

How to Measure, Track, and Report Your Impact

Workshop Exercise

What a year! You just got your licence this summer and have access to a 2010 automatic Hyundai Accent. You are taking advantage of this situation and every school day drive (only) yourself to White Oaks Secondary School and home to Towne Boulevard in Oakville.

After attending the Green Un-Conference you decide that you'd like to challenge yourself to drive-less to school. Here are some alternative options you explore:



Car-pooling: Doesn't work, you cannot find anyone to drive with you.



Walking: School is 3km, about a 40 minute walk away. It is a little far to walk everyday.



Biking: Not in November and December.



Transit: You check Oakville Transit's route map and sure enough the bus route and schedule work.

You decide to start your commitment on January 6, 2020 (first day of school post winter break) and go until the end of the month. To get all the information you need to quantify your impact you do some research on your car and the bus. You also keep a decent log of day-to-day actions. You note:

- Your travel mode: did you take the bus, walk or drive and
- The number of people on the bus when you do take it.

Use the attached results for your research and tracking to calculate the greenhouse gas (GHG) impact of your commitment.

GHG Emissions = Activity x Energy Intensity x Emission Factor

Calculate the Greenhouse Gas Impact of Driving Less

Step 1. Baseline

If you made no change to your behaviour, how much GHG would you produce?

Activity:

Energy Intensity:

Emissions Factor

Number of days you went to school:

Step 2. Scenario

When you implement your program, how much GHG will you produce?

Activity:

Energy Intensity:

Average people on the bus:

Number of days you went to school:

