



## STAFF REPORT ACTION REQUIRED

### Traffic Control Signal Study – Guildwood Parkway and Rowatson Road

<b>Date:</b>	May 31, 2011
<b>To:</b>	Scarborough Community Council
<b>From:</b>	Director, Transportation Services, Scarborough District
<b>Wards:</b>	Ward 43 – Scarborough East
<b>Reference Number:</b>	P:\2011\Cluster B\TRA\Scarborough\sc1170 D09-3266497, D11-4179195 – Guildwood Rowatson tcs

#### SUMMARY

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The purpose of this report is to review the feasibility of installing traffic control signals at the intersection of Guildwood Parkway and Rowatson Road.

It is recommended that traffic control signals not be installed at this intersection.

#### RECOMMENDATIONS

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##### Transportation Services recommends that:

1. City Council not approve the installation of traffic control signals at the intersection of Guildwood Parkway and Rowatson Road.
2. City Council not pass or amend the appropriate by-law(s) accordingly.

##### Financial Impact

There is no financial impact associated with the staff recommendations contained within this report; however, the financial cost of installing new traffic control signals would be approximately \$150,000.00 should an installation be approved. Funding for these traffic control signals is not in budget and not available in the Transportation Services Division's Capital Works Budget under Project No. CTP711-01 at this time.

## **ISSUE BACKGROUND**

Further to a request from Councillor Paul Ainslie on the behalf of a constituent, Transportation Services staff reviewed the feasibility of installing pedestrian crossing protection controls at Guildwood Parkway and Rowatson Road.

Traffic control signal and pedestrian crossover studies were conducted at this location on May 4, 2009 and the technical justifications, or warrants, for these devices were not met.

## **COMMENTS**

Several characteristics describing the subject intersection of Guildwood Parkway and Rowatson Road include:

- Guildwood Parkway is a four lane minor arterial road with a seven metre grass median separating two eastbound lanes from two westbound lanes.
- Guildwood Parkway has a posted speed limit of 50 km/h and an approximate traffic volume of 5,200 vehicles per day.
- Rowatson Road is a two lane local road with an unposted speed limit of 50 km/h.
- The signalised intersection of Guildwood Parkway and Livingston Road is located approximately 150 metres to the east of Guildwood Parkway and Rowatson Road.
- The intersection of Guildwood Parkway and Livingston Road has good sight lines for approaching vehicles and adequate gaps in the traffic flow along Guildwood Parkway.
- Staff noted that the majority of pedestrians appeared confident and comfortable when crossing Guildwood Parkway and Rowatson Road. The wide grassed centre median provides pedestrians with a safe refuge area that affords pedestrians the opportunity to cross only two lanes of traffic at a time.
- Residential homes are located on both sides of Rowatson Road. On the south side of Guildwood Parkway at Rowatson Road is an assortment of commercial units within the Guildwood Parkway Plaza.
- Sidewalks are located on both sides of Guildwood Parkway at Rowatson Road.
- Toronto Transit Commission bus stops for both east/westbound travel are located on Guildwood Parkway in proximity to the intersection of Guildwood Parkway and Rowatson Road.

### **Pedestrian Crossover Warrant Study**

A pedestrian crossover warrant study was conducted and the following warrant compliance results were obtained.

Pedestrian Crossover Warrant at Guildwood Parkway and Rowatson Road	Compliance Level May 4, 2009
Warrant 1: Pedestrian Volume	69%
Warrant 2: Pedestrian Delay	185%

To support the installation of a pedestrian crossover, both the Pedestrian Volume and Pedestrian Delay Warrant, must be satisfied to the extent of 100 percent. During the eight hour study period a total of 184 pedestrians were observed crossing at this location. Of the total pedestrian crossings 176 of those pedestrians experienced delays of greater than 10 seconds when crossing Guildwood Parkway at Rowatson Road.

### **Traffic Control Signal Warrant Study**

Transportation Services staff also conducted a Traffic Control Signal Warrant Study at the intersection of Guildwood Parkway and Rowatson Road. Using traffic volumes recorded over the peak eight hours of a typical weekday, the following warrant compliance results were obtained.

Traffic Control Signal Warrant at Guildwood Parkway and Rowatson Road	Compliance Level May 4, 2009
Minimum Vehicular Volume	35%
Delay To Cross Traffic	79%
Collision Hazard	20%

For traffic control signals to be numerically justified, one of the “Minimum Vehicular Volume”, “Delay to Cross Traffic” or "Collision Hazzard" warrants must be 100 percent satisfied, or the first two warrants must be at least 80 percent satisfied. Our review of the Collision Hazard is based on the previous three-year (2008 to 2010) collision history.

As outlined in the above tables, neither the traffic volume nor the collision history satisfies the requirements to install traffic control signals at this intersection at this time.

The Toronto Transit Commission has been consulted and concurs with the finding that traffic control signals not be installed.

Based on the above-mentioned traffic study results, traffic control signals are not recommended at this time.

## **CONTACT**

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## **SIGNATURE**

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## **ATTACHMENTS**

1. Location Plan (Traffic Control Signal Study – Guildwood Parkway at Rowatson Road)