RED HILL VALLEY PARKWAY INQUIRY

TRANSCRIPT OF PROCEEDINGS
HEARD BEFORE THE HONOURABLE J. WILTON-SIEGEL
held via Arbitration Place Virtual
on Monday, June 20, 2022. at 9:30 a.m.

VOLUME 33

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- 1 Arbitration Place Virtual
- 2 --- Upon resuming on Monday, June 20, 2022 at
- 3 9:30 a.m.
- 4 MR. LEWIS: Good morning,
- 5 Commissioner, Counsel, Dr. Uzarowski. I would
- 6 like to proceed first with the land
- 7 acknowledgement.
- 8 I would like to open this week
- 9 of hearings by acknowledging that the City of
- 10 Hamilton is situated upon the traditional
- 11 territories of the Erie, Neutral, Huron-Wendat,
- 12 Haudenosaunee and Mississaugas. This land is
- 13 covered by the Dish With One Spoon Wampum Belt
- 14 Covenant which was an agreement between the
- 15 Haudenosaunee and Anishinaabek to share and care
- 16 for the resources around the Great Lakes. We
- 17 further acknowledge that the land on which
- 18 Hamilton sits is covered by the Between The Lakes
- 19 purchase 1792 between the Crown and the
- 20 Mississaugas of the Credit First Nation.
- 21 Many counsel appearing today
- 22 at this hearing are located in Toronto, which is
- 23 on the traditional land of the Huron-Wendat, the
- 24 Seneca, and most recently the Mississaugas of the
- 25 Credit River. Today this meeting place is still

- 1 home to many indigenous people from across Turtle
- 2 Island and I'm grateful to have the opportunity to
- 3 work on this land.
- 4 Just remind Dr. Uzarowski that
- 5 he remains under oath at this time.
- 6 DR. LUDOMIR UZAROWSKI; previously affirmed
- 7 EXAMINATION BY MR. LEWIS (cont'd):
- Q. When we left off on
- 9 Thursday we had previously talked, Dr. Uzarowski,
- 10 about your communications in May 2016 with Leonard
- 11 Taylor at Tradewind, and specifically you -- there
- was a note of yours dated May 26th, 2016 which
- 13 stated just Hamilton Leonard Taylor. Do you
- 14 recall that discussion?
- 15 A. Yes, I do.
- Q. And then you also
- 17 indicated that there was another note on that
- 18 date, May 26, 2016, which stated Hamilton, and I
- 19 advised everyone that there wasn't any note in the
- 20 productions that we were aware of, and then
- 21 afterwards counsel for Golder produced a couple of
- 22 pages from your notebooks containing both those
- 23 notes from May 26th, the second of which I
- 24 understand was inadvertently overlooked.
- 25 So, Registrar, if you could go

- 1 to -- there should be a three-page PDF I believe
- 2 was sent to you on Friday with note pages in it
- 3 titled "May 26, 2016 Dr. Uzarowski notes." If you
- 4 could go to the second image, please. I think
- 5 this was the note that we had in front of us that
- 6 you referred to last week, is that right, the
- 7 May 26, 2016 referring to Hamilton Leonard Taylor?
- 8 A. Correct.
- 9 Q. And if you go to the
- 10 third image, Registrar. And this has this
- 11 indication of Hamilton, and is that from the same
- 12 day?
- 13 A. Yes, it is.
- Q. And is that what you were
- 15 referring to in your evidence last week?
- 16 A. Yes, it is.
- 17 Q. Do you recall what it
- 18 refers to?
- 19 A. In the previous note what
- 20 it showed was number 11, Hamilton Leonard Taylor,
- 21 so it was on my list of things to do. And this
- 22 one was without number, so I think I talked to
- 23 Leonard Taylor and then just took a note Hamilton.
- 24 So I talked to him and I passed the result of this
- 25 conversation to Hamilton.