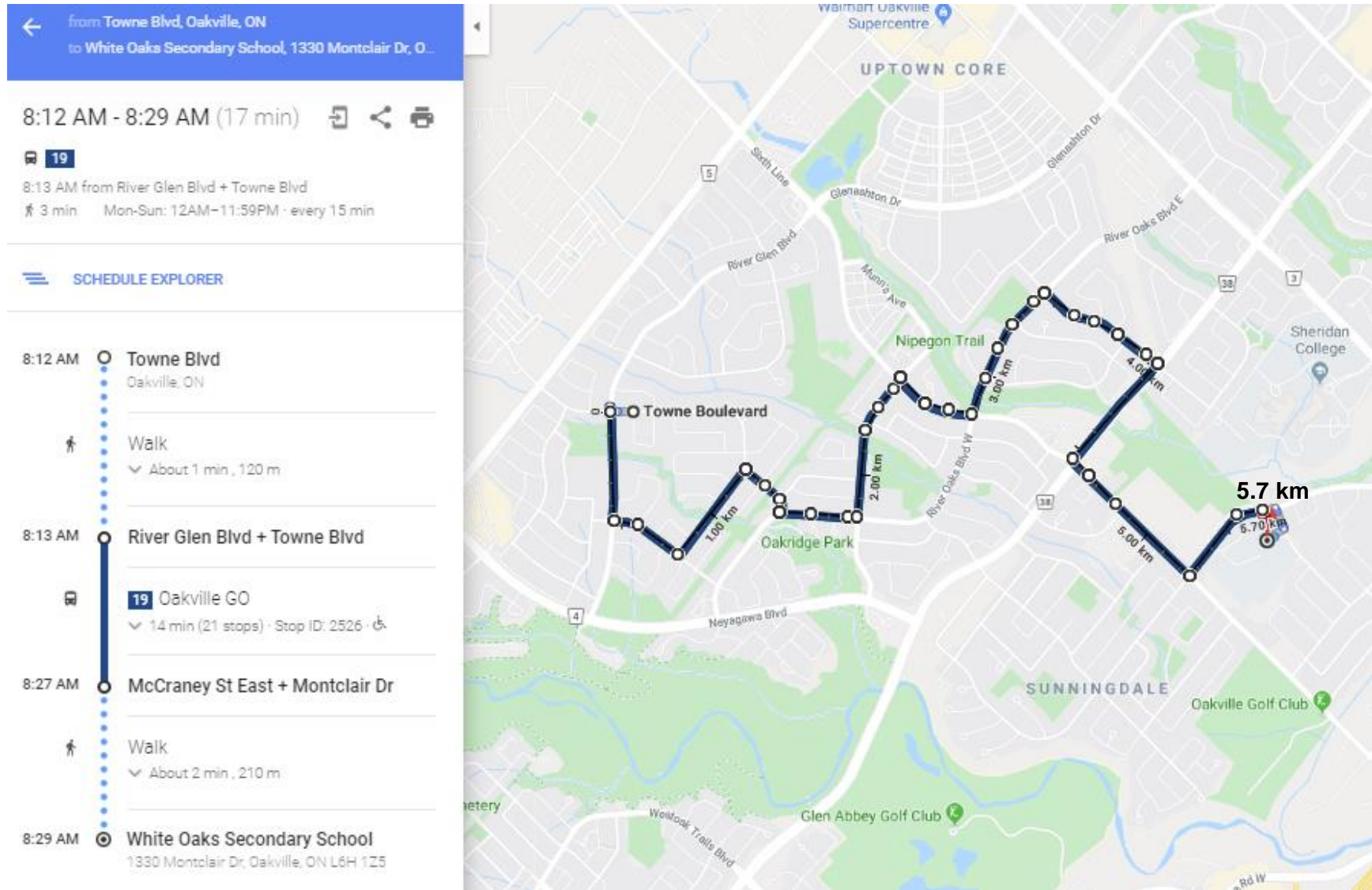
Step 3. Impact

What is the difference between the baseline and the program GHG totals?

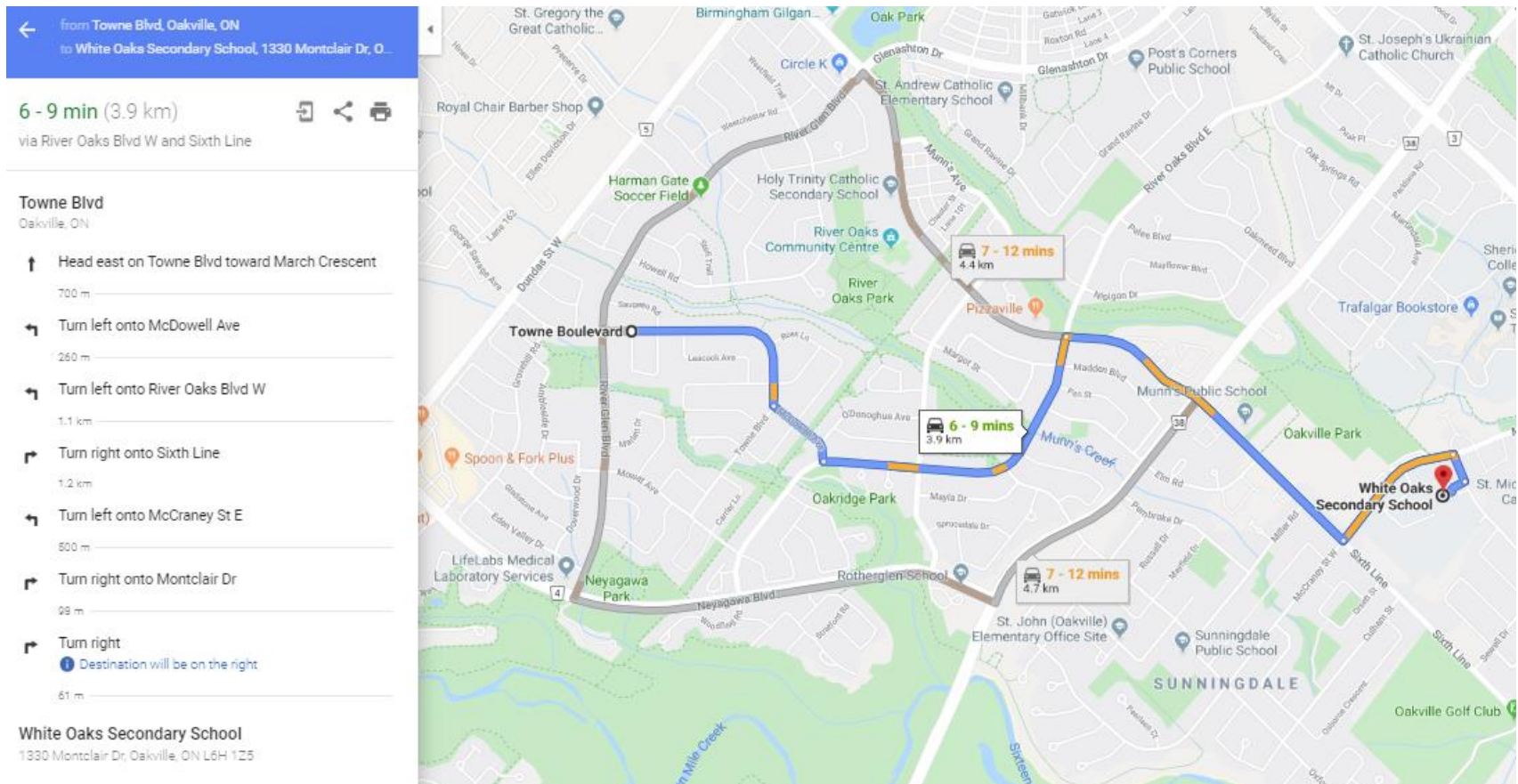
Baseline GHG – Scenario GHG = Impact GHG tonnes

