



# City of Richmond

## Report to Committee

**To:** Public Works and Transportation Committee

**Date:** March 29, 2010


**From:** Victor Wei, P. Eng.  
Director, Transportation

**File:** 10-6450-09-01/2010-  
Vol 01

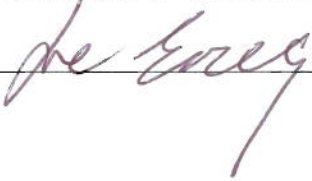
**Re:** **PROPOSED ON-STREET PARKING RESTRICTIONS IN BURKEVILLE**

### Staff Recommendation

1. That Option 1, as described in the attached report, to address traffic safety and street parking concerns in the Burkeville area be approved and staff be directed proceed with its immediate implementation.
2. That per Option 4, as described in the attached report, staff be directed to work with Coast Mountain Bus Company to re-introduce bus service to Burkeville and that the use of Airport Road (southbound only) for such service be endorsed.

  
Victor Wei, P. Eng.  
Director, Transportation  
(604-276-4131)

### FOR ORIGINATING DEPARTMENT USE ONLY

ROUTED TO:		CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Engineering .....	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
Roads & Construction ..... <i>Verbal</i> .....	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
Community Bylaws .....	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
Fire Rescue .....	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
RCMP .....	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
Recreation .....	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
<b>REVIEWED BY TAG</b>		YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	<b>REVIEWED BY CAO</b> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>

## Staff Report

### Origin

A number of residents in Burkeville have expressed concerns regarding traffic safety and on-street vehicle parking as a result of the daily influx of students who attend the BCIT Aerospace Centre located on Russ Baker Way. Richmond Fire-Rescue has also expressed concerns with respect to safety while training exercises are in progress and/or in the event of an emergency at No. 4 Fire Hall as students en route to/from BCIT walk through the fire hall site via the existing pedestrian footbridge.

This report presents the findings of a recent area resident survey to determine the extent of the traffic safety and on-street parking concerns and proposes measures to discourage BCIT students from parking their vehicles in the Burkeville neighbourhood.

### Analysis

#### 1. Existing Traffic Conditions

Burkeville is an isolated community bounded by Miller Road, Russ Baker Way and Vancouver International Airport (YVR). As the neighbourhood has no through routes, typically all traffic entering this community is comprised of area residents. A 30 km/h speed limit within the Burkeville area subdivision has been in place since 1998.

The BCIT Aerospace Centre campus opened on Sea Island in 2007. Parking is provided on site and pay parking is in effect 6:00 am to 10:00 pm as detailed in the table. However, some students park their vehicles in nearby Burkeville, generally along Airport Road and Lancaster Crescent, which have the following characteristics:

Category	Cost
Vehicles	\$5.50/day
Motorcycles	\$5.50/day
Student Lot with E-Permit	
• Weekly (Monday-Friday)	\$22.50/wk
• Daily	\$5.85/day
Visitors (minimum of 1 hour)	\$3.00/hr max \$8.50/day

- Airport Road: a 7.4 m wide two lane local roadway with gravel shoulders, grass boulevards and no adjacent residential properties on either side. This roadway is also adjacent to a neighbourhood park and serves as a collector road within the Burkeville area; and
- Lancaster Crescent: a 4.7 m wide one way local roadway with gravel shoulders, grass boulevards, ditches, and residential properties only on the east side.

As a result of the weekday influx of students from the BCIT campus, area residents have raised the following traffic-related concerns:

- vehicle speeding and driving the wrong way on one-way roads;
- vehicle congestion on the streets and overcrowding of on-street parking;
- lack of on-street parking for residents;
- damage to grass boulevards due to parked vehicles; and
- potential traffic safety conflicts between emergency vehicles and pedestrians (including students) walking through the fire hall property.



## 2. Vehicle Speed & Traffic Volume Survey

Staff recently conducted a traffic speed/volume study on Airport Road to determine the extent of any problems. The results indicate that daily traffic volumes for the area are well below typical volumes for local roadways<sup>1</sup> with an annual average daily traffic volume of 295 vehicles and peak volumes of:

- 36 vehicles southbound between 5:00 pm and 6:00 pm; and
- 36 vehicles northbound between 3:00 pm and 4:00 pm.

However, the data regarding vehicle speeds indicate a speeding problem at this location with the average speeds for southbound and northbound being 44 km/h and 51 km/h respectively, which exceeds the posted speed limit of 30 km/h through this area. Staff will request that RCMP conduct regular enforcement on this section of roadway as their schedule allows.

## 3. Proposed Options to Address Traffic Safety Concerns

Staff have developed the following options to address the traffic safety concerns identified by both Burkeville residents and Fire-Rescue personnel.

### Option 1: Introduction of On-Street Parking Signage & Restrictions (Recommended)

Parking restriction signage would be installed at the entrances to the Burkeville area (i.e., Airport Road and Hudson Avenue) advising that, per Traffic Bylaw 5870, a 3-hour maximum parking time limit is in effect between 8:00 am and 6:00 pm on streets abutting any residential or commercial premise, unless such premises are the property or residence of such person.