- 1 O. And the result of that
- 2 conversation was what, that you passed on, and to
- 3 whom?
- 4 A. That was Mr. Gary Moore.
- 5 It was just basically the same as -- there is no
- 6 clear correlation between the two methods of
- 7 friction testing.
- 8 MR. LEWIS: Registrar, if we
- 9 could make that exhibit.
- 10 And, Commissioner, I believe
- 11 that would be number 82.
- 12 THE REGISTRAR: Noted,
- 13 Counsel, thank you.
- 14 EXHIBIT NO. 82: Handwritten
- notes dated September 9, 2015
- 16 to January 31, 2017
- 17 BY MR. LEWIS:
- Q. Now, jumping forward, if
- 19 we could take that down and go to overview
- 20 document 8, image 62. We had left off in December
- 21 of 2017 and communications about the PSV testing
- 22 and getting the results and getting it off to
- 23 Ireland and so the forth.
- 24 So January -- if we look at
- 25 this page beginning at 165. On January 22nd, 2018

1	you received an e-π	ail from David Hein at Applied
2	Research Associates	s, also known as ARA, with the
3	subject line "Red H	Iill Valley Parkway friction
4	problem," and he wr	ote:
5		"Next time you need friction
6		testing on RHVP, let me know.
7		We have an ASTM Brakeforce
8		trailer in the Toronto area
9		every year to do testing. Hot
10		in-place recycling technology
11		'new' not even remotely as
12		Warren/Taisei was doing HIP in
13		the Ontario in the 80s, almost
14		40 years ago."
15		And then you replied in
16	paragraph 66:	
17		"Thanks for letting me know.
18		If I need it I will let you
19		know. I agree HIP is not new.
20		Who said it is new? I was
21		involved in it while working
22		for JEGEL. In the 90s Ontario
23		gave up on it and Crupi sent
24		the last HIP train to the US.
25		The technology has

- 1 significantly improved since
- 2 then."
- 3 And so there's nothing that
- 4 indicates in Mr. Hein's initial e-mail indicating
- 5 why he sent it. Do you recall any discussions
- 6 with him that prompted his e-mail on January 22nd,
- 7 2018?
- A. No, I don't. I think it
- 9 was only e-mail exchange.
- 10 Q. So the e-mail from him
- 11 was your first contact with him on this topic?
- 12 A. On this topic at that
- 13 time, yes.
- Q. You know Mr. Hein
- 15 professionally, or you knew him?
- 16 A. I know him very well. We
- 17 worked together for John Emery Geotechnical and
- 18 then we met at conferences and talk, yes.
- 19 Q. So do you know where this
- 20 e-mail initiated by -- this e-mail exchange
- 21 initiated by Mr. Hein, where that came from, why
- 22 he e-mailed you about this?
- A. No, I don't. I can only
- 24 speculate that he must've talked to the City. No,
- 25 I don't.

- 1 O. You don't know that, but
- 2 you assume that that's the case since you hadn't
- 3 told him about this; is that fair?
- A. That's correct, fair.
- Q. Okay. And his title is
- 6 "Red Hill Valley friction problem." Had you had
- 7 any discussions with him about a friction problem
- 8 on the Red Hill?
- 9 A. No, I didn't.
- 10 Q. Was Mr. Hein and ARA
- 11 working for the City at the time in 2018, do you
- 12 know?
- 13 A. No, I didn't. I assume
- 14 he did but I was not aware.
- 0. Okay. Then Mr. Hein
- 16 replied to you that afternoon, this is in
- 17 paragraph 167, enclosing a link to an article in
- 18 the Spectator dated January 15th, 2018, titled
- 19 "Scratching the Surface For Answers on Red Hill
- 20 Paving." And then he says, "Here is the link to
- 21 the article. Not very well written."
- Take that down, Registrar,
- 23 please. And then you replied in 168, "Thanks,
- 24 Dave, I haven't seen it."
- 25 Were you aware of -- you said

