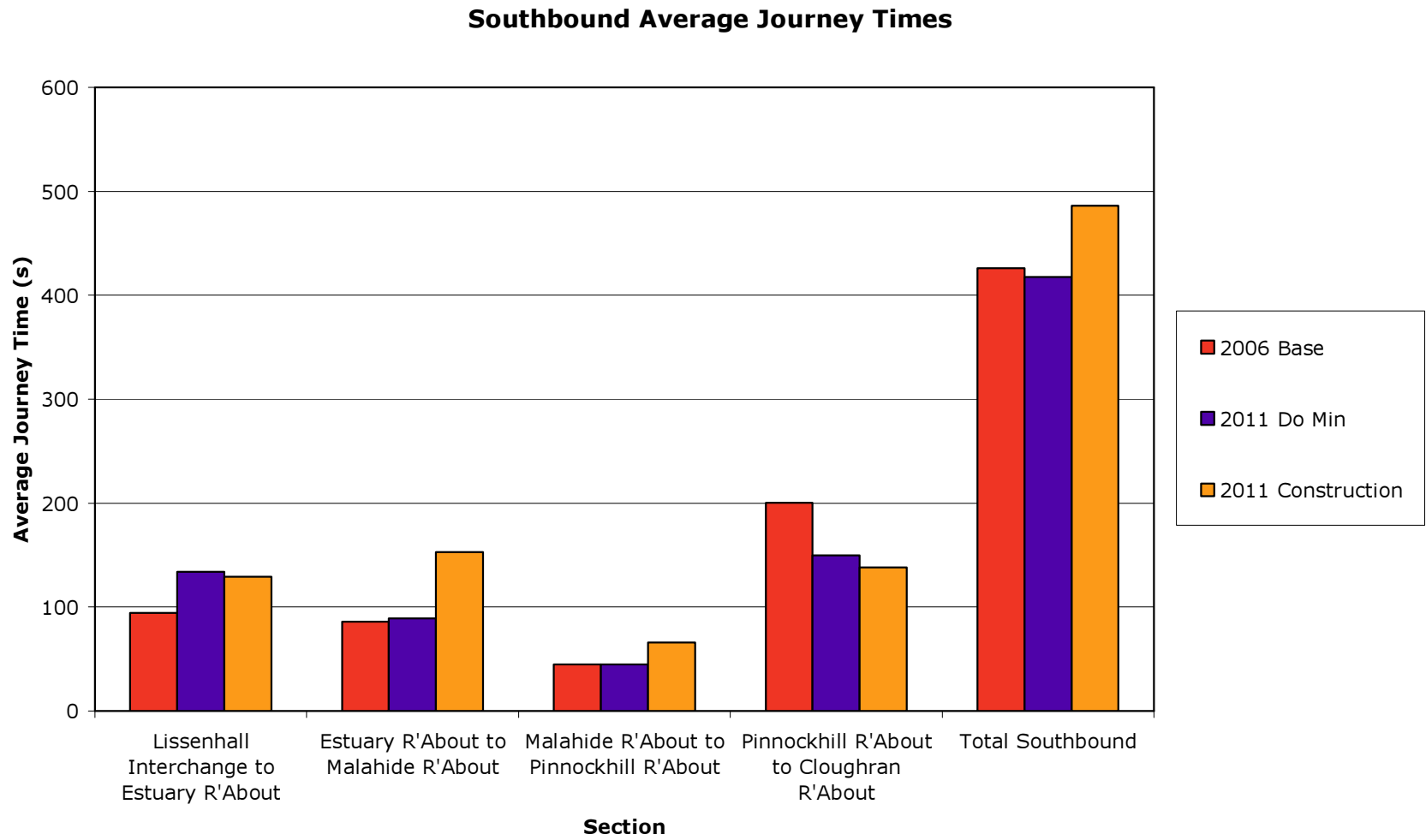


Table Q.12- Swords journey times Southbound

From	To	Sc 1 Do No Construction Journey Time (Seconds)	Sc 3 Do Construction plus Public Transport Gate Journey Time (Seconds)
Lissenhall Interchange	Estuary Roundabout	134	130
Estuary Roundabout	Malahide Roundabout	89	153
Malahide Roundabout	Pinnockhill Roundabout	45	66
Pinnockhill Roundabout	Cloughran Roundabout	150	138
Total		418	486

Figure Q.2 - Swords Southbound Average Journey Time



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