

# ATTACHMENTS FOR: AGENDA NO. 10/13 Council Meeting

Meeting Date: Tuesday 14 May 2013

Location: Council Chambers, Level 6, Civic Centre, 1 Devlin Street, Ryde

Time: 7.30pm

# ATTACHMENTS FOR COUNCIL MEETING

Item			Page
5		JES RELATED TO ELTHAM STREET, GLADESVILLE I (Traffic Management Options Paper)	-
	Attachment 1	Monash Road - Traffic Management Options Paper - May 2013	1
13	REVIEW OF C	OUNCIL'S EXISTING PREFERRED SUPPLIER LIST	
	Attachment 1	City of Ryde Preferred suppliers	48
	Attachment 2	LGP Suppliers	54
	Attachment 3	Procurement Australia available suppliers NSW April 2013	71
	Attachment 4	NSROC Preferred providers	91
	Attachment 5	NSW State Government Preferred Provider options through PROCUREPOINT	92

**ATTACHMENT 1** 



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# **PUBLIC WORKS**

COR 2009/206

"MONASH ROAD (incorporating Eltham Street)

TRAFFIC MANAGEMENT OPTIONS PAPER (TMOP)"

Issue 2: 1 May 2013



# **ATTACHMENT 1**

### **ASSESSMENT REVIEW REVISIONS TABLE**

Document No	Prepared By	Reviewed by	Issued By	Date	
Issue 1	City of Ryde / Bitzios Consulting	H.Muker / F.Ramos	H.Muker	25 April 2013	
Issue 2	City of Ryde / Bitzios Consulting	H.Muker / F.Ramos	H.Muker	1 May 2013	

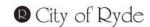


### **ATTACHMENT 1**

City of Ryde Public Works Traffic & Governance Monash Road - TMOP COR2009/206

# **TABLE OF CONTENTS**

1	PRC	POSAL DETAILS	1
2	DES	CRIPTION OF THE PROBLEM	1
3	BAC	CKGROUND	2
4	ROA	AD CLASSIFICATION PARAMETERS	2
5	DAT	A COLLECTION, TRAFFIC VOLUMES AND SPEED	4
	5.1 5.2	Traffic Data Review Traffic Volumes and Speed	4 4
6	OPT	TIONS ANALYSIS	6
	6.1	Intersection Performance/Road Capacity Review and Characteristics 6.1.1 SIDRA intersection analysis with "no" changes/alterations within the existing road	6
	6.2 6.3 6.4 6.5	environment Local Roads Collector Roads 6.3.1 SIDRA intersection analysis with "road closure" proposed along Eltham Street Sub-arterial Roads ("Regional Roads") 6.4.1 SIDRA intersection analysis with "roundabout" proposed at the intersection of Eltham Street/Monash Road/College Street Pedestrian Treatments 6.5.1 Roundabout 6.5.2 Pedestrian Refuge 6.5.3 Pedestrian Crossing 6.5.4 Signalised Pedestrian Crossing	6 7 7 8 9 10 10 10 10 10
7	CRA	ASH STATISTICS	11
8	REL	ATED DOCUMENTS	12
	8.1 8.2 8.3	SIDRA modelling results Treatment Diagrams (Traffic Facilities) 8.2.1 Speed Humps – Eltham Street 8.2.2 Roundabout – Eltham Street/College Street/Monash Road Ryde Local Traffic Committee Report (March 28 meeting) titled "Eltham Street, Gladesville –	12 23 23 24
	Requ	est for Traffic Calming"	25







# **ATTACHMENT 1**

9	OTHER			
	9.1	Automatic Tube Counts	28	
		9.1.1 Eltham Street	28	
	9.2	Intersection Turning Counts (Eltham Street/Monash Road/College Street)	29	
	9.3	SCATS Detector Counts	31	
		9.3.1 Monash Road / Victoria Road	31	
	9.4	Traffic Volume Diagrams	37	
	9.5	Traffic Generation Assumptions	42	



#### **ATTACHMENT 1**

**PUBLIC WORKS ASSESSMENT REPORT FOR** MONASH ROAD (incorporating Eltham Street) - TMOP (Rev 2) COR2009/206

#### **PROPOSAL DETAILS**

Name and Location of **Proposed Activity** 

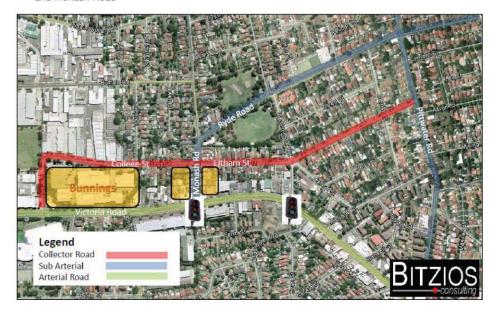
Monash Road (between Victoria Road and Ryde Road) and adjoining streets. Request for Traffic Management measures to manage both vehicle flow and speeds along Eltham Street, Gladesville between Monash Road and Westminster Road and to improve the flow of traffic as well as safety conditions at the intersection of Eltham Street, College Street and Monash Road.

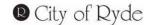
**Local Government Area** City of Ryde

#### **DESCRIPTION OF THE PROBLEM**

The matter of traffic management along Eltham Street has been recently tabled at Traffic Committee on 28 March 2013 that discussed "holistically", Road Capacity, Vehicle Speeds and Road Safety. This report was a segue, to further review the "conditions" following further investigations by Council with subsequent "findings" summarised in an "Options Paper" (purpose of this report). Following the preparation of the report for the Ryde Traffic Committee to consider "Traffic Calming" along Eltham Street an item was raised as a "Matter of Urgency" (as noted below in background) which articulates the "outcomes" to be presented/discussed in subsequent traffic assessment (as a minimum), being:

- Reduce the flow of vehicle traffic and speeds of vehicles along Eltham Street, Gladesville between Monash Road and Westminster Road; and
- Improve the flow of traffic and safety conditions at the intersection of Eltham Street, College Street and Monash Road





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PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

#### 3 BACKGROUND

Council at its meeting on 26 March 2013 resolved to adopt the following recommendation in relation to "Matters of Urgency" under the title "Traffic Issues Related to Eltham Street, Gladesville", as follows:

- (a) The Acting General Manager prepare a report detailing appropriate traffic solutions to reduce the flow of vehicle traffic and speeds of vehicles along Eltham Street, Gladesville between Monash Road and Westminster Road and to further improve the flow of traffic at the intersection of Eltham Street, College Street and Monash Road and that this report be brought back to Council by 7 May 2013.
- (b) That traffic monitoring and investigation be extended by two weeks until 19 April 2013.

Note: Council approved a one week's extension to allow staff additional time to compile the Traffic Management Options Paper.

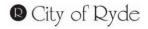
#### 4 ROAD CLASSIFICATION PARAMETERS

Roads within a network are classified according to road hierarchy which relates closely to the functional role and the associated traffic volumes which they carry. The Roads and Maritime Services of NSW (RMS) has defined four (4) classes for the classification of roads:

- Arterial Roads predominantly carry through traffic from one region to another forming principal
  avenues of communication for urban traffic movements
- Sub-arterial Roads connect the arterial road to areas of development and carry traffic directly from
  one part of a region to another. They may also relieve traffic on arterial roads in some circumstances.
- . Collector Roads Connect the sub-arterial roads to the local road system in developed areas.
- Local Roads The sub-divisional roads within a particular developed area. These are used solely as local access roads.

The RMS provides the following parameters for functional road classification specifically for the Sydney Conurbation (refer to the following page).





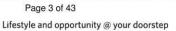


### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) - TMOP (Rev 2) COR2009/206

	145141100 (	Desirable Features for Each Road Class				
FACTOR	MEASURE of EFFECTIVENESS	ARTERIAL	SUB-ARTERIAL	COLLECTOR	LOCAL	
Vehicle Speed	Operating speed	70 - 110 km/h	60 - 80 km/h	40 - 60 km/h	40 km/h or les	
Traffic Use	Daily volume (vpd) In a residential area In other areas	No limit No limit	20,000 vpd max 20,000 vpd max	5,000 vpd max 10,000 vpd max	2,000 vpd ma: 4,000 vpd ma:	
Intersection Spacing	Cross street interference	Approx 1 km	Approx 0.5 km			
Road Geometry	Number of travel lanes Medians Min carriageway width	4 or more Yes 13 m	2 or more As needed 7 m	2 or more No 7 m	1 or more No 4 m	
Heavy Vehicles	Load restrictions	None	Preferably none	Yes, if residential	Yes, if residential	
Traffic Management	Parking Intersection control Lane & separation lines Property access Control of turning veh's mid-block acc's control Right turn bays Road closures LATM devices SATM devices	None Yes Minimised Median cont'I Yes None	Prefer none REFER TO Yes Minimised Maybe control Preferred None Yes	Yes TABLE 1.2.5a Maybe Yes No No Possible Yes	Yes No Yes No No Yes Yes	
Pedestrian Crossings	Type of crossing	Grade separated or signals	Signals or refuge	Marked crossing Children's xing or refuge	Marked x'ing Children's xin or refuge	

Extract from the RMS's Road Design Guide - 1991







#### ATTACHMENT 1

**PUBLIC WORKS ASSESSMENT REPORT FOR** MONASH ROAD (incorporating Eltham Street) - TMOP (Rev 2) COR2009/206

#### 5 DATA COLLECTION, TRAFFIC VOLUMES AND SPEED

#### **Traffic Data Review** 5.1

The following traffic data was collected:

- Eltham Street / Monash Road intersection turning count survey (GTK Consulting), 5 April 2013
- SCATS detector counts, 4 April 2013
- Automatic tube counts (CFE), 5-11 April 2013

These counts were undertaken starting either the 4<sup>th</sup> or 5<sup>th</sup> of April. This week was after the Easter long weekend, and the preceding Monday was a public holiday. School holidays began the week after the 5<sup>th</sup> of April. It is therefore likely that traffic conditions on these days would not have represented the average weekday conditions.

To supplement the data, a review was undertaken comparing the most recent data to data provided in the traffic impact assessment for the proposed Bunnings Development (TTPA March 2012) and the proposed supermarket development, 407-417 Victoria Road & 1-9 Monash Road Gladesville (Varga Traffic Planning, December 2012).

It was found that the volumes of traffic westbound on Victoria Road in the SCATS detector counts were considerably less (400veh/hr) than volumes reported in the TTPA report and Varga Sidra models. SCATS detectors can sometimes be unreliable especially in congested conditions. The base traffic volumes were therefore adopted from the TTPA report for the Monash Road / Victoria Road intersection.

Traffic volumes at Eltham Street / College Street / Monash Road intersection were compared to the volumes used by Varga in the traffic impact assessment. The volumes from the recent intersection counts by GTK consulting were found to be marginally higher than those used in the Varga Report. Therefore the volumes from the GTK Consulting traffic surveys were used.

#### 5.2 Traffic Volumes and Speed

The table below details results obtained from traffic volume and speed surveys that were undertaken during the period 5 April to 11 April 2013

Street Name	Location of Counter (House Number)	85 <sup>th</sup> % Speed	5-day AADT	7-day AADT	Peak Hour Volume (bidirectional)		Comment
					AM (8am – 9am)	PM (5pm – 6pm)	
Eltham Street	54	57	2208	2041	196	206	Greater than 2000 vpd but less than 5000 vpd

The site plan on the following page illustrates the approximate deployment point of traffic counter detailed in the table above.







### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) - TMOP (Rev 2)

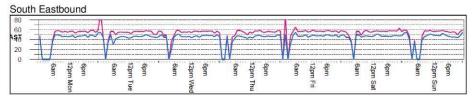
#### **Location Plan of Traffic Count Sites**

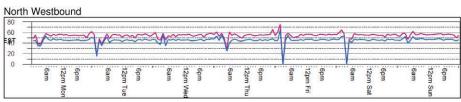


The daily traffic volumes are just greater than the 2200 vehicles per day target from the Road Design Guide, with the peak hourly traffic volumes around 200 vehicles per hour. The RTA Guide to Traffic Generating Developments (Table 4.6) sets out criteria for Environmental Capacity performance standards on residential streets. The goal for a Collector Road is a traffic volume of 300 vehicles per hour and the maximum 500 vehicles per hour.

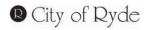
The 85<sup>th</sup> percentile speed of 57 km/h, while exceeding the speed limit of 50km/h, is probably typical for residential streets with geometry similar to Eltham Street, and is not considered excessive. Nevertheless, an 85th percentile speed of 50 km/hr is desirable.

The speeds by time of day are shown on the graphs below. It shows that speeds are generally constant throughout the day. Late night data when traffic volumes are low are typically unreliable which explains the sudden peaks and troughs seen between 3am and 6am. The blue line represents the 50th percentile speed while the pink line represents the 85<sup>th</sup> percentile speed.





Page 5 of 43 Lifestyle and opportunity @ your doorstep



#### ATTACHMENT 1

**PUBLIC WORKS ASSESSMENT REPORT FOR** MONASH ROAD (incorporating Eltham Street) - TMOP (Rev 2) COR2009/206

#### 6 **OPTIONS ANALYSIS**

#### Intersection Performance/Road Capacity Review and Characteristics

Using available traffic count data for the intersections of Victoria Road/Monash Road, and Monash Road/Eltham Street/College Street, capacity analyses have been undertaken using the SIDRA Intersection software.

Three (3) scenarios were evaluated:

- '2013 Existing' existing traffic conditions before approved development at 1-9 Monash Road
   '2013 Existing with Development' existing traffic conditions following completion of approved development at 1-9 Monash Road'
- 3. '2023 with Future Development' existing traffic conditions factored up with 10 years of 'background' traffic growth (assuming 1% linear per annum), plus approved development at 1-9 Monash Road, plus proposed Bunnings development at 461 Victoria Road, plus maximum potential development of the western side of Monash Road (Victoria Road to College Street) in accordance with the relevant DCP.

#### 6.1.1 SIDRA intersection analysis with "no" changes/alterations within the existing road environment

The results of the SIDRA intersection analyses are summarised in the table below:

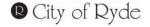
Intersection	Peak Period	2013 Existing		2013 Existing with Development		2023 with Future Development	
		Avg Delay (S)	LoS	Avg Delay (S)	LoS	Avg Delay (S)	LoS
Victoria Road / Monash Road	AM	12.5	Α	12.5	Α	13.2	Α
(Signals)	PM	11.0	Α	11.8	Α	14.5	Α
Monash Road / Eltham Street / College Street	AM	27.1	В	27.8	В	35.5	С
(Stop sign controlled)	PM	31.2	С	41.2	С	61.6	E

Note: Average delay and Level of Service for priority sign controlled intersections is for the worst movement. For traffic signal intersections, this is the average delay and Level of Service for the entire intersection.

The modelling has shown that the operation of the signalised intersection of Victoria Road/Monash Road would remain acceptable (at Level of Service 'A') even with maximum proposed development in 2023. The southbound queue in Monash Road has the potential to block the Monash Road/Eltham Street/College Street intersection (approximately 105m away.) The modelling showed that the 95<sup>th</sup> percentile queue length was a maximum of 121m in the 2023 PM scenario. Recent queue length surveys indicated that this queue exceeded 120m in only one 15 minute period from 5:00 PM to 5:15 PM.

The modelling of the Stop sign controlled intersection of Monash Road/Eltham Street/College Street shows a gradual increase of delay in the AM peak period, but the worst LoS is C, which is still acceptable. This is for the Eltham Street westbound through movement of just 22 vehicles per hour. In the PM peak period, the LoS deteriorates to 'E'. Again, this is for the Eltham Street through movement of just 24 vehicles per hour. The results indicate that there is insufficient justification for alternative treatments at this intersection in the short to medium term based on traffic efficiency. The situation should be reviewed following the opening of the development at 1-9 Monash Road, and as part of the assessment of any future developments on the western side of Monash Road.

Page 6 of 43



### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

#### 6.2 Local Roads

The following table below details the various traffic management options that could be considered to ameliorate the incidence of speeding and to improve accessibility, if possible, on Eltham Street.

Measure Consti		Estimated Construction Cost	Comments					
LOCAL ROADS								
College Street								
No treatments proposed	Not Applicable	Not Applicable	Not Applicable	Not Applicable				

#### 6.3 Collector Roads

Traffic Management Measure	Advantages	Disadvantages	Estimated Construction Cost	Comments				
COLLECTOR ROADS (including "Minor" Collector Roads – based on cross sectional profile)								
Eltham Street				Part 5: "Traffic Volumes and Speed" confirms that traffic volumes are within acceptable limits but traffic speeds are a little high. Measures to reduce the incidence of speeding could be considered.				
Speed Humps (two required, spaced some 80m apart)	Reduce speeds and discourage through traffic.	Noise associated with braking and accelerating over the hump.  May increase traffic volumes on other streets such as Monash Road or Ryde Road.  Emergency services (such as ambulance) are generally not supportive of speed humps as they may compromise patient wellbeing, due to vertical translation across the traffic facility	\$30,000 + lighting	Council in the past is not supportive of traffic management measures of this type. The curvature of the road at gutter level may render this facility problematic as cars that abut the facility may find difficulties in traversing across the hump at the outer extremities. Note: A concept				

Page 7 of 43 Lifestyle and opportunity @ your doorstep



### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

				plan has been provided (refer to Section 8.2)
Eltham Street Closure (east of driveway access to the approved mixed use development)	Reduction in through vehicle trips separating residential traffic from supermarket traffic.	Increases in some trip distance. Less direct access for emergency vehicles.  May encourage some supermarket customers to park on street in Eltham Street (east) rather than drive around the block to access the off-street car park.  Service vehicles such as Garbage trucks will need to perform a U turn or 3-point turn, at the closure point.  Emergency vehicles do not support mid-block closures.	\$20,000 + lighting	May lead to other undesirable amenity issues in the area

#### 6.3.1 SIDRA intersection analysis with "road closure" proposed along Eltham Street

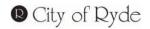
Further analysis in Sidra was undertaken for the scenario where there is a closure in Eltham Street. The results of the analysis are shown in the table below. Through traffic in Eltham Street was assumed to be redirected via other routes.

Intersection	Peak Period	Peak Period   2013 Existing with Development With Eltham St Closure		2023 with Future Development With Eltham St Closure		
		Avg Delay (S)	LoS	Avg Delay (S)	LoS	
Victoria Road / Monash Road	AM	11.5	Α	12.0	А	
(Signals)	PM	11.6	Α	13.9	Α	
Monash Road / Eltham Street /	AM	27.4	В	33.9	С	
College Street (Stop sign controlled)	PM	36.2	С	48.0	D	

Note: Average delay and Level of Service for priority sign controlled intersections is for the worst movement. For traffic signal intersections, this is the average delay and Level of Service for the entire intersection.

The results indicate that the closure would improve the operation of the Monash Road / Eltham Street / College Road by removing the through traffic, however, other undesirable amenity impacts as noted in the table above would likely surface.