- 1 you weren't. Had you not read it at that point,
- 2 that article?
- A. No, I wasn't aware of it.
- Q. It sounds like -- he
- 5 says here is the link to the article. It sounds
- 6 like you had some discussion with it. He says
- 7 here's link to the article.
- 8 A. No, I didn't but this is
- 9 the way that typically Dave Hein communicates.
- 10 His sentences are always very short, so....
- 11 Q. And then if we could go
- 12 to the next page, Registrar. The article itself
- is excerpted at the next page. But in the
- 14 fifth-last paragraph on the first of the two pages
- 15 there's a reference to a fatal collision,
- 16 referring to their daughter and stepdaughter
- 17 Jordyn Hastings died in a crossover crash on the
- 18 parkway on May 5th, 2015, alongside with her best
- 19 friend Olivia Smosarski. Both girls were 19. At
- 20 that time were you aware of those fatalities
- 21 before reading this article?
- A. No, I wasn't.
- Q. Or of any others on the
- 24 Red Hill?
- A. No, no, I was not.

- 1 Q. If we could go to
- 2 image 66, Registrar. And at paragraph 181 you --
- 3 it's an indication that you received an indication
- 4 from Mr. Ward that the PSV, this was 45, and that
- 5 the report from the lab in Ireland would follow
- 6 shortly and then he e-mailed the report to you
- 7 approximately 20 minutes later.
- 8 So you received the results.
- 9 Do you recall what your reaction was at the time
- 10 to those results?
- 11 A. My reaction. I thought
- 12 it was probably lower than I anticipated, and then
- 13 I was looking for how to classify this thing and I
- 14 found that basically it was average or medium.
- 15 O. Okay. And when you say
- 16 you were looking for how to classify it, what do
- 17 you mean? Do you mean you looked at some source
- 18 materials?
- 19 A. Yeah, I look at some
- 20 technical papers. I know that I found an old
- 21 paper written by Dr. John Emery where he compared
- 22 different aggregates, I think limestone, trap rock
- 23 and steel slag, and he classified this value of
- 24 45S medium.
- 25 Q. And is that what you did

- 1 at the time when you received it or very shortly
- 2 after, or is that something you did at a later
- 3 date?
- 4 A. I don't remember exactly
- 5 on what day because I think it was between the
- 6 time that I received it and between the date of
- 7 the meeting with the City of Hamilton. When I
- 8 reported that that was medium.
- 9 Q. Okay. We'll come back to
- 10 that article later. It's also -- that article is
- 11 referenced in -- finally in your February 28th,
- 12 2019 pavement evaluation report; is that right?
- 13 A. Yes, it is.
- Q. Under that you thought --
- 15 you said that you thought the results were lower
- 16 than you were expecting?
- 17 A. Yeah, because I knew that
- 18 this aggregate was on the DSM list so -- but, you
- 19 know, it is what it is. So, you know, my point
- 20 was then what to do with it.
- Q. Right. And did you have
- 22 a view of the implications at that time?
- 23 A. It was probably somewhere
- 24 around, as I said, between this day and the
- 25 meeting that I was thinking of what to do with the

- 1 aggregate, if it was used for hot in-place
- 2 recycling, so in my opinion 45 would not be
- 3 sufficient.
- Q. Right. And then I
- 5 understand that you attended a meeting with the
- 6 City on February 23rd, 2018 at which you gave a
- 7 presentation relating to, again, new asphalt
- 8 specification for the City; is that right?
- 9 A. Yes.
- 10 Q. If we could go to
- image 67, the next page. And at paragraphs 186 to
- 12 187 -- but on February 21st Mr. Moore sent a
- 13 calendar invitation to you and Claudio Leon for a
- 14 meeting on February 23rd that was scheduled prior
- 15 to a presentation you were giving to the City that
- 16 same day to discuss new asphalt specifications,
- 17 and then you e-mailed Mr. Moore on February 22nd
- 18 requesting a meeting that day to discuss RHVP and
- 19 other aspects and then the meeting was arranged.
- 20 So do you recall, were there
- 21 two different meetings on February 23rd, or a
- 22 presentation and then a meeting?
- 23 A. No, I think it was only
- 24 that -- or a meeting or whatever. When I gave the
- 25 presentation to the audience and that was only

