



# Calculating Schedule C Benefits

19th. Avenue (East) Bridge (B19)

### Definitions

input field calculated field (no data entry required) AADT = Average Annual Daily Traffic RCR = Ride Comfort Rating MJ = mega joules

#### Assumptions

- that a road closure will occur for the duration of the project

- that new technologies will be used to reduce the number of days a road closure is required

#### Details

length of road closed to traffic length of detour route for bridge closure estimated # of days road closed to traffic (conventional construction)

1.92	km
5.5	km
150	days

**32**% %

> % 0

8 RCR

2

0 %

428.8

1000 AADT current traffic volume (actual or estimated) % light trucks (pickup) % trucks (heavy truck) % trucks (tractor/trailer) % trucks (B trains)

pavement smoothness (of road section to be closed)

Current CO<sub>2</sub> Emissions (before road closed to traffic)

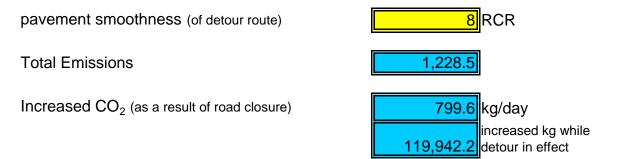
**Total Current Emissions** 

NOTE: Based on Natural Resources Canada - 2.36Kg/L CO<sub>2</sub> Gasoline, 2.73kg/L CO<sub>2</sub> Diesel and Transport Canada -**Company Average Fuel Consumption 2004** 





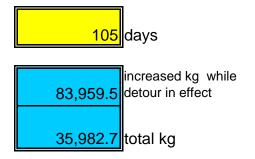
CO<sub>2</sub> Emissions (as a result of the road closure)



## Benefits of Using New Technologies

using technologies that reduces the number of days a road closure is required reduces emissions

estimated # of days road closed to traffic (new	
technologies used for construction)	



Reduced  $CO_2$  (a result of using of technologies that reduce the number of days a road closure is required)

Increased CO<sub>2</sub> (as a result of road closure)