Page 8 of 43



### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

#### 6.4 Sub-arterial Roads ("Regional Roads")

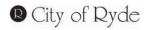
Traffic Management Measure	Advantages	Disadvantages	Estimated Construction Cost	Comments					
SUB-ARTERIAL ROADS									
Monash Road									
Roundabout at Eltham Street / College Street / Monash Road intersection	Allows all traffic movements to enter an intersection in a controlled environment where the driver must give way to the first vehicle that enters the roundabout. Would reduce delays to vehicles proceeding through or turning right from both Eltham and College Streets.	May cause delays to through movements on Monash Road if right turns are dominant.  College Street does not align with Eltham Street so the geometry might be challenging, especially for northbound trucks accessing the proposed Aldi supermarket, via Eltham Street.  May encourage more through traffic to use College and Eltham Streets.	\$130,000 (for roundabout) + lighting	A concept plan has been prepared (refer to Section 8.2)					

# 6.4.1 SIDRA intersection analysis with "roundabout" proposed at the intersection of Eltham Street/Monash Road/College Street

Further analysis in Sidra was undertaken for the scenario where there is a roundabout proposed at the intersection of Eltham Street/Monash Road/College Street.

Intersection	Peak Period	2013 E	Existing		sting with opment	STREET, STREET, STREET,	th Future opment
		Avg Delay (S)	LoS	Avg Delay (S)	LoS	Avg Delay (S)	LoS
Monash Road / Eltham Street / College Street	PM	31.2	С	41.2	С	61.6	E
(Stop sign controlled)							
Monash Road / Eltham Street / College Street	PM	-	128	26	ies.	15.9	В
(Roundabout)							

Page 9 of 43



#### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

#### 6.5 Pedestrian Treatments

Options are discussed below for providing pedestrian facilities on Monash Road. With the provision of a super market at the corner of Monash Road / Victoria Road it is likely that the demand for pedestrians to cross Monash Road will increase. It is understood that pedestrian access to the supermarket will be provided from both Monash Road and Victoria Road.

#### 6.5.1 Roundabout

Roundabouts provide some protection for pedestrians within the splitter islands. Pedestrians would be able to stage their crossings of Monash Road.

#### 6.5.2 Pedestrian Refuge

A pedestrian refuge would also provide some protection for pedestrians allowing them to stage their crossings. A pedestrian refuge would require at least 2m of road width for the island. This could restrict the ability to have two through lanes in either direction. It would be preferable to allow two lanes on approach to Victoria Road to give the signalised intersection better efficiency and additional storage space. For this reason any pedestrian refuge should be located in Monash Road north of Eltham Street and College Street.

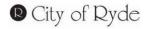
#### 6.5.3 Pedestrian Crossing

A pedestrian crossing or zebra crossing would provide priority for pedestrians crossings Monash Road. For safety reasons the crossing should not cover two lanes travelling in the same direction. This is because a vehicle stopped at the crossing would restrict sight distance to pedestrians on the crossing. To maintain two lane storage on the approach to Victoria Road it is suggested that any pedestrian crossing be located north of Eltham Street on Monash Road. Because a pedestrian crossing would give priority to pedestrians, it is possible that high pedestrian demand could cause queuing in Monash Road. It is doubtful that the RMS warrants for a pedestrian crossing would be met under current traffic conditions, so the situation should be reviewed after the opening of the mixed use development.

#### 6.5.4 Signalised Pedestrian Crossing

A signalised pedestrian crossing was not considered in Monash Road mid-block as it was thought to be too close to the existing traffic signals at Monash Road / Victoria Road. There is an existing signalised crossing on the Monash Road approach and this is considered adequate if a door to the supermarket is located close to the corner of Monash Road / Victoria Road. In this way the existing signalised crossing would be close to the natural desire line of pedestrians travelling to and from the west. This would also be more desirable than encouraging pedestrians to walk through the car park or loading dock area to access the supermarket.





### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

#### 7 CRASH STATISTICS

As noted in the Traffic Committee report (Item 21 'Eltham Street, Gladesville, Request for traffic calming':

It should be noted that the crash history on Eltham Street between Monash Road and Westminster Road indicates that there has been only one collision between 2003 and 2012. The collision involved one vehicle colliding with the rear of another in 2008.

Crash data for the Eltham Street / Monash Road intersection from 2004 to 2011 indicates that there was less than one crash per year at this location. The majority of these crashes are RUM code 10 which is vehicles colliding perpendicular from adjacent approaches.

Street Name		Crash Year (All	Accidents are	defined below	as a RUM Code	·)
	2005	2006	2007	2008	2009	2010
		*	Collect	or Roads	•	400
Eltham Street / Monash Road	Nil	1x (RUM 10)	Nil	1x (RUM 10)	1x (RUM 10)	1x (RUM 21)

#### Note (RUM Codes):

- >> RUM 10: through from Eltham Street colliding with through from Monash Road (northbound)
- >> RUM 21: right out of College Street colliding with through from Eltham Street.

Of the two treatment options considered for the intersection it is anticipated that introducing a roundabout will eliminate or significantly reduce the collisions listed above. However, the road closure will not have any impact.





#### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

#### 8 RELATED DOCUMENTS

#### 8.1 SIDRA modelling results

Victoria Road/Monash Road signalised intersection

#### **MOVEMENT SUMMARY**

Site: Victoria Road / Monash Road 2013 Existing AM

Victoria Road / Monash Road 2013 Existing AM

Signals - Fixed Time Cycle Time = 120 seconds (Optimum Cycle Time - Minimum Delay)

Mov ID		Demand	HV	Deg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec		veh			per veh	km/h
East: Vi	ctoria R	oad (E)									
5	T	1420	1.3	0.518	1.9	LOS A	4.4	31.5	0.12	0.11	56.4
6	R	92	3.4	0.470	26.0	LOS B	3.3	23.7	0.63	0.78	33.9
Approac	h	1512	1.5	0.518	3.3	LOS A	4.4	31.5	0.15	0.15	54.4
North: N	Ionash I	Road (N)									
7	L	79	1.3	0.644	55.4	LOS D	13.0	91.3	0.97	0.83	22.2
9	R	387	0.3	0.644	55.8	LOS D	13.0	91.3	0.98	0.83	22.2
Approac	h	466	0.5	0.644	55.7	LOS D	13.0	91.3	0.97	0.83	22.2
West: V	ictoria F	Road (W)									
10	L	397	0.3	0.663	15.0	LOS B	15.8	111.5	0.40	0.89	42.1
11	Т	1951	1.1	0.663	8.8	LOS A	18.4	130.1	0.44	0.41	46.6
Approac	h	2347	0.9	0.663	9.8	LOS A	18.4	130.1	0.43	0.49	45.8
All Vehic	cles	4325	1.1	0.663	12.5	LOS A	18.4	130.1	0.39	0.41	43.2

#### **MOVEMENT SUMMARY**

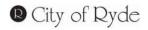
Site: Victoria Road / Monash Road 2013 Existing PM

Victoria Road / Monash Road 2013 Existing PM

Signals - Fixed Time Cycle Time = 125 seconds (Optimum Cycle Time - Minimum Delay)

Movem	ent Pe	erformance	- Vehi	cles							
Mov ID	Turn	Demand Flow	HV	Deg. Satn	Average Delay	Level of Service	95% Back Vehicles	of Queue Distance	Prop. Queued	Effective Stop Rate	Average Speed
		veh/h			sec		veh			per veh	km/h
East: Vi	ctoria R	oad (E)									
5	Т	1935	1.3	0.687	2.1	LOS A	8.3	58.9	0.16	0.15	56.0
6	R	99	3.2	0.475	25.5	LOS B	3.6	26.2	0.62	0.78	34.2
Approac	h	2034	1.4	0.687	3.2	LOS A	8.3	58.9	0.18	0.18	54.4
North: N	lonash	Road (N)									
7	L	96	1.1	0.638	58.1	LOS E	12.6	88.9	0.98	0.83	21.7
9	R	334	0.3	0.638	59.0	LOS E	12.6	88.9	0.98	0.83	21.5
Approac	h	429	0.5	0.638	58.8	LOS E	12.6	88.9	0.98	0.83	21.5
West: V	ictoria F	Road (W)									
10	L	472	0.2	0.680	13.8	LOS A	15.3	107.4	0.36	0.87	42.9
11	Т	1999	1.1	0.680	8.0	LOS A	19.1	134.6	0.41	0.38	47.5
Approac	h	2471	0.9	0.680	9.1	LOS A	19.1	134.6	0.40	0.48	46.6
All Vehic	cles	4934	1.1	0.687	11.0	LOS A	19.1	134.6	0.36	0.38	44.7

Page 12 of 43



### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

#### **MOVEMENT SUMMARY**

Site: Victoria Road / Monash Road 2013 Existing With Dev AM

		erformance		0.765							
Mov ID	Turn	Demand	HV [	eg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec		veh			per veh	km/h
East: Vid	ctoria R	oad (E)									
5	T	1420	1.3	0.518	1.9	LOS A	4.4	31.5	0.12	0.11	56.4
6	R	94	3.4	0.478	26.1	LOS B	3.4	24.6	0.64	0.78	33.9
Approac	h	1514	1.5	0.518	3.4	LOS A	4.4	31.5	0.15	0.15	54.3
North: N	Ionash I	Road (N)									
7	L	84	1.3	0.657	54.9	LOS D	13.3	93.4	0.97	0.83	22.4
9	R	393	0.3	0.657	55.7	LOS D	13.3	93.4	0.98	0.83	22.2
Approac	h	477	0.4	0.657	55.5	LOS D	13.3	93.4	0.98	0.83	22.2
West: V	ictoria F	Road (W)									
10	L	399	0.3	0.664	14.7	LOS B	15.3	107.4	0.39	0.89	42.3
11	Т	1951	1.1	0.664	8.7	LOS A	18.4	130.3	0.43	0.40	46.6
Approac	h	2349	0.9	0.664	9.7	LOS A	18.4	130.3	0.43	0.49	45.9
All Vehic	cles	4340	1.1	0.664	12.5	LOS A	18.4	130.3	0.39	0.41	43.2

#### **MOVEMENT SUMMARY**

Site: Victoria Road / Monash Road 2013 Existing With Dev PM

Victoria Road / Monash Road 2013 Existing Existing With Development PM Signals - Fixed Time 

Cycle Time = 120 seconds (Optimum Cycle Time - Minimum Delay)

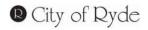
Mov ID	Turn	Demand	HV	Deg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec					per veh	km/h
East: Vi	ctoria R	oad (E)									
5	Т	1935	1.3	0.698	2.1	LOS A	8.2	58.3	0.16	0.15	55.9
6	R	127	2.5	0.607	30.1	LOS C	5.7	40.8	0.78	0.83	31.8
Approac	h	2062	1.4	0.698	3.8	LOS A	8.2	58.3	0.20	0.19	53.5
North: N	lonash l	Road (N)									
7	L	126	0.8	0.693	56.5	LOS D	14.2	100.0	0.98	0.85	22.0
9	R	364	0.3	0.693	57.5	LOS E	14.2	100.0	0.99	0.85	21.8
Approac	h	491	0.4	0.693	57.2	LOS E	14.2	100.0	0.99	0.85	21.8
West: V	ctoria R	load (W)									
10	L	500	0.2	0.695	13.9	LOS A	15.9	111.8	0.39	0.87	42.8
11	Т	1999	1.1	0.695	8.3	LOS A	19.8	140.2	0.44	0.41	47.0
Approac	h	2499	0.9	0.695	9.4	LOS A	19.8	140.2	0.43	0.50	46.1
All Vehic	cles	5052	1.1	0.698	11.8	LOS A	19.8	140.2	0.39	0.41	43.9

#### **MOVEMENT SUMMARY**

Site: Victoria Road / Monash Road 2023 Existing With Dev AM

Victoria Road / Monash Road 2023 Existing With Development AM Signals - Fixed Time 
Cycle Time = 120 seconds (Optimum Cycle Time - Minimum Delay)

Page 13 of 43



### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

Movem	nent Pe	erformance	- Vehic	cles							
Mov ID		Demand	HV [	Deg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec		veh			per veh	km/h
East: Vi	ctoria R	oad (E)									
5	Т	1599	1.3	0.584	2.0	LOS A	5.7	40.3	0.13	0.12	56.1
6	R	86	3.7	0.457	30.0	LOS C	3.4	24.5	0.69	0.79	31.9
Approac	ch	1685	1.4	0.584	3.4	LOS A	5.7	40.3	0.16	0.16	54.1
North: N	Monash I	Road (N)									
7	L	97	1.1	0.733	57.2	LOS E	15.5	108.9	0.99	0.87	21.8
9	R	436	0.2	0.733	58.0	LOS E	15.5	108.9	1.00	0.87	21.7
Approac	ch	533	0.4	0.733	57.9	LOS E	15.5	108.9	0.99	0.87	21.7
West: V	ictoria F	load (W)									
10	L	448	0.2	0.733	15.3	LOS B	19.6	137.8	0.45	0.90	41.9
11	Т	2147	1.1	0.733	9.4	LOS A	23.2	164.0	0.50	0.46	45.7
Approac	ch	2596	0.9	0.733	10.4	LOS A	23.2	164.0	0.49	0.54	45.0
All Vehic	cles	4814	1.0	0.733	13.2	LOS A	23.2	164.0	0.43	0.44	42.5

#### **MOVEMENT SUMMARY**

Site: Victoria Road / Monash Road 2023 Existing With Dev PM

Victoria Road / Monash Road 2023 Existing Existing With Development PM
Signals - Fixed Time Cycle Time = 125 seconds (Optimum Cycle Time - Minimum Delay)

Mov ID	Turn	Demand	HV	Deg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec		veh			per veh	km/h
East: Vi	ctoria R	oad (E)								"	
5	Т	2175	1.3	0.772	2.4	LOS A	12.2	86.3	0.20	0.19	55.3
6	R	208	1.5	0.796	54.0	LOS D	12.5	88.5	0.94	1.03	23.3
Approac	ch	2383	1.3	0.796	6.9	LOS A	12.5	88.5	0.27	0.27	49.6
North: N	Monash I	Road (N)									
7	L	137	0.8	0.787	63.0	LOS E	17.2	120.7	1.00	0.90	20.6
9	R	398	0.3	0.787	64.0	LOS E	17.2	120.7	1.00	0.90	20.5
Approac	ch	535	0.4	0.787	63.7	LOS E	17.2	120.7	1.00	0.90	20.5
West: V	ictoria F	load (W)									
10	L	584	0.2	0.804	15.7	LOS B	25.4	178.6	0.51	0.90	41.4
11	Т	2266	1.1	0.804	10.6	LOS A	30.9	218.0	0.58	0.54	44.3
Approac	ch	2851	0.9	0.804	11.6	LOS A	30.9	218.0	0.57	0.62	43.7
All Vehi	cles	5768	1.0	0.804	14.5	LOS A	30.9	218.0	0.48	0.50	41.4

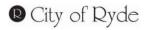
#### **MOVEMENT SUMMARY**

Site: Victoria Road / Monash Road 2013 Existing With Dev With Closure AM

Victoria Road / Monash Road 2013 Existing With Development With Eltham St Closure AM Signals - Fixed Time Cycle Time = 120 seconds (Optimum Cycle Time - Minimum Delay)

Mov ID		Demand	HV	Deg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec		veh			per veh	km/f
East: Vi	ctoria R	oad (E)									
5	Т	1440	1.3	0.520	1.6	LOS A	4.1	28.8	0.11	0.10	56.8
6	R	80	3.9	0.419	23.4	LOS B	2.5	18.4	0.56	0.76	35.4
Approac	ch	1520	1.5	0.520	2.8	LOS A	4.1	28.8	0.13	0.13	55.2

Page 14 of 43 Lifestyle and opportunity @ your doorstep



#### **ATTACHMENT 1**

#### PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

7	L	76	1.4	0.620	55.2	LOS D	12.0	84.2	0.97	0.83	22.3
9	R	355	0.3	0.620	56.0	LOS D	12.0	84.2	0.97	0.83	22.1
Approa	ch	431	0.5	0.620	55.9	LOS D	12.0	84.2	0.97	0.83	22.1
West: \	/ictoria Ro	oad (W)									
10	L	359	0.3	0.656	14.5	LOS B	15.0	105.7	0.38	0.90	42.5
11	Т	1991	1.1	0.656	8.1	LOS A	17.4	122.8	0.41	0.38	47.4
Approa	ch	2349	0.9	0.656	9.1	LOS A	17.4	122.8	0.41	0.46	46.6
All Veh	icles	4300	1.1	0.656	11.5	LOS A	17.4	122.8	0.37	0.38	44.1

#### **MOVEMENT SUMMARY**

Site: Victoria Road / Monash Road 2013 Existing With Dev With Closure PM

Victoria Road / Monash Road 2013 Existing Existing With Development With Eltham St Closure PM Signals - Fixed Time 

Cycle Time = 120 seconds (Optimum Cycle Time - Minimum Delay)

Mov ID		Demand	HV	Deg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec		veh			per veh	km/h
East: Vi	ctoria R	oad (E)									
5	Т	1955	1.3	0.705	2.1	LOS A	8.5	60.1	0.17	0.15	55.9
6	R	116	2.7	0.565	28.8	LOS C	4.8	34.7	0.73	0.81	32.5
Approac	h	2071	1.4	0.705	3.6	LOS A	8.5	60.1	0.20	0.19	53.8
North: N	lonash l	Road (N)									
7	L	124	0.8	0.691	56.4	LOS D	14.1	99.4	0.98	0.85	22.0
9	R	364	0.3	0.691	57.4	LOS E	14.1	99.4	0.99	0.85	21.8
Approac	h	488	0.4	0.691	57.2	LOS E	14.1	99.4	0.99	0.85	21.8
West: Vi	ctoria R	load (W)									
10	L	465	0.2	0.696	14.1	LOS A	16.2	113.8	0.39	0.88	42.7
11	Т	2034	1.1	0.696	8.4	LOS A	19.9	140.6	0.44	0.41	47.0
Approac	h	2499	0.9	0.696	9.4	LOS A	19.9	140.6	0.43	0.50	46.1
All Vehic	cles	5058	1.1	0.705	11.6	LOS A	19.9	140.6	0.39	0.41	44.0

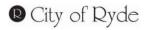
#### **MOVEMENT SUMMARY**

Site: Victoria Road / Monash Road 2023 Existing With Dev With Closure AM

Victoria Road / Monash Road 2023 Existing With Development With Eltham St Closure AM Signals - Fixed Time Cycle Time = 120 seconds (Optimum Cycle Time - Minimum Delay)

