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**From:** Geoff Petzold [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=BFC59C9922C4478C8BFAF6D1EB9980F9-GEOFF PETZO]  
**Sent:** 2/21/2019 2:45:30 AM  
**To:** Brian Malone [/O=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=67c055668f2542418a0037674b420253-Brian Malon]  
**CC:** Alireza Hadayeghi [/O=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=bb26c740617843db9e2ccb5218728308-Alireza Had]; Soroush Salek [/O=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=01dc626381df4d28b153d3438bd35c85-Soroush Sal]  
**Subject:** Re: CIMA Assignment

Hi Brian,

Not sure. Soroush's voicemail seemed to indicate otherwise.

I'm sure if all they are after is a trend analysis that should be something cima can do.

Cheers,  
Geoff

Sent from my iPhone

On Feb 21, 2019, at 12:35 AM, Brian Malone <[Brian.Malone@cima.ca](mailto:Brian.Malone@cima.ca)> wrote:

Isn't the city just asking for an analysis of the MTO data for the 2007 to 2014 to see the data trend in those numbers? I suspect they are looking to see if there is a trend in that data and why the City was not told?

On 21 Feb 2019 12:50 p.m., Geoff Petzold <[Geoff.Petzold@cima.ca](mailto:Geoff.Petzold@cima.ca)> wrote:

Hello Soroush,

I got your voicemail today, sorry, my day kind of ran away on me.

Unfortunately, I am not able, nor comfortable, performing extrapolation on the friction values. For two reasons:

1. The traffic volumes are much higher than design, so the pavement will wear/degrade/polish much faster than under "normal conditions".
2. The friction data is from 2014 (I believe?), so extrapolation out 5 years would not be prudent.

I still think that we should recommend the City undertake a new investigation to confirm what the friction values are in today's numbers.

Sorry, I wish I could be more help.

Cheers,  
Geoff

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**From:** Soroush Salek  
**Sent:** Wednesday, February 20, 2019 10:40 AM  
**To:** Geoff Petzold <[Geoff.Petzold@cima.ca](mailto:Geoff.Petzold@cima.ca)>  
**Cc:** Alireza Hadayeghi <[ali.hadayeghi@cima.ca](mailto:ali.hadayeghi@cima.ca)>; Brian Malone <[Brian.Malone@cima.ca](mailto:Brian.Malone@cima.ca)>  
**Subject:** RE: CIMA Assignment

Hi Geoff,

Please find attached the report that Brian shared with the City a couple of weeks ago regarding the friction numbers along the RHVP. I will call you momentarily to discuss more details.

Best,

Soroush.

SOROUSH SALEK, Ph.D., P.Eng.

T 289-288-0287 ext. 6849 C 289 684-2594  
3027 Harvester Road, Suite 400 Burlington Ontario

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**From:** Geoff Petzold  
**Sent:** February-19-19 3:56 PM  
**To:** Soroush Salek <[Soroush.salek@cima.ca](mailto:Soroush.salek@cima.ca)>  
**Cc:** Alireza Hadayeghi <[ali.hadayeghi@cima.ca](mailto:ali.hadayeghi@cima.ca)>; Brian Malone <[Brian.Malone@cima.ca](mailto:Brian.Malone@cima.ca)>  
**Subject:** RE: CIMA Assignment

I would suggest that a field measurement is needed. I wouldn't feel comfortable extrapolating the numbers.

Cheers,  
Geoff

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**From:** Soroush Salek  
**Sent:** Tuesday, February 19, 2019 1:55 PM  
**To:** Geoff Petzold <[Geoff.Petzold@cima.ca](mailto:Geoff.Petzold@cima.ca)>  
**Cc:** Alireza Hadayeghi <[ali.hadayeghi@cima.ca](mailto:ali.hadayeghi@cima.ca)>; Brian Malone <[Brian.Malone@cima.ca](mailto:Brian.Malone@cima.ca)>  
**Subject:** Re: CIMA Assignment

They want to extrapolate the 2008-2014 frictions to estimate 2019 frictions. In case it is not possible we have to tell them to measure the friction on the field.

—Soroush

Sent from my iPhone

On Feb 19, 2019, at 3:52 PM, Geoff Petzold <[Geoff.Petzold@cima.ca](mailto:Geoff.Petzold@cima.ca)> wrote:

I don't think we would have any different friction numbers to give them than what they already have. Not sure exactly what they are after.

Can you clarify?