- 1 one, and then we -- you know, after that there was
- 2 a group of engineers -- or people that left and we
- 3 talk about hot in-place recycling and other
- 4 aspect. No, I don't recall other.
- 5 Q. Sorry, so you don't
- 6 recall what?
- 7 A. I don't recall other
- 8 meeting. I think it was the only one.
- 9 O. Okay. Sort of a
- 10 continuation of the -- you did your presentation
- 11 and then there was a continuation of it?
- 12 A. Yes, so -- yes.
- Q. I think later Mr. Becke
- 14 refers to it as a side meeting?
- 15 A. Yeah, like sort of side
- 16 meeting. So the majority of the people that
- 17 attended my presentation left and there was a
- 18 group of people -- small group of people that Mike
- 19 called -- Mr. Becke called a side meeting.
- 20 O. And do you recall who was
- 21 at -- just call it the side meeting or the second
- 22 meeting, it doesn't really matter -- do you recall
- 23 who was there?
- 24 A. I -- you know, it's
- 25 possible that there were more people than I

- 1 remember, but I think who was there. Definitely
- 2 Mr. Mike Becke, Marco Oddi, Tyler Renaud, myself.
- 3 I know this four were definitely there. It's
- 4 possible that there were maybe one or two more
- 5 people, but I'm positive this -- there were at
- 6 least this four of us.
- 7 Q. What about Mr. Moore?
- 8 You had been communicating with him about the
- 9 presentation. Do you recall if he remained for
- 10 the side meeting?
- 11 A. No, he didn't.
- Q. He left with everyone
- 13 else?
- 14 A. He left with whatever,
- 15 crowd.
- Q. So then what was the
- 17 topic of this meeting?
- 18 A. Of the side -- the side
- 19 meeting?
- Q. The side meeting, yeah.
- 21 A. It was basically just
- 22 like conversation about the concerns with -- or
- 23 concerns -- like the opinions about using hot
- 24 in-place recycling on the Red Hill Valley Parkway,
- 25 and I think at the end I also said about --

- 1 express my -- or provided my recommendation for
- 2 doing shot blasting or blasting or skidabrading.
- 3 I don't remember exactly what I said for --
- 4 friction.
- 5 Q. And so first on the
- 6 discussion about the hot in-place recycling and
- 7 opinions about it, what were the opinions that
- 8 were expressed?
- 9 A. They were concerned.
- 10 They were concerned. In particular I think
- 11 Mr. Tyler Renaud, he -- because he was more
- 12 asphalt mix person; he was quality control. So he
- 13 express his concerns. I expressed mine. So
- 14 overall there was significant concern about using
- 15 hot in-place recycling on this high speed main
- 16 road of the city.
- 17 O. What was the concern that
- 18 you expressed and then what was the concern that
- 19 Mr. Renaud expressed?
- 20 A. So there was -- it's like
- 21 hot in-place recycling of SMA. SMA -- I don't
- 22 know whether I -- on that day I said about the
- 23 specification. I know later on I stated that
- 24 newly muni and -- municipal and provincial
- 25 specification did not -- I don't remember that

- 1 day. But it was a concern. And, you know, hot
- 2 in-place recycling of SMA mix that is -- has got
- 3 graded -- gradation and very high asphalt cement
- 4 content and has fibre, hot in-place recycling,
- 5 this mix, and converting it to dense graded mix,
- 6 that that would be a significant change from that
- 7 technical point of view.
- 8 Q. Sorry, was that what you
- 9 expressed or what Mr. Renaud expressed?
- 10 A. I think we agreed both
- 11 with them. Like, you know, I -- probably I said
- 12 and he agreed, he confirmed my concerns. He
- 13 understood the SMA mix characteristics, what it
- 14 was. So like I think I was probably -- I was
- 15 probably the first one said, but he agreed with me
- 16 and he shared my concerns from the technical point
- 17 of view.
- Q. And I think you said that
- 19 you weren't sure if it was at this or later
- 20 meeting, and you referred to the OPSS documents.
- 21 Are you talking about the MTO and municipal OPSS
- 22 documents excluding SMA from hot in-place
- 23 recycling?
- 24 A. Yes.
- Q. But you're not -- am I