Movem	ent Pe	erformance	- Vehi	cles							
Mov ID		Demand	HV	Deg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec					per veh	km/h
East: Vio	ctoria Re	oad (E)									
5	Т	1621	1.3	0.585	1.8	LOS A	5.2	37.0	0.12	0.11	56.6
6	R	73	4.3	0.393	27.0	LOS B	2.5	18.4	0.61	0.77	33.4
Approac	h	1694	1.4	0.585	2.9	LOS A	5.2	37.0	0.14	0.14	55.0
North: N	lonash l	Road (N)									
7	L	85	1.2	0.688	56.5	LOS D	13.6	95.8	0.98	0.85	22.0
9	R	393	0.3	0.688	57.3	LOS E	13.6	95.8	0.99	0.85	21.8
Approac	h	478	0.4	0.688	57.2	LOS E	13.6	95.8	0.99	0.85	21.8
West: Vi	ctoria R	load (W)									
10	L	404	0.3	0.724	15.1	LOS B	19.2	135.1	0.44	0.91	42.1
11	Т	2192	1.1	0.724	8.7	LOS A	21.9	154.7	0.47	0.44	46.5
Approac	h	2596	0.9	0.724	9.7	LOS A	21.9	154.7	0.46	0.51	45.8
All Vehic	cles	4767	1.1	0.724	12.0	LOS A	21.9	154.7	0.40	0.41	43.6

Page 15 of 43



### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2)

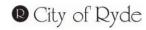
#### **MOVEMENT SUMMARY**

Site: Victoria Road / Monash Road 2023 Existing With Dev With Closure PM

Victoria Road / Monash Road 2023 Existing Existing With Development With Eltham St Closure PM Signals - Fixed Time 
Cycle Time = 125 seconds (Optimum Cycle Time - Minimum Delay)

Mov ID		Demand	HV	Deg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec		veh			per veh	km/h
East: Vid	ctoria R	oad (E)									
5	Т	2197	1.2	0.780	2.4	LOS A	12.7	89.6	0.21	0.20	55.2
6	R	196	1.6	0.791	52.1	LOS D	11.7	83.3	0.93	1.01	23.8
Approac	h	2393	1.3	0.791	6.4	LOS A	12.7	89.6	0.27	0.26	50.1
North: N	Ionash I	Road (N)									
7	L	133	0.8	0.782	62.8	LOS E	16.9	119.1	1.00	0.89	20.7
9	R	398	0.3	0.782	63.7	LOS E	16.9	119.1	1.00	0.89	20.5
Approac	h	531	0.4	0.782	63.5	LOS E	16.9	119.1	1.00	0.89	20.5
West: V	ictoria R	load (W)									
10	L	545	0.2	0.794	15.5	LOS B	24.8	174.2	0.50	0.90	41.7
11	Т	2304	1.1	0.794	9.8	LOS A	29.2	206.2	0.55	0.52	45.1
Approac	h	2849	0.9	0.794	10.9	LOS A	29.2	206.2	0.54	0.59	44.4
All Vehic	cles	5773	1.0	0.794	13.9	LOS A	29.2	206.2	0.47	0.48	41.9

Page 16 of 43 Lifestyle and opportunity @ your doorstep



#### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

Monash Road/Eltham Street/College Street Stop sign controlled intersection

#### **MOVEMENT SUMMARY**

Site: Monash Road / Eltham Street 2013 Existing AM

Monash Road / Eltham Street 2013 Existing AM Stop (Two-Way)

No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street,		erformance									
Mov ID	Turn	Demand	HV	Deg. Satn	Average	Level of	95% Back		Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec		veh			per veh	km/h
South: N	<b>Monash</b>	Road (S)									
1	L	43	0.0	0.050	6.4	LOS A	0.0	0.0	0.00	0.75	43.3
2	Т	420	0.8	0.249	2.5	LOS A	1.9	13.6	0.44	0.00	44.7
3	R	54	0.0	0.249	9.3	LOS A	1.9	13.6	0.50	0.87	42.0
Approac	h	517	0.6	0.249	3.5	LOS A	1.9	13.6	0.41	0.15	44.3
East: Elf	ham St	reet (E)									
4	L	53	0.0	0.112	11.8	LOS A	0.3	1.8	0.46	0.92	39.6
5	Т	20	0.0	0.124	26.9	LOS B	0.4	3.0	0.81	1.00	31.1
6	R	5	0.0	0.124	26.7	LOS B	0.4	3.0	0.81	1.00	31.2
Approac	:h	78	0.0	0.124	16.7	LOS B	0.4	3.0	0.58	0.94	36.4
North: N	Ionash I	Road (N)									
7	L	36	0.0	0.163	6.4	LOS A	0.0	0.0	0.00	0.87	43.3
8	Т	421	0.5	0.163	0.7	LOS A	1.1	7.7	0.17	0.00	47.7
9	R	87	0.0	0.163	8.7	LOS A	1.1	7.7	0.50	0.79	42.1
Approac	:h	544	0.4	0.163	2.4	LOS A	1.1	7.7	0.21	0.18	46.4
West: C	ollege S	Street (W)									
10	L	106	0.0	0.222	11.6	LOS A	0.5	3.7	0.45	0.91	39.8
11	Т	16	0.0	0.121	27.1	LOS B	0.4	2.9	0.81	1.00	31.0
12	R	8	0.0	0.121	26.9	LOS B	0.4	2.9	0.81	1.00	31.1
Approac	:h	131	0.0	0.222	14.4	LOS B	0.5	3.7	0.52	0.93	37.8
All Vehic	cles	1269	0.4	0.249	5.0	NA	1.9	13.6	0.34	0.29	43.8
MOV	/ERAI	ENT CH	RABA	ARV				Site	Monas	h Road /	Eltham

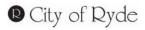
#### MOVEMENT SUMMARY

Site: Monash Road / Eltham Street 2013 Existing PM

Monash Road / Eltham Street 2013 Existing PM Stop (Two-Way)

Mov ID	Turn	Demand	HV	Deg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec		veh			per veh	km/h
South: N	lonash	Road (S)									
1	L	31	0.0	0.058	6.4	LOS A	0.0	0.0	0.00	0.81	43.3
2	Т	542	0.6	0.289	2.6	LOS A	2.5	17.4	0.45	0.00	44.6
3	R	46	0.0	0.289	9.5	LOS A	2.5	17.4	0.53	0.89	42.0
Approac	h	619	0.5	0.289	3.3	LOS A	2.5	17.4	0.44	0.11	44.3
East: Elf	ham Sti	eet (E)									
4	L	75	0.0	0.158	11.9	LOS A	0.4	2.5	0.47	0.93	39.6
5	Т	20	0.0	0.157	30.4	LOS C	0.5	3.7	0.85	1.00	29.6
6	R	7	0.0	0.157	30.2	LOS C	0.5	3.7	0.85	1.00	29.6
Approac	h	102	0.0	0.158	16.8	LOS C	0.5	3.7	0.57	0.95	36.3
North: N	lonash l	Road (N)									
7	L	49	0.0	0.160	6.4	LOS A	0.0	0.0	0.00	0.85	43.3
8	Т	412	0.5	0.160	1.1	LOS A	1.2	8.2	0.20	0.00	47.2
9	R	72	0.0	0.160	9.4	LOS A	1.2	8.2	0.55	0.84	41.7
Approac	h	533	0.4	0.160	2.7	LOS A	1.2	8.2	0.23	0.19	46.0
West: C	ollege S	treet (W)									
10	L	96	0.0	0.215	12.4	LOS A	0.5	3.6	0.51	0.94	39.3

Page 17 of 43



#### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

Т	20	0.0	0.179	31.2	LOS C	0.6	4.2	0.85	1.00	29.2
R	11	0.0	0.179	31.1	LOS C	0.6	4.2	0.85	1.01	29.3
ch	126	0.0	0.215	16.9	LOS C	0.6	4.2	0.59	0.96	36.3
cles	1380	0.4	0.289	5.3	NA	2.5	17.4	0.38	0.28	43.4
		R 11	R 11 0.0 ch 126 0.0	R 11 0.0 0.179 ch 126 0.0 0.215	R 11 0.0 0.179 31.1 ch 126 0.0 0.215 16.9	R 11 0.0 0.179 31.1 LOS C ch 126 0.0 0.215 16.9 LOS C	R 11 0.0 0.179 31.1 LOS C 0.6 ch 126 0.0 0.215 16.9 LOS C 0.6	R 11 0.0 0.179 31.1 LOS C 0.6 4.2 ch 126 0.0 0.215 16.9 LOS C 0.6 4.2	R 11 0.0 0.179 31.1 LOS C 0.6 4.2 0.85 ch 126 0.0 0.215 16.9 LOS C 0.6 4.2 0.59	R 11 0.0 0.179 31.1 LOS C 0.6 4.2 0.85 1.01 ch 126 0.0 0.215 16.9 LOS C 0.6 4.2 0.59 0.96

#### **MOVEMENT SUMMARY**

Site: Monash Road / Eltham Street 2013 Existing With Dev

AM

Monash Road / Eltham Street 2013 Existing Existing With Development AM Stop (Two-Way)

Mov ID		Demand	HV	Deg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec		veh			per veh	km/h
South: N	/lonash	Road (S)									
1	L	43	0.0	0.050	6.4	LOS A	0.0	0.0	0.00	0.75	43.3
2	Т	420	8.0	0.252	2.5	LOS A	2.0	13.8	0.44	0.00	44.7
3	R	57	0.0	0.252	9.3	LOS A	2.0	13.8	0.50	0.87	42.0
Approac	h	520	0.6	0.252	3.6	NA	2.0	13.8	0.41	0.16	44.3
East: Elf	ham Sti	reet (E)									
4	L	63	0.0	0.134	11.9	LOS A	0.3	2.1	0.47	0.92	39.6
5	Т	20	0.0	0.146	27.8	LOS B	0.5	3.5	0.82	1.00	30.7
6	R	8	0.0	0.146	27.7	LOS B	0.5	3.5	0.82	1.00	30.7
Approac	:h	92	0.0	0.146	16.8	LOS B	0.5	3.5	0.58	0.95	36.3
North: N	Ionash I	Road (N)									
7	L	37	0.0	0.163	6.4	LOS A	0.0	0.0	0.00	0.87	43.3
8	Т	421	0.5	0.163	0.7	LOS A	1.1	7.7	0.17	0.00	47.7
9	R	87	0.0	0.163	8.7	LOS A	1.1	7.7	0.50	0.79	42.1
Approac	:h	545	0.4	0.163	2.4	NA	1.1	7.7	0.21	0.19	46.4
West: C	ollege S	Street (W)									
10	L	106	0.0	0.222	11.6	LOS A	0.5	3.7	0.45	0.91	39.8
11	Т	16	0.0	0.123	27.4	LOS B	0.4	2.9	0.82	1.00	30.9
12	R	8	0.0	0.123	27.2	LOS B	0.4	2.9	0.82	1.00	30.9
Approac	:h	131	0.0	0.222	14.5	LOS B	0.5	3.7	0.52	0.93	37.8
All Vehic	cles	1287	0.4	0.252	5.1	NA	2.0	13.8	0.35	0.30	43.7

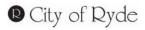
#### **MOVEMENT SUMMARY**

Site: Monash Road / Eltham Street 2013 Existing With Dev PM

Monash Road / Eltham Street 2013 Existing Existing With Development PM Stop (Two-Way)

Mov ID		Demand	HV	Deg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec					per veh	
South: N	/lonash	Road (S)									
1	L	31	0.0	0.069	6.4	LOS A	0.0	0.0	0.00	0.82	43.3
2	Т	542	0.6	0.344	3.0	LOS A	3.3	23.2	0.48	0.00	44.1
3	R	103	0.0	0.344	10.2	LOS A	3.3	23.2	0.60	0.93	41.4
Approac	h	676	0.5	0.344	4.3	NA	3.3	23.2	0.48	0.18	43.6
East: El	tham St	reet (E)									
4	L	123	0.0	0.262	12.2	LOS A	0.6	4.5	0.49	0.95	39.4
5	Т	20	0.0	0.315	41.2	LOS C	1.1	7.9	0.90	1.04	25.7
6	R	23	0.0	0.315	41.0	LOS C	1.1	7.9	0.90	1.04	25.7
Approac	h	166	0.0	0.315	19.7	LOS B	1.1	7.9	0.60	0.98	34.6
North: N	lonash	Road (N)									
			-								

Page 18 of 43



0.83

0.00

0.84

0.21

0.94

1.01

1.02

0.96

0.34

43.3

47.1

41.8

45.8

39.3

27.3

27.3 35.5

42.3

# ITEM 5 (continued)

### **ATTACHMENT 1**

MON		AD (inco		ENT REPO		R i) – TMOP	(Rev 2)		
7	L	68	0.0	0.165	6.4	LOS A	0.0	0.0	0.00
8	Т	412	0.5	0.165	1.1	LOS A	1.2	8.6	0.22
9	R	72	0.0	0.165	9.4	LOS A	1.2	8.6	0.55
Approa	ich	552	0.4	0.165	2.9	NA	1.2	8.6	0.23

12.4

36.4

36.2

18.2

6.6

LOS A

LOS C

LOS C

LOS B

0.7

0.7

0.7

3.3

#### **MOVEMENT SUMMARY**

20

11

126

1520

West: College Street (W)

11

12

Approach

All Vehicles

Site: Monash Road / Eltham Street 2023 Existing With Dev AM

0.51

0.88

0.88

0.60

0.41

5.0

5.0 5.0

23.2

Monash Road / Eltham Street 2023 Existing Existing With Development AM Stop (Two-Way)

0.215

0.210

0.210

0.215

0.344

0.0

0.0

0.0

0.0

Mov ID		Demand	HV D	eg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec		veh			per veh	km/h
South: N	/lonash	Road (S)								770	
1	L	34	0.0	0.062	6.4	LOS A	0.0	0.0	0.00	0.80	43.3
2	Т	492	0.6	0.309	3.1	LOS A	2.8	19.6	0.49	0.00	44.0
3	R	84	0.0	0.309	10.2	LOS A	2.8	19.6	0.60	0.92	41.4
Approac	h	609	0.5	0.309	4.3	NA	2.8	19.6	0.48	0.17	43.6
East: Elf	tham St	reet (E)									
4	L	68	0.0	0.151	12.3	LOS A	0.4	2.5	0.49	0.94	39.3
5	Т	22	0.0	0.211	35.5	LOS C	0.7	5.0	0.87	1.02	27.6
6	R	9	0.0	0.211	35.3	LOS C	0.7	5.0	0.87	1.02	27.6
Approac	h	100	0.0	0.211	19.6	LOS B	0.7	5.0	0.61	0.96	34.7
North: N	Ionash I	Road (N)									
7	L	42	0.0	0.177	6.4	LOS A	0.0	0.0	0.00	0.86	43.3
8	Т	469	0.4	0.177	0.9	LOS A	1.3	9.0	0.20	0.00	47.3
9	R	81	0.0	0.177	9.2	LOS A	1.3	9.0	0.54	0.83	41.9
Approac	h	593	0.4	0.177	2.5	NA	1.3	9.0	0.23	0.17	46.2
West: C	ollege S	treet (W)									
10	L	121	0.0	0.263	12.1	LOS A	0.6	4.5	0.49	0.93	39.5
11	Т	20	0.0	0.199	34.5	LOS C	0.7	4.7	0.87	1.01	28.0
12	R	11	0.0	0.199	34.3	LOS C	0.7	4.7	0.87	1.01	28.0
Approac	h	152	0.0	0.263	16.6	LOS B	0.7	4.7	0.57	0.95	36.5
All Vehic		1454	0.4	0.309	5.9	NA	2.8	19.6	0.40	0.31	43.0

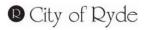
#### **MOVEMENT SUMMARY**

Site: Monash Road / Eltham Street 2023 Existing With Dev PM

Monash Road / Eltham Street 2023 Existing Existing With Development PM Stop (Two-Way)

Mov ID		Demand	HV	Deg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec		veh			per veh	km/h
South: N	Monash	Road (S)									
1	L	41	0.0	0.078	6.4	LOS A	0.0	0.0	0.00	0.81	43.3
2	Т	604	0.5	0.392	4.0	LOS A	4.5	31.6	0.58	0.00	43.1
3	R	114	0.0	0.392	11.3	LOS A	4.5	31.6	0.71	1.01	40.7
Approac	ch	759	0.4	0.392	5.2	NA	4.5	31.6	0.57	0.19	42.8
East: El	tham St	reet (E)									
4	L	131	0.0	0.287	12.8	LOS A	0.8	5.3	0.52	0.99	39.0
5	Т	24	0.0	0.483	61.6	LOS E	1.8	12.4	0.94	1.08	20.5

Page 19 of 43



#### **ATTACHMENT 1**

#### PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

6	R	24	0.0	0.483	61.4	LOS E	1.8	12.4	0.94	1.08	20.5
Approa	ch	179	0.0	0.483	26.0	LOS B	1.8	12.4	0.64	1.01	31.3
North: I	Monash F	Road (N)									
7	L	81	0.0	0.201	6.4	LOS A	0.0	0.0	0.00	0.83	43.3
8	Т	454	0.5	0.201	1.2	LOS A	1.4	10.1	0.19	0.00	47.3
9	R	101	0.0	0.201	10.1	LOS A	1.4	10.1	0.59	0.86	41.1
Approa	ch	636	0.3	0.201	3.2	NA	1.4	10.1	0.23	0.24	45.7
West: C	College St	reet (W)									
10	L	113	0.0	0.263	13.2	LOS A	0.7	4.8	0.54	0.98	38.8
11	Т	22	0.0	0.331	52.0	LOS D	1.1	7.9	0.92	1.04	22.7
12	R	13	0.0	0.331	51.8	LOS D	1.1	7.9	0.92	1.04	22.7
Approa	ch	147	0.0	0.331	22.3	LOS B	1.1	7.9	0.63	0.99	33.2
All Veh	icles	1721	0.3	0.483	8.1	NA	4.5	31.6	0.45	0.37	41.2

#### **MOVEMENT SUMMARY**

Site: Monash Road / Eltham Street 2013 Existing With Dev With Closure AM

Monash Road / Eltham Street 2013 Existing Existing With Development With Eltham St Closure AM Stop (Two-Way)

Movem	ent Pe	erformance	- Vehic	les							
Mov ID		Demand Flow		eg. Satn	Average Delay	Level of Service	95% Back Vehicles	of Queue Distance	Prop. Queued	Effective Stop Rate	Average Speed
		veh/h		v/c	sec		veh			per veh	km/h
South: N	1onash	Road (S)									
1	L	43	0.0	0.041	6.4	LOS A	0.0	0.0	0.00	0.71	43.3
2	Т	420	0.8	0.203	2.2	LOS A	1.6	11.4	0.42	0.00	45.0
3	R	3	0.0	0.203	8.8	LOS A	1.6	11.4	0.46	0.88	42.5
Approac	h	466	0.7	0.203	2.6	NA	1.6	11.4	0.38	0.07	44.9
East: Elt	ham St	reet (E)									
4	L	14	0.0	0.029	11.5	LOS A	0.1	0.4	0.44	0.87	39.8
5	Т	1	0.0	0.023	27.4	LOS B	0.1	0.5	0.80	0.96	30.8
6	R	3	0.0	0.023	27.3	LOS B	0.1	0.5	0.80	1.00	30.9
Approac	h	18	0.0	0.029	15.2	LOS B	0.1	0.5	0.53	0.90	37.3
North: M	lonash l	Road (N)									
7	L	1	0.0	0.154	6.4	LOS A	0.0	0.0	0.00	0.92	43.3
8	Т	421	0.5	0.154	0.6	LOS A	1.0	7.0	0.14	0.00	48.0
9	R	87	0.0	0.154	8.7	LOS A	1.0	7.0	0.49	0.79	42.1
Approac	h	509	0.4	0.154	2.0	NA	1.0	7.0	0.20	0.14	46.8
West: Co	ollege S	Street (W)									
10	L	122	0.0	0.255	11.6	LOS A	0.6	4.2	0.46	0.92	39.8
11	Т	1	0.0	0.046	25.3	LOS B	0.2	1.1	0.78	1.00	31.8
12	R	8	0.0	0.046	25.2	LOS B	0.2	1.1	0.78	1.00	31.8
Approac	h	132	0.0	0.255	12.6	LOS A	0.6	4.2	0.48	0.92	39.1
All Vehic	cles	1125	0.5	0.255	3.7	NA	1.6	11.4	0.32	0.21	44.8