Cheers,  
Geoff

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**From:** Soroush Salek  
**Sent:** Tuesday, February 19, 2019 12:06 PM  
**To:** Geoff Petzold <[Geoff.Petzold@cima.ca](mailto:Geoff.Petzold@cima.ca)>  
**Cc:** Alireza Hadayeghi <[ali.hadayeghi@cima.ca](mailto:ali.hadayeghi@cima.ca)>; Brian Malone <[Brian.Malone@cima.ca](mailto:Brian.Malone@cima.ca)>  
**Subject:** RE: CIMA Assignment

We have to provide the City with a quote in the next couple of days. The project should be done quickly as the resurfacing tender (being prepared by CIMA) will be issued by the end of this month and the City wants to know the friction numbers before then.

--Soroush

SOROUSH SALEK, Ph.D., P.Eng.

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**From:** Geoff Petzold  
**Sent:** February-19-19 1:58 PM  
**To:** Soroush Salek <[Soroush.salek@cima.ca](mailto:Soroush.salek@cima.ca)>  
**Cc:** Alireza Hadayeghi <[ali.hadayeghi@cima.ca](mailto:ali.hadayeghi@cima.ca)>; Brian Malone  
<[Brian.Malone@cima.ca](mailto:Brian.Malone@cima.ca)>  
**Subject:** Re: CIMA Assignment

Hi Soroush,

Last I heard from Brian, he was going to be throwing some words together from our discussions ... not sure where that is at.

I could possibly help out further. What is your timeline?

Cheers,

Geoff

Sent from my iPhone

On Feb 19, 2019, at 11:56 AM, Soroush Salek <[Soroush.salek@cima.ca](mailto:Soroush.salek@cima.ca)> wrote:

Hi Geoff,

We have been approached by the City of Hamilton to undertake an analysis estimating the 2019 friction values along an urban highway based on measurements which have been done between 2008 and 2014 (data attached).

We need to provide the City with a quick quote and timeline in the next couple of days, but Brian Malone who is the CIMA's

point of contact is on vacation. I noticed that there were some back and forth correspondence between you and Brian earlier this month on the acceptable friction thresholds for the same corridor and therefore was wondering if this quick assignment is something that you can help us with.

Please let me know and I will be in touch to discuss further.

Best,

Soroush.

SOROUGH SALEK, Ph.D., P.Eng.

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3027 Harvester Road, Suite 400 Burlington Ontario

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**From:** Alireza Hadayeghi  
**Sent:** February-17-19 1:14 PM  
**To:** Soroush Salek <[Soroush.salek@cima.ca](mailto:Soroush.salek@cima.ca)>; Giovanni Bottesini <[Giovanni.Bottesini@cima.ca](mailto:Giovanni.Bottesini@cima.ca)>  
**Subject:** Fwd: CIMA Assignment

Sent from my iPad

Begin forwarded message:

**From:** "Soldo, Edward"  
<[Edward.Soldo@hamilton.ca](mailto:Edward.Soldo@hamilton.ca)>  
**Date:** February 17, 2019 at 1:08:08 PM EST  
**To:** Alireza Hadayeghi <[ali.hadayeghi@cima.ca](mailto:ali.hadayeghi@cima.ca)>, Brian Malone <[Brian.Malone@cima.ca](mailto:Brian.Malone@cima.ca)>  
**Cc:** "McGuire, Gord"  
<[Gord.McGuire@hamilton.ca](mailto:Gord.McGuire@hamilton.ca)>  
**Subject:** CIMA Assignment

Brian,

Please find attached friction information from the MTO. They undertook testing over a number of years for a portion of the RHVP.

The City would like you to review the data, undertake an analysis if possible to develop a degradation curve based on the data point for each lane, and based on that work develop a min/max range that can extrapolate a 2019 value.

This work can be added as an add on to the Roadside Safety Assessment. Would CIMA recommend that we undertake a friction test prior to the resurfacing to validate the MTO data? Would any of your recommendations be impacted by this data.

I am around this week, give me a call to discuss if you like at 905-379-7851.

Thanks

Edward Soldo, P.Eng.

Director, Transportation Operations &  
Maintenance

Public Works Department

City of Hamilton

77 James St North., Suite 400., Hamilton, ON L8R  
2K3

Phone: 905-546-2424 ext. 4622

Fax: 905-546-4473

Email: [Edward.Soldo@hamilton.ca](mailto:Edward.Soldo@hamilton.ca)

<Friction\_Test\_Red Hill Parkway\_Report.xlsm>

<RedHillValleyPkwy N1\_SMA\_DSM\_MUN.PDF>

<RedHillValleyPkwy N2\_SMA\_DSM\_MUN.PDF>

<RedHillValleyPkwy S1\_SMA\_DSM\_MUN.PDF>

<RedHillValleyPkwy S2\_SMA\_DSM\_MUN.PDF>