- 1 correct, you're not sure if that was something
- 2 that was discussed at this meeting in particular?
- A. No, I'm not sure. I know
- 4 later on I use it but at that meeting I'm not
- 5 sure.
- Q. What about the polished
- 7 stone value results, because you had just said
- 8 that after getting -- at some point between
- 9 receiving the results and the later meeting that
- 10 you said thought that those results were too low
- 11 for hot in-place recycling. Is that something you
- 12 discussed at this meeting?
- 13 A. I don't recall. I'm not
- 14 sure.
- 15 O. All right. And then you
- 16 said that you provided your recommendations and
- 17 you said you weren't sure exactly what it was, but
- 18 can you come back to that and tell me what you
- 19 think you said and what the reaction was?
- 20 A. I don't remember exactly
- 21 what I said, but it was shortly after that meeting
- 22 that I receive from Dave Hein so I knew about the
- 23 article and the fatality, so I just said that
- 24 it -- you know, I think like I recommended using
- 25 shot blasting as a quick and simple alternative

- 1 for friction -- friction improvement of the Red
- 2 Hill Valley Parkway.
- Q. Did you mean in concert
- 4 with or after hot in-place recycling, or do you
- 5 mean in the interim prior to the pavement
- 6 rehabilitation taking place?
- 7 A. No, definitely prior to,
- 8 not....
- 9 Q. Do you recall what, if
- 10 any, reaction there was to your suggestion?
- 11 A. I think it's -- this is
- 12 probably the first time that I was informed that
- 13 the City couldn't do it because that would confirm
- 14 that there was a problem with the Red Hill Valley
- 15 Parkway and the public would blame the City. I
- 16 think that was the first time that I heard this.
- 17 O. Do you recall who said
- 18 that?
- 19 A. I think it was Marco,
- 20 Mr. Marco Oddi. I know that over three meetings
- 21 he said this thing three times to me and once
- 22 Mr. Becke confirmed, but I think at that meeting
- 23 was probably Mr. Oddi.
- Q. And to make sure I
- 25 understand that, what you believe was Mr. Oddi

- 1 said that the City could not take measures to
- 2 improve the friction because it would confirm
- 3 there was a problem on the Red Hill Valley Parkway
- 4 and the public would -- sorry, was it blame the
- 5 City?
- A. Yes, would blame -- you
- 7 know, I don't remember the words exactly, but the
- 8 sense was like this, if we do anything that would
- 9 confirm that there was a problem that the City
- 10 would be blamed for this.
- 11 Q. Do you recall anything
- 12 else from that meeting?
- A. No, no, I don't. I think
- 14 it was important, the discussion, but no, I don't
- 15 remember anything else, no. No.
- 16 Q. If we could move to
- 17 images 69 and 70, Registrar.
- And so in paragraph 192 on
- image 69, on February 28th, 2018 Mr. Becke
- 20 circulated a calendar invitation for a meeting
- 21 that ultimately took place on March 9, 2018, with
- 22 the subject line "Meeting to discuss rehab
- 23 strategy for RHVP 2019."
- 24 And in paragraph 192 the
- 25 requested attendees are listed, which include