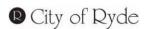
#### **MOVEMENT SUMMARY**

Site: Monash Road / Eltham Street 2013 Existing With Dev With Closure PM

Monash Road / Eltham Street 2013 Existing Existing With Development With Eltham St Closure PM Stop (Two-Way)

Mov ID		Demand	HV	Deg. Satn	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
		Flow			Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h			sec		veh			per veh	km/h
South: N	/lonash	Road (S)									
1	L	31	0.0	0.060	6.4	LOS A	0.0	0.0	0.00	0.81	43.3
2	Т	543	0.8	0.298	2.4	LOS A	2.5	17.4	0.43	0.00	44.9
3	R	57	0.0	0.298	9.3	LOS A	2.5	17.4	0.51	0.88	42.1
Approac	:h	631	0.7	0.298	3.2	NA	2.5	17.4	0.41	0.12	44.5

Page 20 of 43



10

11

12

Approach

All Vehicles

West: College Street (W)

#### **ATTACHMENT 1**

27.3 27.4

36.3

43.3 47.5 41.7

46.4

39.2

28.5 28.5 37.9

43.9

0.95

1.00

1.00

0.96

0.26

MONA		AD (inco		ENT REPO		R ) – TMOP	(Rev 2)			
4	L	65	0.0	0.137	11.7	LOS A	0.3	2.2	0.46	0.92
5	Т	1	0.0	0.126	36.2	LOS C	0.4	2.8	0.87	1.00
6	R	16	0.0	0.126	36.0	LOSC	0.4	2.8	0.87	1.00
Approa	ch	82	0.0	0.137	16.7	LOS B	0.4	2.8	0.54	0.93
North: I	Monash R	oad (N)								
7	L	19	0.0	0.152	6.4	LOS A	0.0	0.0	0.00	0.89
8	Т	412	0.5	0.152	0.9	LOS A	1.1	7.5	0.18	0.00
9	R	72	0.0	0.152	9.4	LOS A	1.1	7.5	0.54	0.83
Approa	ch	502	0.4	0.152	2.3	NA	1.1	7.5	0.22	0.15

33.0

32.8

14.4

4.8

LOS A

LOS C

LOS C

LOS A

#### **MOVEMENT SUMMARY**

116

127

1342

0.0

0.0

0.5

0.078

0.078

0.259

0.298

Site: Monash Road / Eltham Street 2023 Existing With Dev With Closure AM

0.52

0.85

0.85

0.55

0.36

1.7

1.7

4.5

17.4

0.6

0.2

0.2

0.6

2.5

Monash Road / Eltham Street 2023 Existing Existing With Development With Eltham St Closure AM Stop (Two-Way)

		erformance									
Mov ID	Turn	Demand Flow	HV	Deg. Satn	Average Delay	Level of Service	95% Back Vehicles	of Queue Distance	Prop. Queued	Effective Stop Rate	Average Speed
		veh/h			sec					per veh	
South: N	Monash	Road (S)									
1	L	34	0.0	0.048	6.4	LOS A	0.0	0.0	0.00	0.77	43.3
2	Т	514	0.6	0.238	2.6	LOS A	2.1	14.7	0.45	0.00	44.8
3	R	3	0.0	0.238	9.3	LOS A	2.1	14.7	0.50	0.91	42.2
Approac	ch	551	0.6	0.238	2.9	NA	2.1	14.7	0.42	0.05	44.7
East: El	tham St	reet (E)									
4	L	14	0.0	0.030	11.9	LOS A	0.1	0.5	0.46	0.88	39.6
5	Т	1	0.0	0.030	33.9	LOS C	0.1	0.7	0.85	1.00	28.2
6	R	3	0.0	0.030	33.7	LOS C	0.1	0.7	0.85	1.00	28.2
Approac	ch	18	0.0	0.030	17.0	LOS B	0.1	0.7	0.56	0.91	36.2
North: N	Monash	Road (N)									
7	L	1	0.0	0.166	6.4	LOS A	0.0	0.0	0.00	0.92	43.3
8	Т	469	0.4	0.166	0.8	LOS A	1.2	8.2	0.17	0.00	47.7
9	R	81	0.0	0.166	9.3	LOS A	1.2	8.2	0.54	0.83	41.8
Approac	ch	552	0.4	0.166	2.1	NA	1.2	8.2	0.22	0.12	46.7
West: C	ollege S	Street (W)									
10	L	141	0.0	0.310	12.7	LOS A	0.8	5.9	0.51	0.97	39.1
11	Т	1	0.0	0.071	30.5	LOS C	0.2	1.6	0.83	1.00	29.5
12	R	11	0.0	0.071	30.3	LOS C	0.2	1.6	0.83	1.00	29.6
Approac	ch	153	0.0	0.310	14.0	LOS A	0.8	5.9	0.54	0.97	38.2
All Vehic		1273	0.4	0.310	4.1	NA	2.1	14.7	0.35	0.21	44.5

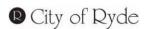
### **MOVEMENT SUMMARY**

Site: Monash Road / Eltham Street 2023 Existing With Dev With Closure PM

Monash Road / Eltham Street 2023 Existing Existing With Development With Eltham St Closure PM Stop (Two-Way)

wover	nent Pe	erformance	- venic	ies							
Mov ID		Demand Flow	HV D	eg. Satn	Average Delay	Level of Service	95% Back Vehicles	of Queue Distance	Prop. Queued	Effective Stop Rate	Average Speed
		veh/h			sec		veh			per veh	km/h
South:	Monash	Road (S)									
1	L	41	0.0	0.067	6.4	LOS A	0.0	0.0	0.00	0.79	43.3
2	Т	611	0.7	0.334	3.1	LOS A	3.3	23.5	0.50	0.00	44.1

Page 21 of 43 Lifestyle and opportunity @ your doorstep



# **ATTACHMENT 1**

PUBL	IC WO	RKS ASS	ESSME	ENT REPO	ORT FOI	R					
MONA	ASH RC	OAD (inco	rporati	ing Elthar	n Street	) - TMOP	(Rev 2)				
COR2	009/20	6									
3	R	57	0.0	0.334	10.0	LOS A	3.3	23.5	0.58	0.93	41.7
Approa	ch	708	0.6	0.334	3.8	NA	3.3	23.5	0.47	0.12	43.9
East: E	Itham Stre	eet (E)									
4	L	65	0.0	0.141	12.1	LOS A	0.3	2.3	0.48	0.93	39.5
5	Т	1	0.0	0.175	48.0	LOS D	0.5	3.8	0.91	1.00	23.7
6	R	16	0.0	0.175	47.8	LOS D	0.5	3.8	0.91	1.01	23.7
Approa	ch	82	0.0	0.175	19.4	LOS B	0.5	3.8	0.57	0.95	34.7
North: N	Monash F	Road (N)									
7	L	19	0.0	0.186	6.4	LOS A	0.0	0.0	0.00	0.90	43.3
8	Т	454	0.5	0.186	0.9	LOS A	1.2	8.6	0.14	0.00	48.0
9	R	103	0.0	0.186	10.0	LOS A	1.2	8.6	0.57	0.85	41.0
Approa	ch	576	0.4	0.186	2.7	NA	1.2	8.6	0.21	0.18	46.4
West: C	College St	treet (W)									
10	L	136	0.0	0.318	13.7	LOS A	0.9	6.4	0.56	1.01	38.4
11	Т	1	0.0	0.124	41.7	LOS C	0.4	2.7	0.89	1.00	25.5
12	R	13	0.0	0.124	41.5	LOS C	0.4	2.7	0.89	1.00	25.5
Approa	ch	149	0.0	0.318	16.2	LOS B	0.9	6.4	0.59	1.01	36.7
All Vehi	icles	1516	0.4	0.334	5.4	NA	3.3	23.5	0.39	0.28	43.3

Page 22 of 43 Lifestyle and opportunity @ your doorstep



# **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

#### 8.2 Treatment Diagrams (Traffic Facilities)

#### 8.2.1 Speed Humps - Eltham Street



Indicative locations of speed humps some 80m apart

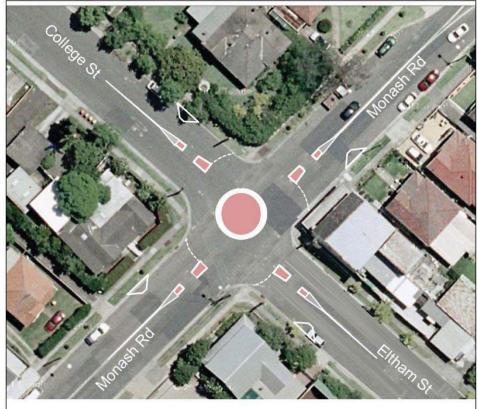


Indicative location of road closure in Eltham Street

# **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

#### 8.2.2 Roundabout - Eltham Street/College Street/Monash Road



Note: Indicative roundabout design (the centre lines of College Street and Eltham Street are not aligned)

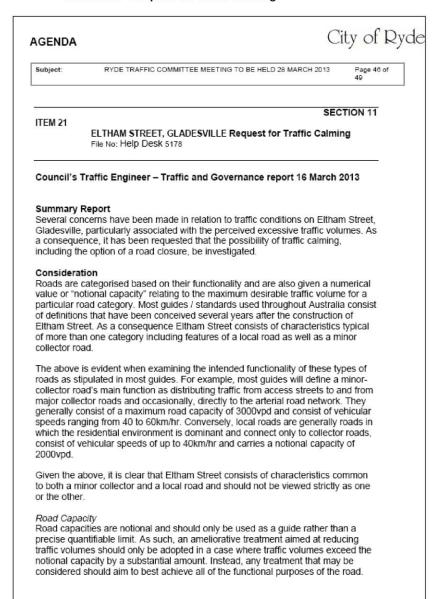
Page 24 of 43 Lifestyle and opportunity @ your doorstep



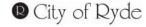
#### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

8.3 Ryde Local Traffic Committee Report (March 28 meeting) titled "Eltham Street, Gladesville – Request for Traffic Calming"



Page 25 of 43



#### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

#### **AGENDA**

City of Ryde

Subject:

RYDE TRAFFIC COMMITTEE MEETING TO BE HELD 28 MARCH 2013

Page 47 of

A traffic survey has been undertaken for the week commencing Monday 18<sup>th</sup> March 2013. The survey for Eltham Street providing details of the traffic volumes will be tabled at the Traffic Committee for discussion.

The volumes obtained via the survey are anticipated to change given the current number of proposed developments as well as recently approved developments within relatively close proximity of Eitham Street. In addition, the street's minor-collector characteristics suggest that it may be subject to an incremental growth rate associated with the natural growth of the area rather than only as a result of future development solely on Eitham Street.

In light of the above, traffic conditions along Eltham Street should continue to be monitored over time.

#### Vehicular Speeds

It is desirable for local roads to consist of vehicular speed limits of 40km/hr. This is more common for more recently developed areas in which local roads are designed to be narrower and consist of more curves in the road such that higher traffic speeds are more difficult to achieve. However, the vast majority of roads throughout Sydney including the Ryde and Gladesville area, roads were constructed to consist of a much greater width and include long stretches of straight road. Roads such as this, including Eltham Street, often serve more than the purpose of providing access to residents and limiting traffic volumes to 40km/hr is impractical. Furthermore, vehicular speeds throughout the vast majority of local roads in Sydney are generally limited to 50km/hr. As such, a velocity of 50km/hr is considered to be a reasonable vehicular limit to suit the Eltham Street's functions as both a local road and a minor-collector road. The need for an ameliorative treatment as well as the type of treatment should be determined accordingly.

The survey for Eltham Street providing details of the vehicular speeds will be tabled at the Traffic Committee for discussion.

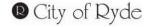
#### Road Safety along Eltham Street

Excessive speeds are generally an indicator of road safety concerns. It should be noted that the crash history on Eltham Street between Monash Road and Westminster Road indicates that there has been only one collision between 2003 and 2012. The collision involved one vehicle colliding with the rear of another in 2008. The collision history does not indicate that the road environment is conducive to excessive speeds or of an unsafe environment.

#### COUNCIL PROPOSAL

- (a) That Council notes the information contained within this report; and
- (b) That vehicular speed, traffic volumes and safety conditions on Eitham Street be monitored.

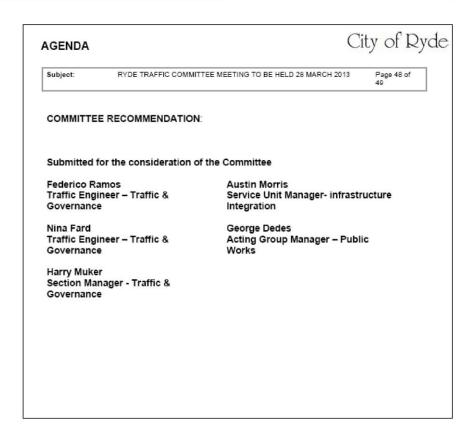
Page 26 of 43

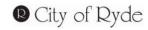




### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206





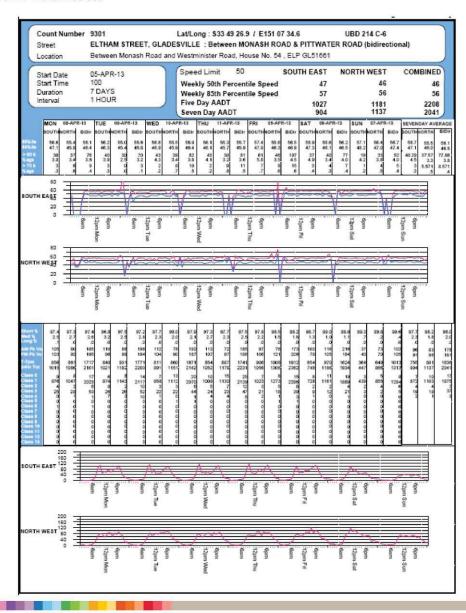
### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

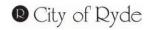
#### 9 OTHER

#### 9.1 Automatic Tube Counts

#### 9.1.1 Eltham Street



Page 28 of 43 Lifestyle and opportunity @ your doorstep



# **ATTACHMENT 1**

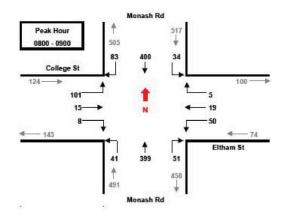
PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

#### 9.2 Intersection Turning Counts (Eltham Street/Monash Road/College Street)



All Vehicles	NORTHBOUND Monash Rd			SOUTHBOUND Monash Rd			EASTBOUND College St			WESTBOUND Eitham St			1	
Time Per	L	1	К	L	- 1	R	L	1	K	L	1	R	101	
0730-0745	3	114	4	6	97	14	29	2	1	17	2	3	292	
0745-0800	8	88	8	8	104	9	20	3	0	5	8	1	262	
0800-0815	9	101	11	7	118	14	22	3	5	13	4	0	307	
0815-0830	9	100	10	7	91	30	25	1	0	11	7	3	294	
0830-0845	13	94	15	10	111	23	26	4	0	17	7	1	321	
0845-0900	10	104	15	10	80	16	28	7	3	9	1	1	284	
AM Totals	52	601	63	48	601	106	150	20	9	12	29	9	176	

	NORTHBOUND Monash Rd			SOUTHBOUND Monash Rd			EASTBOUND College St			WESTBOUND Eitham St			1	
Peak Time	L	T	R	L	T	R	L	T	R	L		R	TOT	
0730-0830	29	403	33	28	410	67	96	9	- 6	46	21	7	1155	
0745-0845	39	383	44	32	424	76	93	11	5	46	26	5	1184	
0800-0900	41	399	51	34	400	83	101	15	- 8	50	19	5	1200	



**AM Counts** 

Page 29 of 43 Lifestyle and opportunity @ your doorstep



# **ATTACHMENT 1**

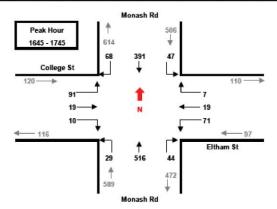
PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

> Client: Ryde City Council Intersection: Eitham 50/College 50/Monash Rd Day/Dafe: Friday 5 April 2013 Description: Intersection Count All Vehicles/15 Minute Data

All Vehicles	NORTHBOUND Monash Rd				SOUTHBOUND Monash Rd			STBOU ollege		WE			
IIme Per	L		R	L		К	L	1	К	L		R	101
1630-1645	7	74	6	14	90	19	9	7	2	16	3	2	249
1645-1700	6	123	- 11	10	122	18	22	3	2	11	4	2	334
1700-1715	10	118	12	14	88	21	17	6	5	26	7	3	327
1715-1730	4	140	15	9	91	11	34	7	3	23	2	1	340
1730-1745	9	135	6	14	90	18	18	3	0	11	6	1	311
1745-1800	- 6	123	8	9	99	12	13	5	3	13	3	3	297
1800-1815	2	105	10	8	70	13	17	7	1	17	11	4	265
1815-1830	1	99	9	11	83	9	4	1	1	19	1	1	239
1830-1845	1	88	10	7	86	2	13	1	3	14	1	3	229
1845-1900	1	82	9	- 6	80	2	11	0	1	12	0	1	205
PM Totals	47	1087	96	102	899	125	158	40	21	162	38	21	2796

	NO	RTHBO	JND	so	DTHRO	JND	EA	STBOU	ND		JND	1		
	Monash Rd			M	Monash Rd			College St			Eitham St			
Peak Time	L	T	R	T	T	R	L	T	R	Г	T	R	TOT	
1630-1730	27	455	44	47	391	69	82	23	12	76	16	8	1250	
1645-1745	29	516	44	47	391	68	91	19	10	71	19	7	1312	
1700-1800	29	516	41	46	368	62	82	21	- 11	73	18	8	1275	
1715-1815	21	503	39	40	350	54	82	22	7	64	22	9	1213	
1730-1830	18	462	33	42	342	52	52	16	5	60	21	9	1112	
1745-1845	10	415	37	35	338	36	47	14	8	63	16	- 11	1030	
1800-1900	5	374	38	32	319	26	45	9	6	62	13	9	938	