This option would be applicable to all streets in Burkeville and would deter student parking intrusions into the neighbourhood as well as minimize any impact on local residents and/or their visitors. With this option, traffic enforcement would occur on a complaint basis whereby if a resident finds a vehicle parked in front of his/her house, he/she may contact Community Bylaws for traffic violation enforcement (note that a resident cannot file a complaint regarding a vehicle parked in front of someone else's house). If available, a Bylaw Enforcement officer would be dispatched to chalk/note the vehicle and follow-up to check for compliance to the 3-hour parking restriction limit.

As some streets in Burkeville do not have any residences along them, Option 1 would also include the following:

- No Parking Any Time: no on-street vehicle parking on the west side of Lancaster Crescent from Hudson Avenue to Wellington Crescent and on the east side of Lancaster Road for the segment of roadway without residences; and
- 2-Hour Maximum Parking: on Airport Road from Catalina Crescent at the north end to Wellington Crescent at the south end during Monday to Friday, 8:00 am to 5:00 pm.

---

<sup>1</sup> Per the Transportation Association of Canada (TAC), roadways are classified as local when the annual average daily traffic volume is less than 1,000 vehicles.

**Attachments 1 and 2** detail respectively the proposed locations of the signs and their text. To supplement the above recommended option, other measures were also considered which included:

- **Option 2:** removal of the pedestrian foot bridge between the old Fire Hall property and the new Fire Hall in order to address the safety concerns of Richmond Fire-Rescue;
- **Option 3:** removal of the candy store at the new Fire Hall to prevent residents from impacting safety on the site;
- **Option 4:** re-establishment of public transit service on Airport Road (southbound only) using the existing C92 community shuttle service or a future conventional bus service;
- **Option 5:** improve the roadway shoulder on both sides Airport Road for vehicle parking between Handley Avenue and Wellington Crescent; and
- **Option 6:** implementation of traffic calming measures, such as speed humps, along Airport Road.

#### 4. Neighbourhood Survey & Results

Per the City's guidelines for implementing traffic safety measures in any residential neighbourhood, staff conducted a survey of the area residents to determine if there was majority (approximately 2/3 or greater) support for the proposed options. Of the 323<sup>2</sup> survey letters mailed out, 144 replied for a 44.6% response rate. Of those who replied, 129 (90%) were in favour of Option 1 with 15 (10%) opposed. The table below summarizes the returned survey results for each proposed option.

Option	Proposed Measures	In Favour
1	<ul style="list-style-type: none"> <li>• Parking restriction signage at entrances to Burkeville</li> <li>• Enforcement of parking restrictions on complaint basis</li> <li>• Parking restriction signage on Airport Road and Lancaster Crescent</li> </ul>	90%
2	<ul style="list-style-type: none"> <li>• Removal of pedestrian footbridge</li> </ul>	27%
3	<ul style="list-style-type: none"> <li>• Removal of the candy store at the Fire Hall</li> </ul>	14%
4	<ul style="list-style-type: none"> <li>• Re-establish transit service on Airport Road</li> </ul>	69%
5	<ul style="list-style-type: none"> <li>• Roadway shoulder improvements on Airport Road</li> </ul>	19%
6	<ul style="list-style-type: none"> <li>• Traffic calming (e.g., speed humps) on Airport Road</li> </ul>	36%

#### 5. Traffic Safety Recommendations

Staff recommend the implementation of Option 1 (new parking restriction signage and enforcement), as the feedback from residents indicates a majority support. As residents also expressed majority support for the re-establishment of transit service on Airport Road (southbound only) per Option 4, staff will work with Coast Mountain Bus Company (CMBC) regarding the introduction of transit service for the Burkeville area via the re-routing of the existing C92.

<sup>2</sup> For some addresses, letters sent to both the occupant and the owner.



### **Financial Impact**

The estimated cost to install signage complete with associated hardware in the Burkeville area is \$8,000. The cost for this project can be funded from the approved 2010 Public Works Minor Capital - Traffic (Account: 1541-40-000-TRAFC-0000-40118).

### **Conclusion**

Based on the feedback expressed by local residents in a recent survey, staff recommend that Option 1 be implemented in the Burkeville immediately. The implementation of this option would effectively address the concerns raised by Burkeville residents related to the daily intrusion of student parking within this area. Upon completion of the proposed parking restrictions, staff will continue to monitor the traffic conditions in the area and consult with area residents on an on-going basis to determine if there is a need for any further actions in the Burkeville area. Staff will also work with CMBC to re-establish a bus service in Burkeville via re-routing the existing C92 along Airport Road (southbound only).



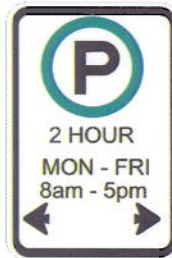
Bill Dhaliwal  
Traffic Technician II  
(604-276-4210)  
BD:bd

PROPOSED BURKEVILLE ON-STREET PARKING PLAN





Proposed Signage at Entrances to Burkeville



Between Catalina Crescent and Wellington Crescent



Between Hudson Avenue and Wellington Crescent

Proposed signage on Airport Road and Lancaster Crescent