Transit Route Map

Oakville Transit uses a typical diesel bus.



Typical Driving Route Map



Vehicle Specifications – Canadian Fuel Consumption Ratings Search Tool

<https://fcr-ccc.nrcan-rncan.gc.ca/en>

Search and compare

Select vehicle type:

Model year

- 2011
- 2010
- 2009
- 2008
- 2007
- 2006

Class

- All
- Two-seater
- Subcompact
- Compact
- Mid-size
- Full-size

Make

- Honda
- Hummer
- Hyundai
- Infiniti
- Jaguar
- Jeep

Model

- All
- Accent
- Elantra
- Elantra Blue
- Elantra Touring
- Genesis

Units:

Conventional/hybrid vehicles


Results 1 to 2 of 2

Select	Make & Model	Year	Class	Eng/ Cyl	Trans	Fuel	Consumption L/100 km			\$/yr	CO ₂ (g/km)	Ranking	
							City	Hwy	Comb			Class	All
<input type="checkbox"/>	Hyundai Accent	2010	C	1.6/4	M5	X	8.4	6.8	7.7	\$1,571	177	5	18
<input type="checkbox"/>	Hyundai Accent	2010	C	1.6/4	A4	X	8.8	6.6	7.8	\$1,591	179	7	22

Track Sheet - December 2019

Monday	Tuesday	Wednesday	Thursday	Friday
2 To School: Drive From School: Drive	3 To School: Drive From School: Drive	4 To School: Drive From School: Drive	5 To School: Drive From School: Drive	6 To School: Drive From School: Drive
9 To School: Drive From School: Drive	10 To School: Drive From School: Drive	11 To School: Drive From School: Drive	12 To School: Drive From School: Drive	13 P.A. Day
16 To School: Drive From School: Drive	17 To School: Drive From School: Drive	18 To School: Drive From School: Drive	19 To School: Drive From School: Drive	20 To School: Drive From School: Drive
23 	24 	25 	26 	27 
29 	30 	31 		

Tack Sheet - January 2020

Monday	Tuesday	Wednesday	Thursday	Friday
				
6 To School: Bus (9ppl) From School: Bus (9ppl)	7 To School: Bus (11ppl) From School: Bus (?ppl)	8 To School: Bus (3ppl) From School: Walk	9 To School: Bus (20ppl) From School: Bus (9ppl)	10 To School: Bus (15ppl) From School: Bus (9ppl)
13 To School: Bus (20ppl) From School: Bus (5ppl)	14 To School: Bus (?ppl) From School: Bus (6ppl)	15 To School: Bus (7ppl) From School: Bus (13ppl)	16 **Snow Day**	17 To School: Bus (7ppl) From School: Bus (3ppl)
18 To School: Drive From School: Drive	19 To School: Bus (11ppl) From School: Walk	20 Sick Day	21 To School: Bus (7ppl) From School: Bus (8ppl)	22 To School: Bus (13ppl) From School: Bus (6ppl)