Peak Hour 29 516 44 47 391 68 51 19 10 71 19 7 1312



PM Counts

# **ATTACHMENT 1**

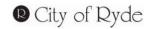
PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

#### 9.3 SCATS Detector Counts

#### 9.3.1 Monash Road / Victoria Road



Note: the hourly breakdown of vehicle volumes collected is summarised on the following page



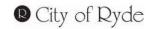
### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

Thursday, 0 approach -												
				4	5	6	7	8	9			
Approach 1	1	2	3	4	5	6	1	8	9			
01:00	6	88	20	5 3	4	140	84	8	13	368		
02:00	10	57	11	3	3	84	53	5	15	241		
03:00	6	66	10	7	4	37	30	5	7	172		
04:00	9	82	17	7 5 4	5 4	48	27	2	6	201		
05:00	18	161	52	4	4	52	38	10	15	354		
06:00	159	389	327	11	10	127	79	39	49	1190		
07:00	409	817	916	21	24	328	307	90	132	3044		
08:00	522	730	782	45	58	663	655	186	198	3839		
09:00	413	588	673	50	84	617	573	197	220	3415		
10:00	362	672	700	44	77	549	550	169	203	3326		
11:00	332	641	680	51	73	463	427	139	187	2993		
12:00	290	601	544	60	90	469	455	141	192	2842		
13:00	288	579	542	57	79	525	518	185	198	2971		
14:00	290	565	515	39	59	576	555	179	206	2984		
15:00	331	508	493	63	102	598	622	166	207	3090		
16:00	374	560	508	61	105	668	682	185	213	3356		
17:00	465	670	661	66	93	719	775	179	215	3843		
18:00	560	757	773	42	86	695	719	207	205	4044		
19:00	510	702	678	50	71	627	653	152	174	3617		
20:00	276	492	416	44	57	586	595	121	144	2731		
21:00	178	354	279	40	43	399	412	89	96	1890		
22:00	125	352	261	33	30	411	386	73	78	1749		
23:00	93	275	166	18	18	362	335	61	65	1393		
24:00	43	158	77	9	9	238	230	19	36	819		
Approach 1	ΔΜ	neak	3839	07.00	) – (	18 • 00	DM r	eak	4066	16.45	- 17:45	Daily
Total 5447		peak	5059	07.00	, el 10	0.00	I II F	Cak	1000	10.40	17.40	Dally

Note: The information contained above is a SCATS output summary of detector counts during hourly intervals







- \* 22% turning left from Monash Road
- \*\*19% turning left from Victoria Road

### **PM Peak**

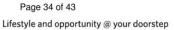


### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

Westminster Road and Victoria Road







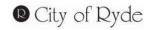
### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

Thursday,											
approach -				12							
Approach 1	1	2	3	4	5	6	7	8			
01:00	2	152	74	6	89	28	2	1	354		
02:00	1	92	41	7	51	15	2	1	208		
03:00	1	48	20	1	66	15	0	1	152		
04:00	0	56	19	2	80	27	2	2	188		
05:00	1	57	34	8	146	87	2 2 2	1	336		
06:00	1	137	79	71	393	331	2	5	1019		
07:00	15	330	308	166	830	881	9	20	2559		
08:00	48	653	660	204	725	728	10	49	3077		
09:00	54	558	592	112	615	696	35	79	2741		
10:00	13	553	590	124	696	742	14	55	2787		
11:00	16	458	465	89	685	711	7	36	2467		
12:00	14	481	503	22	636	655	8	37	2356		
13:00	11	529	555	82	623	618	12	43	2473		
14:00	19	594	585	89	621	554	16	49	2527		
15:00	33	600	678	113	589	533	14	44	2604		
16:00	32	694	729	135	591	522	23	82	2808		
17:00	40	737	782	153	681	715	19	50	3177		
18:00	38	693	731	214	769	821	8	70	3344		
19:00	26	617	668	159	726	719	14	55	2984		
20:00	41	548	615	85	534	440	7	35	2305		
21:00	18	390	405	67	362	302	4	21	1569		
22:00	6	418	406	57	381	284	5	18	1575		
23:00	13	392	318	36	274	182	5	12	1232		
24:00	2	249	219	25	174	86	2	6	763		
Approach 1 Total 456		peak	3077	07:0	0 - 0	8:00	PM pe	eak	3413	16:45 - 17:45	Daily

Note: The information contained above is a SCATS output summary of detector counts during hourly intervals

Page 35 of 43 Lifestyle and opportunity @ your doorstep



1462

# PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eitham Street) – TMOP (Rev 2) COR2009/206 49 10 AM Peak 70 8 July 1361

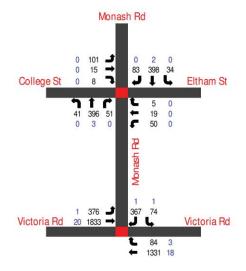
**PM Peak** 



### **ATTACHMENT 1**

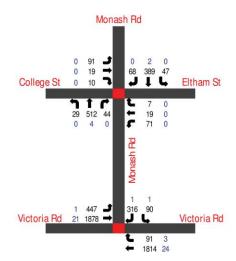
PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

### 9.4 Traffic Volume Diagrams





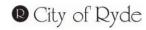
### 2013 Existing AM Peak Hour Traffic Volume





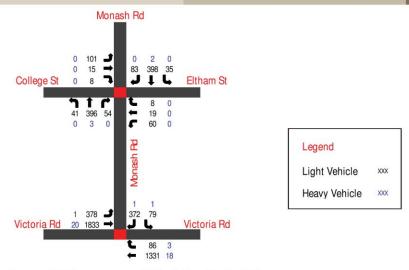
2013 Existing PM Peak Hour Traffic Volume

Page 37 of 43 Lifestyle and opportunity @ your doorstep

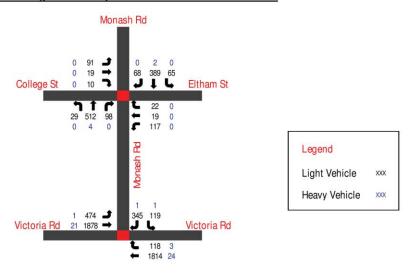


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PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206



### 2013 Existing With Development AM Peak Hour Traffic Volume



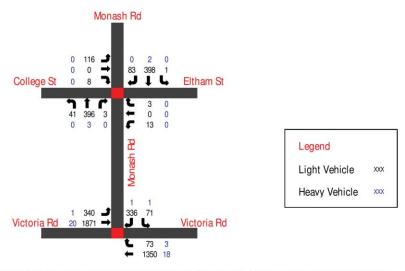
2013 Existing With Development PM Peak Hour Traffic Volume



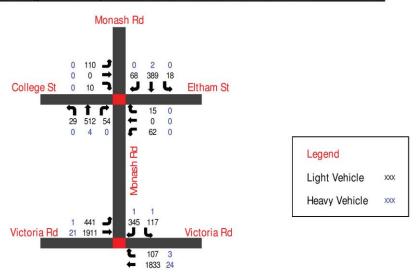


### **ATTACHMENT 1**

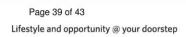
PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

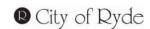


### 2013 Existing With Development With Eltham St Closure AM Peak Hour Traffic Volume



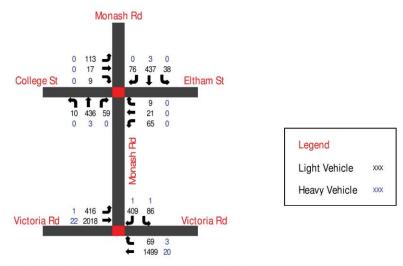
2013 Existing With Development With Eltham St Closure PM Peak Hour Traffic Volume



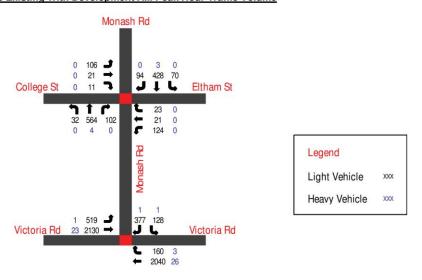


### **ATTACHMENT 1**

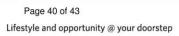
PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206



### 2023 Existing With Development AM Peak Hour Traffic Volume



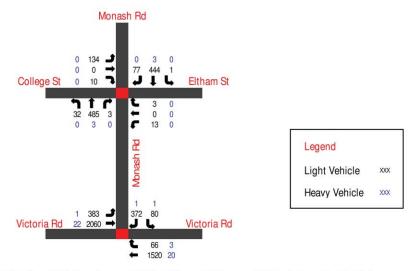
2023 Existing With Development PM Peak Hour Traffic Volume



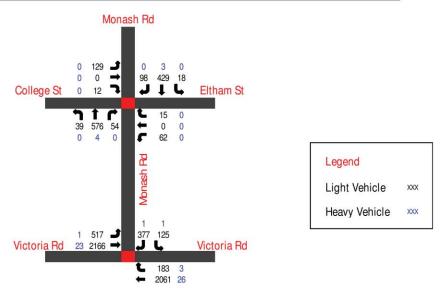


### **ATTACHMENT 1**

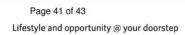
PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206



2023 Existing With Development With Eltham St Closure AM Peak Hour Traffic Volume



2023 Existing With Development With Eltham St Closure PM Peak Hour Traffic Volume





### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206

### 9.5 Traffic Generation Assumptions

The traffic generation used for analysis in this report were derived from various sources based on accepted traffic generation estimation methods. All of the rates used are based on RMS documents. The developments include:

- 407-417 Victoria Road & 1-9 Monash Road Gladesville
- · Bunnings Development
- 2 College Street & 10 Monash Road
- DCP related development along Monash Road

### 407-417 Victoria Road & 1-9 Monash Road Gladesville

The traffic generation for this development has been provided from the Varga Traffic Planning report dated December 2012. This report has been independently reviewed and found to be a reasonable estimate of future traffic generated by the proposed supermarket development.

### **Bunnings Development**

The traffic impact assessment for this development has been produced by TTPA in a report dated March 2012. This report has been independently reviewed and was found to be a reasonable estimate of traffic generation. It is noted that this development proposes an access off Victoria Road and would therefore remove some of the existing vehicle trips that currently use College Street as the existing developments have no access to Victoria Road.

### 2 College Street & 10 Monash Road

There is a proposal for a 4 storey mixed development at this location. A schedule for this development has been provided. Using the traffic generation rates published in the 'RTA Guide to Traffic Generating Developments' for medium density residential developments. The traffic generation was calculated and is shown in the Table below.

Level	1 x Bedroom	2x Bedrooms	3xBedrooms	Retail (m²)	Total
Rate	0.5 per bed	0.5 per bed	0.65 per bed	-	
LG		3	1		
G/1		3	1	285	
2	1	6	1		
3	2	2	1		
4	1	2	1		
Total	4	16	5	285	
Traffic Generation	2	8	3.25	-	14 vehicles

The total number of trips generated was 14 vehicles per hour. It was assumed a directional split of 80/20 in each of the peak. The retail floor space was considered to be so low that it would not generate any external vehicle trips and would be purely be to service tenants and local residents. This is likely to be a small café.

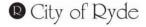
### **DCP Related developments**

The DCP for this area identifies properties along Monash Road that may developed in the future with increased floor space ratios.

Without any details on exactly what these developments would be the traffic generation for the areas identified in the DCP were based on the traffic generation estimate for 2 College Street and 10 Monash Road on a pro-rata basis. The DCP areas are shown in the Figure below.

Page 42 of 43

Lifestyle and opportunity @ your doorstep



### **ATTACHMENT 1**

PUBLIC WORKS ASSESSMENT REPORT FOR MONASH ROAD (incorporating Eltham Street) – TMOP (Rev 2) COR2009/206



The estimated traffic generation of the additional possible developments are indicated in the Table below. The basis was an estimated about 3.5 trips per level.

Development	Category	Traffic Generation
Development 1	Upto Level 5	18
Development 2	Upto Level 4	14
Development 3	Upto Level 3	11
Development 4	Upto Level 3	11
Development 4	Upto Level 1	4
Development 4	Upto Level 5	18
Development 4	Upto Level 3	11
	<b>Total Traffic Gen</b>	87

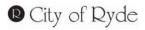
A directional split was assumed to be 80/20.

### **Background Traffic Growth**

To estimate the predicted traffic growth over ten years a 10% growth was applied to all traffic movements. This is consistent with level of traffic experienced in other areas of Sydney that are fully developed.

Page 43 of 43

Lifestyle and opportunity @ your doorstep





### **ATTACHMENT 1**

### City of Ryde - Preferred Providers

# 1. Provision of Minor Works and Services and Pre-qualification of providers for large Civil Works

Mastercut Concrete Aust Pty Ltd

Awada Civil Pty Ltd

KK Civil Engineering

MSA Civil and Communications

**Avant Constructions** 

Online Pipe & Cabling Locating

Australian urban Tree Services

Atlantis Group of Companies Pty Ltd

Anzellotti Constructions Pty Ltd

Nitro Civil and Earthworks

Ally Civil

A J Paving

The Australian Grinding Company

Workforce Road Services

**Exclusive Developments** 

C J Murphy Tree Recycling Services

**Mansour Paving** 

Allstate Linemarking

Get Civil

Celtic Civil

C W Concrete

Codmah

Sam the Paving Man

Interflow

North Shore Paving

Plateau Tree Service

Jeankon

Sydney Metro Tree Service

Kelbon

Complete Linemarking Services

Tirawley Contracting

Total Drain Cleaning Services

The Stump Guy Tree Care

I C Pipes

Scape Constructions

Talis Civil

Performance Concrete

South West Kerbing

**Guidance Road Management** 

ITS Trenchless

Downer

Ford Civil Contracting

MMA Civil Contracting

Northern Fencing Specialist



### **ATTACHMENT 1**

### 2. Plant Hire

A & A hire service
A and C Plant Hire Pty Ltd
Accalaimed Excavations Pty Ltd
Active Tipper Hire
Allards Plant hire pty ltd
Australian Grader Hire Pty Ltd
Barron Transport Pty Ltd
Coates Hire Operations
Complete Hire
Conplant Pty Ltd
DXcore Pty Ltd
E&B Tipper Hire Pty Ltd

G & R.D Chong Pty Ltd Haines Bros Earthmoving & Drainage

Kennards Hire Onsite Rental Group

Porter Plant

R & K Johnson Excavations

Raygal Pty Ltd

Shrrin Rentals Pty Ltd

Supreme Earthmoving Pty Ltd

Universal Mobile Tower Hire

### 3. Trades (electrical, plumbing and carpentry (currently being renewed)

JNK

Flash Plumbing

### 4. Assessment Consultants

### **Town Planning Consultants Preferred**

Architectus Group Pty Ltd aSquare Planning Pty Ltd Barnson Pty Ltd Bob Tillott Associates

Brian Elton & Associates / Elton Consulting

City Plan Strategy & Development Pty Ltd

Creative Planning Solutions Pty Ltd

Don J Smith

GHD Pty Ltd

McKenzie Group Consulting Planning (NSW) Pty Ltd

MP Urban Planning

Planning Ingenuity

Scott Carver Pty Ltd

SJB Planning (NSW) Pty Ltd

Smith & Tzannes

Stimson Consultant Services Pty Ltd ATF The BGN Trust

The Planning Group (NSW) Pty Ltd

Willana Associates

Worley Parsons Services Pty Ltd



### **ATTACHMENT 1**

### **Town Planning Consultants – Alternate**

Blueprint Planning Consultants
Cityscape Planning + Projects
DEM (Aust) Pty Ltd
James Stanley Colman
RPS Australia East Pty Ltd
Urban Perspectives Environmental Solutions Pty Ltd

### **Bushfire Consultants - Preferred**

Building Code & Bushfire Hazard Solutions Eco Logical Australia Pty Ltd Travers Bushfire & Ecology

### **Bushfire Consultants – Alternate**

GHD Pty Ltd

### Structural Engineers - Preferred

Cardno (NSW) Pty Ltd Consulting Earth Scientists James Rose Consulting

### Structural Engineers – Alternate

Demlakian Consulting Engineers Waterman AHW Pty Ltd Worley Parsons Services Pty Ltd

### **Landscape Architects – Preferred**

Paul Stacy Landscape Consulting Creative Planning Solutions Pty Ltd Moir Landscape Architect Pty Ltd

### **Landscape Architects – Alternate**

Anne Clements & Associates Pty Ltd DEM (Aust) Pty Ltd Group GSA Pty Ltd Imagescape Design Studios

### Access Consultants - Preferred

McKenzie Group Consulting Planning (NSW) Pty Ltd - Access Consultant

### Access Consultants – Alternate

None

### Consultant Development Engineers – Preferred Barker Ryan Stewart

Demlakian Consulting Engineers Optimal Stormwater Pty Ltd Worley Parsons Services Pty Ltd

### **Consultant Development Engineers – Alternate**

Barnson Pty Ltd Cardno (NSW) Pty Ltd James Rose Consulting

### **ATTACHMENT 1**

### **Consultant Architects – Preferred**

Architectus Group Pty Ltd Smith & Tzannes Worley Parsons Services Pty Ltd

### **Consultant Architects – Alternate**

Baker Kavanagh Architects
DEM (Aust) Pty Ltd
GHD Pty Ltd
Group GSA Pty Ltd
Jones Sonter
nkt Architect Pty Ltd
peckvonhartel
Shobha Designs

### **Heritage Consultants – Preferred**

Heritage Advice (BN) Noel Bell Ridley Smith & Partners Pty Ltd Worley Parsons Services Pty Ltd

### **Heritage Consultants – Alternate**

Artefact Heritage Services nghenvironmental

### **Consultant Traffic Engineers – Preferred**

Barker Ryan Stewart
Bitzios Consulting
GTA Consultants
gtk Consulting Pty Ltd
SMEC Australia Pty Ltd
Winning Traffic Solutions Pty Ltd

### **Consultant Traffic Engineers – Alternate**

Barnson Pty Ltd Cardno (NSW) Pty Ltd GHD Pty Ltd Halcrow

### 5. Learning and Development

Workforce Management Consulting
Wizard Corporate Training
Whyte & Co Pty Ltd
UXC Training Group
UNE Parnership Pty Ltd
Trans-Plant Training
Open Door Coaching Group
TAFE NSW Northern Group
Sydney Construction Training School
St John Ambulance
Skillnet Australia
Shire Coaching & Training
Segla International Pty Ltd



### **ATTACHMENT 1**

Secondnature International Pty Ltd

Sally Foley Lewis

Safeguard Training Services

**RMG Solutions** 

Risk Response & Rescue

Raising the Bar

Prisma Cross-Cultural Consultants

Premium Health Pty Ltd

PM Partners Group

Peter Berry Consultancy

People For Success

Passmore Duff Pty Ltd

**Pacific Consulting** 

National Safety Council of Australia

Monster Solutions Pty Ltd

Mirna Tarabay

Merryn Crawford Consulting

Medilife Pty Ltd

Maximus International Pty Ltd

Macquarie Community College

Local Government Training Institute

Linkage Australia & New Zealand Pty Ltd

LGSA

Kaplan Education Pty Ltd

**IPAA NSW** 

Integro Learning Company Pty Ltd

**Goal Professional Services** 

Forrest Training

Flanagan Brown Greaves Pty Ltd (Trading as FBG Group

DGR Consulting Pty Ltd

**Developing Potential Australia** 

Davidson Trahaire Corpsych

Communispond Australasia Pty Ltd

Comet Training Pty Ltd

Combined Training & Consulting

Central Coast Community College

Blue Visions Management Pty Ltd

Bite Sized Training Pty Ltd

Baseline Training & Consulting Pty Ltd

Barton Family Trust T/A Insight Services

Barrington Corporate Risk Pty Ltd

Australian Institute of Management NSW & ACT Training Centre Limited

Australian Commercial Disputes Centre LTD

Aurora Training & Professional Services Pty Ltd

Active Learning Centre International

Fraud Prevention and Governance Pty Ltd

### 6. Legal Services providers

Heard McEwan Legal

Kells the Lawyers

Maddocks

Marsdens Law Group



**ATTACHMENT 1** 

PCR Law and Associates
Planning Law Solutions
Sparke Helmore Lawyers
Stoey and Gough Solicitors and Attorneys

### 7. Catering

Amadeus Catering Pty Ltd U@MQ-ltd (Crunch Events and Catering) Toast Food North Ryde

### **ATTACHMENT 2**

### NPN2.11 Corporate Wardrobe (National Panel Contract)

The contracted suppliers are:

Supplie	er -
Staples	Australia Pty Ltd
Pacific I	Brands (NNT and Stylecorp)
Totally	NorkWear Group of Franchises;
•	Ballina / Coffs Harbour (NSW)
·	Central Coast (NSW)
•	Gold Coast and Nerang (QLD)
•	Dubbo (NSW)
•	Parkes (NSW)
	Port Stephens (NSW)
•	Richmond (SA)
•	Keilor Park and Maidstone (VIC)

# NPN3.11 - Supply of Workwear and Personal Protective Apparel (National panel contract)

Supplier	
Staples Australia Pty Ltd	
Pacific Brands (Hard Yakka)	
RSEA Pty Ltd	
Worksense Workwear and Safety Pty Limited	

### **ATTACHMENT 2**

LGP106-2 Advertising - Media Sydney Metropolitan Daily Newspapers, Regional Publications and On-line Advertising and LGP406-2 Advertising Agencies (NSW panel contract)

LGP106-2 - Advertising - Media Sydney Metropolitan Daily Newspapers, Regional Publications and On-line Advertising (panel contract)

The contracted suppliers are:

S			

John Fairfax Publications Pty Ltd

Nationwide News Pty Ltd

LGP406-2 - Advertising Agencies (panel contract)

The contracted agencies are:

### Supplier

Blaze Advertising

Leonard Holt Robb

### **ATTACHMENT 2**

# LGP308-2 - Playground, Open Space and Recreational Infrastructure

### The LGP Approved Contractors are:

- Abud Pty Ltd
- 2. Active Play Pty Ltd
- 3. A-Play
- 4. Austek Play
- 5. Community Asset Management NZ Limited
- 6. Court Craft Australia Pty Ltd
- 7. CRS Creative Recreation Solutions Pty Ltd
- 8. Ellis & Sons
- 9. Exeloo Pty Ltd
- 10. Fleetwood Urban Pty Ltd
- 11. Forpark Australia
- 12. Furphy Foundry Pty Ltd
- 13. G James Extrusion Co Pty Ltd
- 14. Greenline Group Pty Ltd
- 15. Kompan Playscape Pty Ltd
- 16. Landmark Products
- 17. Moduplay Group Pty Ltd
- 18. Moodie Outdoor Products Pty Ltd
- Orca Solar Lighting
- 20. Parkequip Pty Ltd
- 21. Play By Design Pty Ltd
- 22. Playrope Pty Ltd
- 23. Rechenberg Pty Ltd
- 24. Replas
- 25. RUD Chains Pty Ltd
- 26. Scully Outdoor Designs Pty Ltd
- 27. Spizvac Marketing Pty Ltd
- 28. Star Structures Pty Ltd
- 29. StraBe
- 30. Street Furniture Australia Pty Ltd
- 31. Synthetic Grass and Rubber Surfaces Australia Pty Ltd
- 32. Tiger Turf Australia Pty Ltd
- 33. The Glascott Group Pty Ltd
- 34. The Great Outdoor Gym Company
- 35. Town and Park Funiture
- 36. Unisite Pty Ltd
- 37. Urban Maintenance Systems
- 38. Viva Recreation Pty Ltd
- 39. Wagners CFTM Pty Ltd
- 40. Xenian Pty Ltd



### **ATTACHMENT 2**

# LGP1208-2 Professional Consulting Services (Engineering, Planning, Environment, Community and Assets)

### The LGP Approved Contractors are:

- Acoustic Dynamics Pty Ltd
- 2. ACT Geotechnical Engineers Pty Ltd
- 3. AEC Group Limited
- 4. Altus Group Consulting Pty Ltd
- 5. Altus Page Kirkland
- 6. Annand Associates Urban Design Pty Ltd
- 7. APC Environmental Management
- 8. APV Valuers & Asset Management
- 9. Aquenta Consulting Pty Ltd
- 10. Ardill Payne & Partners
- 11. Artefact Heritage Services Pty Ltd
- 12. Arup Pty Ltd
- 13. Asset & Facilities Management Consulting Pty Ltd
- 14. Asset Technologies Pacific Pty Ltd
- 15. AssetVal Pty Ltd
- 16. Australian Cultural Heritage Management (VIC Pty Ltd
- 17. AWT Water Pty Ltd
- 18. Barker Ryan Stewart Pty Ltd
- Beca Pty Ltd
- 20. Bewsher Consulting Pty Ltd
- 21. Biosis Pty Ltd
- 22. Bitzios Consulting
- 23. BMT WBM Pty Ltd
- 24. Bowdens Group Australia Pty Ltd
- 25. Brown Consulting (NSW) Pty Ltd
- 26. Building Services Engineers Pty Ltd
- 27. CAMMS
- 28. Capital Insight Pty Limited
- 29. Cardno (NSW/ACT) Pty Ltd
- 30. Catchment Simulation Solutions Pty Ltd
- 31. CH2M Hill Australia Pty Ltd
- 32. Civil Tech Consulting Engineers
- 33. CLOUSTON Associates (Australia) Pty Ltd
- 34. Coffey Environments (Australia) Pty Ltd
- 35. Complete Urban Pty Ltd
- 36. Cox Inall Ridgeway
- 37. CT Management Group Pty Ltd
- 38. Danu Consulting Pty Ltd
- David Heap & Associate
- 40. Demlakian Consulting Services



### **ATTACHMENT 2**

41.	Douglas Partners Pty Ltd
42.	Dragonfly Environmental Pty Ltd
43.	Eco Logical Australia Pty Ltd
44.	Ecofund Queensland Pty Ltd
45.	Ecosite Solutions Pty Ltd
46.	Edge Environment Pty Ltd
47.	Elton Consulting Group Pty Ltd
48.	Equatica Pty Ltd
49.	Erbas and Associates Pty Ltd
50.	Floth Sustainable Building Consultants
51.	Fresh Landscape Design Pty Ltd
52.	Gallagher Jeffs Consulting
53.	Geolyse Pty Limited
54.	Gerard Coutts & Associates
55.	GHD Pty Ltd
56.	Gilbert & Sutherland Pty Ltd
57.	Giles Tribe Pty Limited
58.	Graphite Architects
59.	GroupGSA incorporating John Holland Landscape Architects and Associates
60.	Guy Sturt & Associates Pty Ltd
61.	Gyte Consulting International Pty Ltd
62.	Hill PDA Pty Ltd - pending receipt of signed standing offer deed
63.	Homewood Consulting
64.	Hunter Water Australia Pty Limited
65.	HydroScience Consulting Pty Ltd
66.	Hydrosphere Consulting Pty Ltd
67.	HydroStorm Consulting Pty Ltd
68.	Ian Alexander McQuhae
69.	J Wyndham Prince Pty Ltd
70.	James Mather Delaney Design Pty Ltd
71.	James Rose Consulting Pty Ltd
72.	Jerez Enterprises Pty Ltd - pending receipt of signed standing offer deed
73.	Jetty Research Pty Ltd
74.	KF Williams & Associates Pty Ltd - pending receipt of signed standing offer deed
75.	King & Campbell Pty Ltd
76.	Lambert & Rehbein (NSW) Pty Ltd
77.	LFA (Pacific) Pty Ltd
78.	Local Government Engineering Services Pty Ltd
79.	MacDonald International
80.	MacroPlan Dimasi
81.	Maluxme Capital Pty Ltd
82.	Matthew Higginson Landscape Architecture
83.	MB Envirocare Pty Ltd
84.	Mecone Pty Ltd



### **ATTACHMENT 2**

85.	Meinhardt Infrastructure & Environment Pty Ltd
86.	MG Planning Pty Ltd
87.	Mike Ritchie & Associates Pty Ltd
88.	MJM Consulting Engineers
89.	Mode Design Corp. Pty. Ltd
90.	Moir Landscape Architecture Pty Ltd
91.	Molino Stewart
92.	Montemare Consulting
93.	Morrison Low Consultants Pty Ltd
94.	Moultrie Survey Pty Ltd
95.	MWH Australia Pty Ltd
96.	Newton Denny Chapelle
97.	NGH Environmental Pty Ltd
98.	Northrop Consulting Engineers Pty Ltd
99.	NSW Department of Finance and Services (DFS)
100.	Opus International Consultants (NSW) Pty Ltd
101.	Parkland Environmental Planners
102.	Parsons Brinckerhoff Australia Pty Ltd
103.	Phillips Group Pty Ltd
104.	Phillips Marler
105.	Planning Environmental & Economic Consulting
106.	Planright Australasia Pty Ltd
107.	PSA Consulting (Australia) Pty Ltd
108.	Rapid Map Services Pty Ltd
109.	RCA Australia
110.	Regional Geotechnical Solutions Pty Ltd
111.	Rice Project Management Services
112.	Risk Frontiers
113.	Risk Management Australia Pty Ltd
114.	RoadNet Pty Ltd
115.	Royal HaskoningDHV
116.	Rudds Consulting Engineers Pty Ltd
117.	Scottstock IT Pty Ltd
118.	Sergon Building Consultant
119.	SGS Economics and Planning Pty Ltd
120.	SLR Consulting Pty Ltd
121.	Storm Consulting Pty Ltd
122.	Straight Talk Pty Ltd
123.	Strategy Hunter
124.	The Water and Carbon Group Pty Ltd
125.	TLB Engineers
126.	TompkinsMDA Architects Pty Ltd
127.	Total Earth Care Pty Ltd
128.	Tract Consultants Pty Ltd



### **ATTACHMENT 2**

129.	Trans	Tasman	Energy	Group	Pty	Ltd
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- 130. Umbaco Landscape Architects Pty Ltd
- 131. Urban Perspectives Environmental Solutions Pty Ltd
- 132. Vantage Environmental Management Pty Ltd
- 133. Vekta Pty Ltd
- 134. WaterGroup Pty Ltd
- 135. Waterman AHW Pty Limited
- 136. Webber Architects
- 137. WMAwater
- 138. WS Atkins International Limited

### **ATTACHMENT 2**

### LGP808-2 - HR Temporary Placements and Associated Services

The LGP Approved Contractors are:

- 1. Advantage Professional Pty Ltd
- 2. Allstaff Australia Pty Ltd
- 3. Australian Business Solutions Group
- 4. Capstone Recruitment Group Pty Ltd
- 5. Careers MultiList Limited
- 6. Challenge Recruitment Limited
- 7. Chandler MacLeod Group Limited
- 8. Complete Staff Solutions Pty Ltd
- 9. Conduit Recruitment
- 10. CT Management Group Pty Ltd
- 11. Drake Australia Pty Ltd
- 12. Early Learning Placements Pty Ltd
- 13. Eather Recruitment and Labour Hire
- 14. Effective People Pty Ltd
- 15. Finite IT Recruitment Solutions
- 16. Hays Specialist Recruitment (Australia) Pty Ltd
- 17. IPA Personnel Pty Ltd
- 18. JHA Recruitment & Staff @ Work Pty Ltd
- 19. Kingfisher Recruitment NSW Pty Limited
- 20. LabourCo Council Services Pty Ltd
- 21. Labourpower Recruitment Services Pty Ltd
- 22. Local Government Appointments
- 23. Manpower Services (Australia) Pty Ltd
- 24. McArthur
- 25. MCJ Appointments Pty Ltd
- 26. Michael Page International
- 27. MTC Recruitment Limited
- 28. Men At Work Labour Hires NSW
- 29. NGA Net Pty Ltd
- 30. NORTEC Staffing Solutions
- 31. Programmed Intergrated Workforce Limited
- 32. Quay Appointments Pty Limited
- 33. Randstad Pty Ltd
- 34. Redistaff
- 35. Regent Personnel Pty Ltd
- 36. SCO Recruitment
- 37. Skilled Group Limited
- 38. Workforce Recruitment and Labour Services Pty Ltd

The contract concludes on 30 November 2015 with optional 2 x 12 month extensions. For further information contact Bruce Rose <a href="mailto:brose@lgp.org.au">brose@lgp.org.au</a> or 02 8270 8708 or 0409 818 355.

### **ATTACHMENT 2**

# LGP1007-2 Office Supplies and Janitorial (including; Heavy Duty Cleaning) and Associated Products

The LGP Approved Contractors are:

GP Approved Contractor	
lackwoods	
Complete Office Supplier Pty Ltd	
Syndan Chemicals	
nvironmental Fluid Systems Pty Ltd	
OfficeMax Australia Limited	
taples Australia Pty Ltd	

More suppliers may be added post negotiations.

### LGP407-2 - Telecommunications (NSW panel contract)

The contracted suppliers are:

Supplier	
AAPT Limited	
Applied Satellite Technology Australia	
CountryTell Community Broadband	
Optus Networks Pty Ltd	
Pacnet	
Soul Pattinson Telecommunications Pty Ltd	
Telstra Corporation Limited	
Vertical	

### LGP109-2 Debt Recovery

The LGP Approved Contractors are:

The Ear Approved Contractors are.	
LGP Approved Contractor	
AMPAC Debt Recovery Pty Ltd	
Austral Mercantile Collections Pty Ltd	
Australian Debt Recoveries Pty Ltd	
CDC Collections Australia	
Coleman Greig Lawyers	
Custom Commercial Services Pty Ltd	



### **ATTACHMENT 2**

Executive Collections
J S Mueller & Co
Legalforce Specialist Debt Collectors
NV Lawyers
Outstanding Collections (AUST) Pty Ltd
Recoveries & Reconstructions (Aust) Pty Ltd
SR Law

# LGP1107-2 Operating Lease Services to cover Information and Communications Technology, Photocopiers, Printers and other Equipment.

THIS CONTRACT IS FOR COUNCIL USE ONLY

The contracted supplier is:

Supplier

Macquarie Equipment Finance



### **ATTACHMENT 2**

### LGP1008-2 Provision of IT&C Professional Services

### LGP Approved Contractors are:

AB Industries Pt			

- 2. Acresta Carbon Pty Ltd
- 3. Acresta Mobile Pty Ltd
- 4. Advance Vision Technology Trust
- 5. Allcom Networks Pty Ltd
- 6. Andor Systems (Aust) Pty Ltd
- 7. Art of Multimedia Pty Ltd
- 8. Artis Group
- 9. Assetic Australia Pty Ltd
- 10. ASI Solutions
- 11. Aten Systems Pty Ltd
- 12. ATI Australia Pty Ltd pending receipt of the signed Standing Offer Deed
- 13. CAMMS
- 14. Cirrus Technologies Pty Ltd
- 15. Civica Pty Limited pending receipt of the signed Standing Offer Deed
- 16. Communications Design & Management Pty Limited
- 17. Computer Systems (Australia) Pty. Limited
- 18. Content Security Pty Ltd
- 19. Converged Communication Network Applications Pty Ltd
- 20. CQR Consulting Australia Pty Ltd
- 21. Datacom Systems NSW Pty Ltd
- 22. Dataflex Pty Ltd
- 23. Dataweave Pty Ltd
- 24. Dialog Information Technology
- 25. Dragonfly Technologies Pty Ltd
- 26. Empower IT Solutions Pty Ltd27. Enigma Business Products
- 28. Enosys Solutions Pty Ltd
- 29. Ethan Group Pty Ltd
- 30. Fibre Optics Design and Construct Pty Ltd
- 31. FinXL IT Professional Services.
- 32. Fredon Industries Pty Ltd.
- 33. Fusion5 Pty Ltd
- 34. Global Asset Systems Pty Ltd
- 35. Hitech Support Pty Ltd
- 36. IAB Services
- 37. ICON Strategic Solutions Pty Ltd
- 38. Iconyx Pty Ltd
- 39. ICT Networks Pty Ltd
- 40. IMC Communications Pty LTD
- 41. Ipera Communications Pty Ltd

### **ATTACHMENT 2**

42.	iPlatinum
43.	Kalba Australia Pty Ltd
44.	Lange Consulting and Software
45.	Linktech Solutions Pty Ltd
46.	MARM UPS Pty Ltd
47.	MassMedia Studios Pty Ltd.
48.	MCR Computer Resources Pty Ltd
49.	Multibase WebAustralis Pty Ltd
50.	Net Communications Pty Ltd
51.	Odyssey Training
52.	Open Spatial Australia Pty Ltd
53.	OSS Infotech Pty Ltd
54.	PTS Consulting Australia Pty Ltd - pending receipt of the signed Standing Offer Deed
55.	Quest Security Solutions Pty Ltd
56.	Revolution IT Pty Ltd
57.	SAF Australia Pty Ltd
58.	Sense of Security Pty Ltd
59.	Simient Pty Ltd
60.	Stamford Interactive Pty Ltd
61.	SureBridge Pty Ltd
62.	Telcell Communication Pty Ltd
63.	Terra Firma Pty Ltd
64.	The Somerville Group Pty Ltd
65.	The Strategic Directions Group Pty Ltd
66.	Thomas Duryea Consulting Pty Ltd
67.	Trimble Navigation Australia Pty Ltd - pending receipt of the signed Standing Offer Deed
68.	Uplinx Group Pty Ltd
69.	Vivid Group Pty Ltd - pending receipt of the signed Standing Offer Deed
70.	VMTech
71.	Well Done International Pty Ltd

# LGP108-2 Microsoft Licensing and Associated Products and Services via Large Account Resellers (LARs)

### THIS CONTRACT IS FOR COUNCIL USE ONLY

The LGP Approved Contracts are:

LGP Approved Contractor	
Datacom Systems NSW Pty Ltd	
Data#3 Limited - pending receipt of standing offer deed	
SoftwareONE Australia Pty Ltd	
Stanles Australia Ptv I td	

### **ATTACHMENT 2**

# LGP306-2 Supply of PCs, Notebooks, Servers and Associated Services and Equipment

### The Contracted Suppliers are:

- ACT Logistics P/L
- 2. Advanced Mobile IT Pty Ltd
- 3. Allcom Networks Pty Ltd
- 4. APCD Pty Ltd
- 5. ASI Solutions
- 6. Computer Systems Australia
- 7. Data#3 Ltd
- 8. Dataflex Pty Ltd
- 9. Dell Australia Pty Ltd
- 10. Enigma Business Products
- 11. Fujitsu PC Asia Pacific Ltd
- 12. iQ3 Pty Ltd
- 13. MCR Computer Resources Pty Ltd
- 14. MRI (Aust) Pty Ltd
- 15. Net Communications Pty Ltd
- 16. Pioneer Computers (Dream Industrial Pty Ltd)
- 17. Staples Australia Pty Ltd
- 18. 4D Global Pty Ltd
- 19. Thomas Duryea Consulting Pty Ltd

### LGP309 RFID Systems (NSW panel contract)

Supplier			
Bibliotheca RFID Systems Australia Pty Ltd			
Civica Pty Ltd			
EnvisionWare Pty Ltd			
FE Technologies			



### **ATTACHMENT 2**

# LGP507-2 - Library Books and Resource Materials (NSW panel contract)

Supplier	
AES Library Supplies	
ALS Library Services Pty Ltd	
Bloomin' Books	
Bolinda Publishing Pty Ltd (Audiobooks and Large Print)	
Bolinda Digital Pty Ltd (eBooks, eAudiobooks)	
Book Supplies Pty Ltd	
Continental Book Shop Soundbooks Pty Ltd	
Digital Education Services	
Educational Concepts (Sales) Pty Ltd/ Book Zone Sales	
Elan Media Partners Pty Ltd	
Gametraders Parramatta	
Global Language Books Pty Ltd	
James Bennett Pty Ltd	
Keith Ainsworth Pty Ltd	
Kinokuniya Bookstores of Australia Pty Ltd	
Library AV and Large Print Pty Ltd	
Marcom Projects Pty Ltd	
MDM Entertainment Pty Ltd	
Peter Pal Library Supplies	
Phoenix Library Services	
Sound Text Media Pty Ltd	
Southern Scene Pty Ltd	
Sydney Books Online	
The BookHouse	
Ulverscroft Large Print (Australia) Pty Ltd	
University Co-Operative Bookshop	
Warner Books Pty Ltd	
Wavesound Pty Ltd	
Zenith Management Services Group Pty Ltd	

### **ATTACHMENT 2**

### LGP408 - Chemicals (NSW panel contract)

The contracted suppliers are:

Supplier	
Globe Australia Pty Ltd	
Hammersley Products Australia Pty Ltd	
Landmark Operations Limited	
Maxwell and Kemp	
Nuturf	
Omega Chemicals	
Redox Pty Ltd	
Tasman Chemicals	

# LGP908-2 Pipes, Fittings & Fixtures and Associated Products & Services

The LGP Approved Contractors are:

LGP Approved contractor
BCP Precast
MultiTrode Pty Ltd
Pentair Water Solutions Pty Ltd
Reece Pty Ltd
RuhrpumpSihi Australia Pty Ltd
Tradelink Plumbing Centres

# LGP508 - Small Plant and Outdoor Power Equipment (NSW panel contract)

Supplier	
Australian Hammer Supplies Pty Ltd	
Briggs and Stratton Australia Pty Ltd (Victa Lawncare Pty Ltd)	
GWS Machinery P/L	
GYC Pty Ltd	
Husqvarna Australia Pty Ltd	
John Deere	
New Holland Agriculture	

### **ATTACHMENT 2**

Steamaster Australia Pty Ltd

Specialised Mowing Equipment

STIHL Pty Ltd

# NPN1.11 Supply of Mobile Garbage Bins, Industrial Containers & Bins, Static Compactors, Associated Products and Services (National panel contract)

### The contracted suppliers are:

### Supplier

Fallshaw Holdings Pty Ltd/ Liftmaster Materials Handling

Garwood International Pty Limited

Mastec Australia Pty Ltd

SULO MGB Australia Pty Ltd

Superior Pak

Wastech Engineering Pty Ltd

### LGP707-2 - Heavy Plant and Equipment (NSW panel contract)

- Atlas Copco Construction Equipment Dynapac
- 2. Ausroad Systems Pty Ltd (formerly Jetpatcher Roadtech Pty Ltd)
- 3. Carrington Equipment Pty Ltd
- 4. Case NSW
- 5. CJD Equipment Pty Ltd
- 6. Clark Equipment Bobcat
- 7. Conplant Amman Australia
- 8. Eagle Equipment Australia Pty Ltd
- 9. Hitachi Construction Machinery (Australia) Pty Ltd
- 10. JCB Construction Equipment Australia Pty Ltd
- 11. Komatsu Australia Pty Ltd
- 12. Kubota Tractor Australia Pty Ltd
- 13. Liebherr Australia Pty Ltd
- 14. McDonald Murphy Machinery
- 15. Paveline International Pty Ltd
- 16. Price Farm Machinery
- 17. Semco Equipment Sales
- 18. Sydney Trucks and Machinery Centre Pty Ltd (previously Tri-City Trucks Pty Ltd)
- 19. Westrac Pty Ltd
- 20. William Adams Pty Ltd

### **ATTACHMENT 2**

21. Wirtgen Australia Pty Ltd

# BUS198-0410 - Trucks, Vans and Omnibuses (National panel contract)

### The contracted suppliers are:

- 1. Cargotec Australia Pty Ltd
- 2. Hino Motor Sales Australia Pty Ltd
- 3. Isuzu Australia Limited
- 4. Iveco Trucks Australia Ltd
- 5. PACCAR Australia Pty Ltd (DAF and Kenworth)
- 6. Paveline International Pty Ltd
- 7. Rosmech Sales and Service Pty Ltd
- 8. Scania Australia Pty Ltd
- 9. Schwarze Industries Australia Pty Ltd
- 10. Transpacific Commercial Vehicles (Western Star, Dennis Eagle, Foton and MAN)
- 11. UD Trucks Australia Pty Ltd
- 12. Volvo Commercial Vehicles Sydney

# LGP1608-2 Specialised Truck Bodies and Machines: Waste Collection, Civic Cleaning, Removal and Access.

### The LGP Approved Contractors are:

- 1. ASC Dulevo Pty Ltd
- 2. Binksie Services Pty Ltd
- 3. Garwood International Pty Ltd
- 4. Hako Australia Pty Ltd
- 5. MacDonald Johnston Pty Ltd
- 6. Manco Engineering Australia Pty Ltd
- 7. Rosmech Sales & Service Pty Ltd
- 8. Tennant Australia

### **ATTACHMENT 3**



# Your PA Procurement Australia Contracts NEW SOUTH WALES April 2013

CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES	
1204/0617 Advertising and Media		0617 Advertising and Media Services		
		Adcorp Australia (Vic) P/L		
		Blaze P/L		
		Marketforce Advertising Ltd		
1506/0217	Automotive Spare Parts	-	30/06/201	
		Burson Automotive Parts		
		CBC Australia		
		Repco Australia		
1110/0103	Bulk Fuels		31/10/2013	
	Biodiesel			
		Caltex Australia Petroleum P/L		
		McLennan Bulk Fuel		
		Reliance Petroleum		
		Scotts Petroleum		
	Diesel	Outro Australia Batalana Bil		
		Caltex Australia Petroleum P/L		
		McLennan Bulk Fuel		
		Reliance Petroleum		
	E40	Scotts Petroleum		
	E10	Caltex Australia Petroleum P/L		
		McLennan Bulk Fuel		
		Reliance Petroleum		
		Scotts Petroleum		
	Unleaded	ooko i okolodii		
	omoudou	Caltex Australia Petroleum P/L		
		McLennan Bulk Fuel		
		Reliance Petroleum		
		Scotts Petroleum		
© Your PA Procu	rement Australia 2013	Thursday, 4 April 2013	Page 1 of 20	
		month. For contracts close to expiry, please c	contact your dedicated Procurement Australia	
A STATE OF THE PROPERTY OF THE PARTY OF THE	er to receive a status update ey Office	Andy Norton	Marea Getsios	
5,55, 55		Northern NSW Area Manager	Southern NSW Area Manager	

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Lake Haven, NSW 2263

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Marea Getsios Southern NSW Area Manager Mobile: 0412 096 617 Email: mgetsios@paltd.com.au

#### **ATTACHMENT 3**

CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
1401/1205	Cash Collections		31/01/2014
	Cash Collections - Facilitie	8	
		Australia Wide Security Brokers P/L	
		Linfox Armaguard P/L	
	Cash Collections - Parking		
		Linfox Armaguard P/L	
	Cash Counting		
		Australia Wide Security Brokers P/L	
	525 100000 M	Linfox Armaguard P/L	
	Cash Delivery	Acceptable Milds Consults Designer Dill	
		Australia Wide Security Brokers P/L	
	TOTAL BOOK AND	Linfox Armaguard P/L	Museum
1508/0831	Cleaning Consumables ar	nd Services	31/08/2015
	Cleaning Consumables		
		Apex Cleaning & Polishing Supplies P/L	
		Dominant Australia P/L	
		J Blackwood & Son P/L	
		Staples Australia P/L	
1212/0901	Corporate Uniform Protective Clothing & Safety Products		31/12/2013
	Corporate Uniforms		
		Janine Baird Uniforms	
		Neat & Trim Uniform P/L	
		Specialized Apparel	
		Worksense Safety & Workwear P/L	
		Yakka P/L	
	Melbourne City Council Cu	stomised Corporate Uniform	
		Janine Baird Uniforms	
	PPE & Safety Products		
		J Blackwood & Son P/L	
		Janine Baird Uniforms	
		Staples Australia P/L	
		Stay Safe P/L	
		Worksense Safety & Workwear P/L	
		Yakka P/L	
1410/0619	Courier Services		31/12/2014

Australia Post

Jet Couriers (Sydney) Pty Ltd

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Page 2 of 20

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CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
1511/1212	Debt Collection Services		30/11/2015
	Debt Collection Services		
		Australian Receivables Limited	
		Midstate Credit Management Services P/L	
		ML&C Collections P/L	
		National Credit Management Ltd	
		Recoveries & Reconstruction (Aust) P/L	
1212/1011	Electrical Products		30/06/2013
		L&H Group	
		MM Electrical	
		Rexel Electrical Supplies	
1510/1023	Gases & Associated Produc	An interpretation of the Control of	31/10/2015
	Compressed Gases		
	ounpresses outside	BOC Limited	
1503/1019	Hardware, Plumbing, Cemer	nt Products & Herbicides	30/04/2015
	Cement & Associated Produc	ets	
		Bunnings Group Limited	
	Hardware & Associated Prod		
		Bunnings Group Limited	
		J Blackwood & Son P/L	
	Herbicides & Associated Pro	ducts Bunnings Group Limited	
	Plumbing Equipment & suppl		
	Tranibing Equipment & Suppl	Bunnings Group Limited	
		Reece Australia P/L	
1309/0310	Hire of Equipment	displication of the control of the c	19/12/2013
	Relocatable Buildings		
	area and a succession of the s	Coates Hire Operations	
	Road Construction, Tools & E	THE ATTEMPT OF THE PROPERTY OF	
		Coates Hire Operations	
	Temporary Fencing	Australian Tamasan, Fancina D/I	
		Australian Temporary Fencing P/L	
1011/0017	Iller a DV-1-1	Coates Hire Operations	04/40/0040
1311/0217	Hire of Vehicles		31/10/2013
	Commercial Vehicles	Budget Rent A Car Australia P/L	
		Europear Australia & New Zealand	
		Thrifty Car Rentals	
	Passenger Vehicles	Thirty our Nortals	
	, addingor various	Budget Rent A Car Australia P/L	
		Europcar Australia & New Zealand	
		Thrifty Car Rentals	
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This document is			ontact your dedicated Procurement Australia
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CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
1404/0710	IT Products & Services		30/06/201
	Disposal Services		
		MRI (Aust) P/L	
		Staples Australia P/L	
	IT Hardware	0 11 1 5 8	
		Gen-i Australia P/L	
		Invotec P/L	
		Southern Cross Computer Systems P/L	
		Staples Australia P/L	
	17.1.7	Thomas Duryea Consulting	
	IT Infrastructure	02 Networks P/L	
		Anyware Computer Accessories	
		Gen-i Australia P/L	
		Invotec P/L	
		Southern Cross Computer Systems P/L	
		Staples Australia P/L	
		Thomas Duryea Consulting	
	IT Services	Thomas Duryea Consulting	
	11 Services	02 Networks P/L	
		Applied Aged Care Solutions P/L	
		Gen-i Australia P/L	
		Invotec P/L	
		Logical Technologies P/L	
		Southern Cross Computer Systems P/L	
		Staples Australia P/L	
		Synergy Corporate Technologies	
		Terra Firma P/L	
		Thomas Duryea Consulting	
	Leasing	,	
	77.5.7.7.11.11 <b>.4</b>	Gen-i Australia P/L	
		Staples Australia P/L	
	RFID Procducts		
		3M Australia P/L	
		Bibliotheca RFID Library Systems Australia P/L	
		Caval Ltd	
		FE Technologies	
		Tecevo Automated Systems	
	Software		
		Anyware Computer Accessories	
		Applied Aged Care Solutions P/L	
		Gen-i Australia P/L	
		Invotec P/L	
		Southern Cross Computer Systems P/L	
	rement Australia 2013	Thursday, 4 April 2013	Page 4 of 20
	updated at the end of each r to receive a status update.	month. For contracts close to expiry, please contac	t your dedicated Procurement Australia
OSCIOLATION IN LINE OF THE IN	y Office	Andy Norton	Marea Getsios
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#### **ATTACHMENT 3**

CONTRACT NO DESCRIPTION CONTRACTOR EXPIRES

Staples Australia P/L Synergy Corporate Technologies Thomas Duryea Consulting

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Page 5 of 20

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.ibrary Books, Av Media, Additional Support Service	ALS Library Service Arab Friends Book Club Aussie Global Books Baker & Taylor Inc Bolinda Publishing P/L Books Music and Videos Brian Farrow Agency P/L Caval Ltd	30/06/201
Additional Support Service	ALS Library Service Arab Friends Book Club Aussie Global Books Baker & Taylor Inc Bolinda Publishing P/L Books Music and Videos Brian Farrow Agency P/L Caval Ltd	
	Arab Friends Book Club Aussie Global Books Baker & Taylor Inc Bolinda Publishing P/L Books Music and Videos Brian Farrow Agency P/L Caval Ltd	
	Aussie Global Books Baker & Taylor Inc Bolinda Publishing P/L Books Music and Videos Brian Farrow Agency P/L Caval Ltd	
	Baker & Taylor Inc Bolinda Publishing P/L Books Music and Videos Brian Farrow Agency P/L Caval Ltd	
	Bolinda Publishing P/L Books Music and Videos Brian Farrow Agency P/L Caval Ltd	
	Books Music and Videos Brian Farrow Agency P/L Caval Ltd	
	Brian Farrow Agency P/L Caval Ltd	
	Caval Ltd	
	Digital Educational Services	
	DLS Australia	
	Educational Concepts Sales P/L	
	Elan Media Partners P/L	
	Global Language Books P/L	
	Insegna Booksellers	
	James Bennett P/L	
	Julian Wood Bookseller P/L	
	LN Viet Books Pty Ltd	
	Marcom Projects	
	Peter Pal Library Supplier	
	Protect A Book	
	QEC Distribution (Aust)	
	Queensland Library Supplies P/L	
	Readings P/L	
	Robinsons Bookshop	
	Sound Text Media	
	Southern Scene	
	Thorpe-Bowker	
	Ulverscroft Large Print (Australia) P/L	
	University Co-operative Bookshop Ltd	
	Warner Books P/L	
	Wavesound P/L	
	Zenith Management	
AV Material	ALCUITATE OF THE	
	AND	
	Herri Waller 1997	
	and an east on religious	
	Caval Ltd	
	Thursday, 4 April 2013	Page 6 of 20
		ontact your dedicated Procurement Australia
ffice	Andy Norton	Marea Getsios
103	Northern NSW Area Manager	Southern NSW Area Manager
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		Insegna Booksellers James Bennett P/L Julian Wood Bookseller P/L LN Viet Books Pty Ltd Marcom Projects Peter Pal Library Supplier Protect A Book QEC Distribution (Aust) Queensland Library Supplies P/L Readings P/L Robinsons Bookshop Sound Text Media Southern Scene Thorpe-Bowker Ulverscroft Large Print (Australia) P/L University Co-operative Bookshop Ltd Warner Books P/L Wavesound P/L Zenith Management  AV Material  ALS Library Service Arab Friends Book Club Aussie Global Books Baker & Taylor Inc Beograd Online PL Bolinda Publishing P/L Books Music and Videos Caval Ltd  ent Australia 2013 Thursday, 4 April 2013 dated at the end of each month. For contracts close to expiry, please correceive a status update.  ffice Andy Norton Northern NSW Area Manager

CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
		Continental Bookshop	
		Digital Educational Services	
		Elan Media Partners P/L	
		Foreign Language Bookshop	
		Greek Book Importers	
		Insegna Booksellers	
		James Bennett P/L	
		Julian Wood Bookseller P/L	
		LN Viet Books Pty Ltd	
		Marcom Projects	
		Mondo Music P/L	
		Negozio Italia	
		Nusantara Indonesian Bookshop PL	
		Peter Pal Library Supplier	
		Readings P/L	
		Robinsons Bookshop	
		Sound Text Media	
		Southern Scene	
		Ulverscroft Large Print (Australia) P/L	
		University Co-operative Bookshop Ltd	
		Wavesound P/L	
		Zagreb Croatian Bookshop	
	Downloadable Materials	Zagreb Groatian Bookshop	
	Downloadable Materials	ALS Library Service	
		Aussie Global Books	
		Bolinda Publishing P/L	
		James Bennett P/L	
		Library Ideas LLC	
		Overdrive Inc	
		Warner Books P/L	
		Wavesound P/L	
	English Printed Material	Wavesoulid 17E	
	English i filited Material	ALS Library Service	
		Baker & Taylor Inc	
		Brian Farrow Agency P/L	
		Civica Library and Learning	
		Continental Bookshop	
		Digital Educational Services	
		DLS Australia	
		Educational Concepts Sales P/L	
		Foreign Language Bookshop	
		James Bennett P/L	
		Julian Wood Bookseller P/L	
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	updated at the end of ear to receive a status update	ch month. For contracts close to expiry, please of	contact your dedicated Procurement Australia
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CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
		Peter Pal Library Supplier	
		Readings P/L	
		Robinsons Bookshop	
		Slow Glass Books P/L	
		Sound Text Media	
		Southern Scene	
		University Co-operative Bookshop Ltd	
		Warner Books P/L	
	Full Shelf Ready Services		
		ALS Library Service	
		Aussie Global Books	
		Baker & Taylor Inc	
		Bolinda Publishing P/L	
		Books Music and Videos	
		Caval Ltd	
		Civica Library and Learning	
		Continental Bookshop	
		Digital Educational Services	
		DLS Australia	
		EBSCO Australia	
		Educational Concepts Sales P/L	
		Elan Media Partners P/L	
		Insegna Booksellers	
		James Bennett P/L	
		Julian Wood Bookseller P/L	
		LN Viet Books Pty Ltd	
		Marcom Projects	
		Peter Pal Library Supplier	
		Protect A Book	
		Sound Text Media	
		Southern Scene	
		Ulverscroft Large Print (Australia) P/L	
		Wavesound P/L	
		Zenith Management	
	Large Printed Material		
		ALS Library Service	
		Aussie Global Books	
		Baker & Taylor Inc	
		Bolinda Publishing P/L	
		Brian Farrow Agency P/L	
		Continental Bookshop	
		DLS Australia	
		Foreign Language Bookshop	
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	odated at the end of each oreceive a status update.	month. For contracts close to expiry, please of	ontact your dedicated Procurement Australia
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CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
		James Bennett P/L	
		Julian Wood Bookseller P/L	
		Southern Scene	
		Ulverscroft Large Print (Australia) P/L	
		Wavesound P/L	
	LOTE Printed Material		
		Arab Friends Book Club	
		Aussie Global Books	
		Baker & Taylor Inc	
		Beograd Online PL	
		Books Music and Videos	
		Casalini Libri Spa	
		Caval Ltd	
		Civica Library and Learning	
		Continental Bookshop	
		Digital Educational Services	
		Foreign Language Bookshop	
		Global Language Books P/L	
		Greek Book Importers	
		Insegna Booksellers	
		LN Viet Books Pty Ltd	
		Negozio Italia	
		Nusantara Indonesian Bookshop PL	
		Zagreb Croatian Bookshop	
	Online Subscriptions		
		Adult Multicultural Education Services	
		Casalini Libri Spa	
		Digital Educational Services	
		Foreign Language Bookshop	
		James Bennett P/L	
		Library Ideas LLC	
		RMIT Publishing	
		Thorpe-Bowker	
		Warner Books P/L	
		Wavesound P/L	
	Printed Periodical Subscri	aption and Magazines Arab Friends Book Club	
		Beograd Online PL	
		EBSCO Australia	
		Greek Book Importers	
		Isubscribe P/L	
		LN Viet Books Pty Ltd	
		Negozio Italia	
212 127-2		10755	
	ement Australia 2013	Thursday, 4 April 2013 th month. For contracts close to expiry, please of	Page 9 of 20
	to receive a status update		tomact your dedicated Procurement Australia
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#### **ATTACHMENT 3**

CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
		Prenax PL	
		Thorpe-Bowker	
		Zagreb Croatian Bookshop	
1504/0105	Lubricants & Associated	l Services	30/04/2015
		Castrol Australia P/L	
		Gulf Western Premium Quality Lubricating Oils	
212/0503	Mobile Garbage Bin		31/01/2014
		Mastec Australia P/L	
		Sulo MGB Australia P/L	
		Transpacific Superior Pak P/L	
306/0401	Mowing/Turfcare Small	Plant and Gardening equipment	31/08/2013
	Horticultural & Motorised	Construction Equipment Allpower Industries P/L	
		Mt Waverly Mowerpower	
	Mowing/Turfcare Equipm	ent	
		AGCO Australia Ltd	
		Allpower Industries P/L	
		John Deere Limited	
		Kubota Tractor Australia P/L	
		Mt Waverly Mowerpower	
		New Holland Agriculture	
		Toro Australia Group Sales P/L	
	Servicing and Repairs		
		Allpower Industries P/L	
		Atlas Copco Construction Equipment Australia	
		Mt Waverly Mowerpower	
	Small Plant and Machine	Atlas Copco Construction Equipment Australia	
		Komatsu Australia P/L	
		Semco Equipment Sales	
		William Adams P/L	
		Wirtgen Australia P/L	
	Spare Parts	Will Gell Australia 17/L	
	Spare Faits	Allpower Industries P/L	
		Atlas Copco Construction Equipment Australia	
		Mt Waverly Mowerpower	

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Page 10 of 20

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#### **ATTACHMENT 3**

CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
1411/0830	Office Furniture, Library Furniture, Shelving and White Goods (Electrical Consumer		31/05/2015
	Desks, Workstations, Ta		
		Eastern Commercial Furniture P/L	
		Gregory Commercial Furniture P/L	
		IntraSpace	
		OfficeMax Australia Limited	
		Queensland Library Supplies P/L	
		Raeco	
		Staples Australia P/L	
	Library Shelving & Asso		
		Dexion Office	
		Gregory Commercial Furniture P/L	
		IntraSpace	
		OfficeMax Australia Limited	
		Queensland Library Supplies P/L	
		Raeco	
		Staples Australia P/L	
	Seating		
		Eastern Commercial Furniture P/L	
		Gregory Commercial Furniture P/L	
		IntraSpace	
		Mark Perry P/L	
		OfficeMax Australia Limited	
		Queensland Library Supplies P/L	
		Raeco	
		Staples Australia P/L	
	Storage Cabinets and U		
		Dexion Office	
		Eastern Commercial Furniture P/L	
		Gregory Commercial Furniture P/L	
		IntraSpace	
		OfficeMax Australia Limited	
		Queensland Library Supplies P/L	
		Staples Australia P/L	
	White Goods & Electrica		
		OfficeMax Australia Limited	
		Sharp Corporation of Australia	

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Page 11 of 20

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#### **ATTACHMENT 3**

CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
1212/0104	One Card (Supply of Fue	ls at Retail Outlets)	31/01/2014
	Biodiesel Derivative Blend	ds	
		BP Australia P/L	
		Wright Express Australia P/L	
	Diesel		
		BP Australia P/L	
		Wright Express Australia P/L	
	E10		
		BP Australia P/L	
		Wright Express Australia P/L	
	LPG Autogas		
		BP Australia P/L	
		Wright Express Australia P/L	
	ULP Deliverables		
		BP Australia P/L	
		Wright Express Australia P/L	
1308/1001	Paint and Graffiti Removal Services		31/01/2014
	Graffiti Removal Services		
		Kleenit Victoria	
		Urban Maintenance Systems P/L	
		Workzone	
	Paints & Associated Serv	ices	
		Dulux Australia	
		PPG Architectural Coatings P/L	

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Page 12 of 20

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manager to receive a status update.

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Northern NSW Area Manager

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CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
1405/0827	Photocopiers, Printers &	Associated Products & Services	30/06/2014
	Associated Services		
		Canon Australia Pty Ltd	
		Fuji Xerox Australia P/L	
		Konica Minolta Business Solutions Australia P/L	
		Ricoh Australia P/L	
		Toshiba (Australia) P/L	
	Card Printers / Readers a	and Associated Software Bear Solutions (Australasia) P/L	
		Canon Australia Pty Ltd	
		Fuji Xerox Australia P/L	
		Ricoh Australia P/L	
		Sharp Corporation of Australia P/L	
	Leasing and Rental		
	6.5	Canon Australia Pty Ltd	
		Fuji Xerox Australia P/L	
		Konica Minolta Business Solutions Australia P/L	
		Ricoh Australia P/L	
		Sharp Corporation of Australia P/L	
		Toshiba (Australia) P/L	
	Pay by Copy and Pay by	Click	
		Canon Australia Pty Ltd	
		Fuji Xerox Australia P/L	
		Konica Minolta Business Solutions Australia P/L	
		Ricoh Australia P/L	
		Sharp Corporation of Australia P/L	
		Toshiba (Australia) P/L	
	Photocopier & Multifuncti	onal Devices, Consumables & Maintenance Services	
		Canon Australia Pty Ltd	
		Fuji Xerox Australia P/L	
		Konica Minolta Business Solutions Australia P/L	
		Ricoh Australia P/L	
		Sharp Corporation of Australia P/L	
		Toshiba (Australia) P/L	
	Printers & Scanning Devi	ces, Consumables and Maintenance Services Canon Australia Pty Ltd	
		Fuji Xerox Australia P/L	
		Konica Minolta Business Solutions Australia P/L	
		Ricoh Australia P/L	
		Sharp Corporation of Australia P/L	
	Software Solutions		
		Bear Solutions (Australasia) P/L	
		Canon Australia Pty Ltd	
		Fuji Xerox Australia P/L	
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#### **ATTACHMENT 3**

CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
		Konica Minolta Business Solutions Australia P/L	
		Ricoh Australia P/L	
		Sharp Corporation of Australia P/L	
		Toshiba (Australia) P/L	
1503/1021	Planning, Design & Engineering	ng / Civil Consultancy Services	31/05/2015
	Engineering / Civil Consultancy	Services	
		Equity Justice Access	
		MWH Australia P/L	
		Omnilink P/L	
		Pitt & Sherry (Operations) P/L	
		Planright Australasia P/L	
		PTV Asia-Pacific	
		SMEC Australia P/L	
		TGM Group P/L	
		Tomkinson Group	
		Traffix Group P/L	
		URS Australia P/L	
		Woolacotts Consulting Engineers P/L	
		Wright Barrat	
	Planning & Design Consultancy Services		
	,	Equity Justice Access	
		MWH Australia P/L	
		Pitt & Sherry (Operations) P/L	
		Planright Australasia P/L	
		Rob Pickett Design	
		SMEC Australia P/L	
		Sweett Group	
		TGM Group P/L	
		Tomkinson Group	
		URS Australia P/L	
		Woolacotts Consulting Engineers P/L	
		Wright Barrat	
1109/0616	Printing Services & Distribution	To the second se	30/09/2013
	Printing Services & Distribution Service Print Management Systems		00/00/2010
	managomoni oyatoma	Forms Express	
		Lanes Laser Printers P/L	
	Printing Services		
		Forms Express	
		Highlight Printing	

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Page 14 of 20

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**Sydney Office** PO Box 4403 Lake Haven, NSW 2263 **Andy Norton** Northern NSW Area Manager Mobile: 0412 396 698 Email: anorton@paltd.com.au

#### **ATTACHMENT 3**

CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
1404/1018	RC Pipes, Grates, Covers and Associated Services		31/05/2014
	Access Covers, Grates and Associated Products Road Safety Grating		
	Rocla Pipeline Products		
	Reinforced Concrete Pipes and Associated Products Rocla Pipeline Products		

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Thursday, 4 April 2013

Page 15 of 20

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CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
1410/0618	Recruitment Training and	Associated Services	31/12/201
	Career Transition and Outp	placement	
		Beilby Corporation P/L	
		Chandler Macleod	
		Drake Australia P/L	
		External Management Consulatants	
		Hoban Recruitment	
		Hudson Global Resources (Aust) P/L	
		Mercury Search and Selection	
		Randstad P/L	
		Regent Recruitment	
	Coaching and Mentoring		
		Australian Institute of Management	
		Beilby Corporation P/L	
		Chandler Macleod	
		Drake Australia P/L	
		External Management Consulatants	
		Hoban Recruitment	
		Hudson Global Resources (Aust) P/L	
		Randstad P/L	
		Regent Recruitment	
		Tanner James Management Consultants P/L	
	Executive Recruitment		
		Adecco	
		All Staff Australia P/L	
		Auslink Consulting Group P/L	
		Beilby Corporation P/L	
		Chandler Macleod	
		Design & Build Recruitment Trust P/L	
		Drake Australia P/L	
		Hays Specialist Recuitment (Australia) P/L	
		Hudson Global Resources (Aust) P/L	
		Jo Fisher Executive P/L	
		MEGT Australia Ltd	
		Mercury Search and Selection	
		Quest Personnel	
		Randstad P/L	
		Regent Recruitment	
		Six Degrees Executive	
		Skilled Group Limited	
	Permanent Recruitment		
		Adecco	
		All Staff Australia P/L	
© Your PA Procu	rement Australia 2013	Thursday 4 April 2012	Page 16 of 20
This document is		Thursday, 4 April 2013 month. For contracts close to expiry, please c	
of the second se	ey Office	Andy Norton	Marea Getsios
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Lake I	naven, NSW 2263	Email: anorton@paltd.com.au	Email: mgetsios@paltd.com.au



CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRE
		Auslink Consulting Group P/L	
		Beilby Corporation P/L	
		Chandler Macleod	
		Design & Build Recruitment Trust P/L	
		Drake Australia P/L	
		Hays Specialist Recuitment (Australia) P/L	
		Hoban Recruitment	
		Hudson Global Resources (Aust) P/L	
		MEGT Australia Ltd	
		Mercury Search and Selection	
		Quest Personnel	
		Randstad P/L	
		Regent Recruitment	
		SCO Recruitment	
		Six Degrees Executive	
		Skilled Group Limited	
	Temporary Recruitment	* V	
		Adecco	
		All Staff Australia P/L	
		Auslink Consulting Group P/L	
		Chandler Macleod	
		Design & Build Recruitment Trust P/L	
		Drake Australia P/L	
		Hays Specialist Recuitment (Australia) P/L	
		Hoban Recruitment	
		McArthur Management Services	
		MEGT Australia Ltd	
		Mercury Search and Selection	
		Quest Personnel	
		Randstad P/L	
		Regent Recruitment	
		SCO Recruitment	
		Six Degrees Executive	
		Skilled Group Limited	
	T-1-1	Work Solutions (Melb) P/L	
	Training	Auslink Consulting Group P/L	
		Australian Institute of Management	
		Beilby Corporation P/L	
		Chandler Macleod	
		Drake Australia P/L	
		External Management Consulatants	
		Hoban Recruitment	
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This document is up		Thursday, 4 April 2013 month. For contracts close to expiry, please co	
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#### **ATTACHMENT 3**

CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
		Hudson Global Resources (Aust) P/L	
		Skilled Group Limited	
		Tanner James Management Consultants P/L	
1407/0316	Road Signs and Associated S	Services	31/08/201
	Installation, Maintenance & Repairs		
		Artcraft P/L	
		Danthonia Designs	
		De Neefe Signs P/L	
		RMS	
	Road Signs & Accessories		
		Artcraft P/L	
		Danthonia Designs	
		De Neefe Signs P/L	
		RMS	
	Work Zone & Associated Prod		
		Artcraft P/L	
		De Neefe Signs P/L	
		Dura-Post	
		RMS	
1409/0828	Sanitary / Hazardous Waste & Medical Consumables		30/09/2014
	Hazardous Waste Services		
		Transpacific Cleanaway P/L	
	Hygiene Products & Services	Transpacific Cleanaway P/L	
	Medical Consumables	Transpacine Cleanaway F/L	
	Wedical Consumables	Thermo Fisher Scientific Australia P/L	
	Sharp Containers		
		Transpacific Cleanaway P/L	
1208/0824	Stationery, Office Machines, IT Consumables & Copy Paper		31/10/2013
	Copy Paper & Non Printed Envelopes		
		Fuji Xerox Australia P/L	
		Maxim Office Group	
		Staples Australia P/L	
	IT Consumables		
		Staples Australia P/L	
		Toner Express	
	Office Machines	CLES THE	
		GBC Australia	
		Staples Australia P/L	
	Stationery Supplies	Mayim Office Croup	
		Maxim Office Group	
		Staples Australia P/L	

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Thursday, 4 April 2013

Page 18 of 20

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#### **ATTACHMENT 3**

CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
1405/0829	Telecommunication Pro	ducts and Services	30/05/2014
	Conference Call Services		
		Premiere Global Services	
1305/0216	Tyres & Batteries		31/07/2013
	Batteries		
		Beaurepaires	
		Century Yuasa Batteries	
		Exide Batteries & Marshall Batteries	
	Tyres and Tubes		
		Beaurepaires	
		Bridgestone Australia Ltd	
		Toyo Tyres & Rubber Australia Ltd	
		Tyres4U	
		Yokohama Tyres Australia P/L	
405/0214	Vehicle Procurement, Le	easing and Disposals	30/06/2014
	Disposals		
		Manheim P/L	
		Pickles Auctions P/L	
	Leasing		
		Custom Fleet	
		Porter Plant	
		Summit Auto Lease Australia P/L	
		Toyota Fleet Management	
	Vehicle Procurement		
		Honda Australia P/L	
		Inchcape Automotive (Volkswagen)	
		Inchcape Automotive Retail (Subaru Melbourne)	
		Kia Motors Australia P/L	
		Peugeot Automobiles Australia	
		Ssangyong Motors Australia	
		Suzuki Australia P/L	

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Thursday, 4 April 2013

Page 19 of 20

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#### **ATTACHMENT 3**

CONTRACT NO	DESCRIPTION	CONTRACTOR	EXPIRES
1212/0104B	Vendors Fuel Card (Suj	oply of Fuels at Retail Outlets)	31/01/2014
	Biodiesel Derivative Ble	nds	
		BP Australia P/L	
		Caltex Australia Petroleum P/L	
	Diesel		
		BP Australia P/L	
		Caltex Australia Petroleum P/L	
	E10		
		BP Australia P/L	
		Caltex Australia Petroleum P/L	
	LPG Autogas		
		BP Australia P/L	
		Caltex Australia Petroleum P/L	
	<b>ULP Derivatives</b>		
		BP Australia P/L	
		Caltex Australia Petroleum P/L	

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Page 20 of 20

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### **ATTACHMENT 4**

### **Preferred Suppliers (NSROC Arrangements)**

### 1. Asphalt

Downer Edi Boral

### 2. General hardware

Bakers/Blackwoods

### 3. Turf, supply, supply and lay

Grech's Turf Supplies Hi Quality Turf Qualturf Pty Ltd

### 4. Street signs, road signs and associated hardware

**RMS** Roadsigns



#### **ATTACHMENT 5**

### NSW State Government Preferred Provider options through PROCUREPOINT

### **Preamble (taken from Procurepoint website)**

Better buying solutions for agencies are available through the use of NSW Government contracts and systems that provide ready access to currently approved suppliers or sourcing pathways for new goods and services requirements.

NSW Government contracts are the principal method by which goods and services are made available to NSW Government buyers. These contracts are 'panel' or 'standing offer' arrangements, where one or more suppliers of similar goods or services are appointed to supply to government under each contract. The goods and services currently available on contract, including ICT services, can be found in <u>eCatalogues</u>.

A ready solution for seeking quick quotes from pre-registered suppliers is available through an increasing number of Prequalification Schemes. Buyers can access services provided under these schemes with the knowledge that suppliers have already been through an extensive assessment process. Schemes are currently in place for performance and management services, executive search services and for engaging independent audit and risk committee members. Further schemes are being established for ICT, printing, contingent labour and other services in the near future. Suppliers can learn more and prequalify to provide services at prequalification schemes.

### Range of Providers utilised through Procurepoint

### **Light Fleet**

Holden

Ford

Hyundai

Toyota

Isuzu

Iveco

#### **Servers and Associated Hardware**

Dell

IBM

Hewlett Packard

Cisco

### **Fuel and Oil Products**

Caltex