1	Mr. Oddi, Dennis Perusin, Mr. Andoga, Ms. Jacob,
2	you, Mr. Leon, Mr. Vala and Mr. Renaud. And he
3	indicates:
4	"Further to the presentation
5	on Friday, (thanks Ludomir),
6	we had a side discussion
7	afterwards regarding hot
8	in-place on the RHVP. It
9	sounds like there will be some
10	challenges with this approach
11	that we need to discuss moving
12	forward."
13	And then he asks for
14	availability. And then you respond in 193.
15	And if you could pull that up,
16	Registrar. First you indicate that you:
17	"As discussed and requested
18	after Friday's presentation, I
19	contacted Pat Wiley, the
20	president of EcoPave Asphalt
21	Recycling Inc. Pat does a lot
22	of HIR in BC and will likely
23	be doing some HIR for MTO in
24	the Thunder Bay area this
25	year. Pat has never done HIR

1	recycling of SMA and thinks
2	this is perhaps not feasible.
3	He has referenced the MTO
4	guidelines that do not allow
5	HIR of SMA. I have included
6	below the statements from the
7	MTO June 2015 guidelines on
8	HIR for your information."
9	And then is that next
10	paragraph and the one after that, those are taken
11	from the MTO guidelines. Do I understand that
12	correctly?
13	A. Yes, yes, they are.
14	Q. Okay. And so what was
15	your prior discussion with Mr. Wiley that you
16	referred to?
17	A. So I knew Pat Wiley, so
18	my intention was to talk to him about using
19	recycling SMA, this particular mix, on the Red
20	Hill Valley Parkway. He was because that
21	was we shared the concerns during this previous
22	additional conversation, additional meeting, or
23	side meeting, so I wanted to know his opinion
24	because he has a lot of experience. So I wanted
25	to know his opinion about this.

- 1 Q. I see. Okay. And if you
- 2 can take that down, Registrar, and just go back
- 3 one image to 191 -- sorry, to paragraph 191.
- 4 Image 68. Thank you.
- 5 And there I just see that on
- 6 the same day prior to that you had e-mailed
- 7 Mr. Wiley asking him about this issue. Did you
- 8 have a telephone conversation with him following
- 9 that?
- 10 A. Excuse me. I think I
- 11 also had a telephone conversation. I sent e-mail,
- 12 but, you know, I -- I think it's very likely that
- 13 I had -- also had a telephone conversation. I
- 14 talk -- I had a few of them. When exactly I don't
- 15 know, but I think it's likely I did.
- Q. So you e-mailed him
- 17 asking him a question about it but then we don't
- 18 have anything that same day when you are then
- 19 responding speaking -- and you're talking about
- 20 having contacted Mr. Wiley, so that's why.
- 21 A. Yes, I think I -- I think
- 22 I did.
- 23 Q. In your e-mail reply that
- 24 we just had taken you to responding to the
- 25 invitation, did that express your reservations

- 1 about using HIR on the SMA at that time?
- A. You mean in item 191?
- Q. No, in 193, the one that
- 4 we had just discussed when you e-mailed back to
- 5 the City.
- A. Yes, so that was my
- 7 concern based on my discussion with Pat Wiley.
- Q. Right. Specific to
- 9 Mr. Wiley?
- 10 A. Yes.
- 11 Q. Okay.
- 12 A. I think I talked to him
- on the phone. Sorry. Because I remember that he
- 14 told me -- he didn't take like the idea of doing
- 15 recycling of SMA on main highway. So that must
- 16 have been -- that probably he told me this. So it
- 17 was on top of this e-mail exchange.
- Q. And then do you recall
- 19 the meeting at the City's offices on March 9,
- 20 2018?
- 21 A. Yes, I do.
- Q. Right. And we're going
- 23 to have to jump around a little bit, but there
- 24 are -- there's a couple of sets of notes that I
- 25 want to ask you about first.

- 1 And if we could go, Registrar,
- 2 to paragraph 204 and 206. Sorry, I don't have the
- 3 images. Yeah, 72. And keep up 72 for now and
- 4 then also, yeah, paragraph 76. Thank you. Which
- 5 is paragraph 206.
- 6 There's two sets of notes and
- 7 the first one in paragraph 204 are -- is undated,
- 8 and then the second set is at paragraph 206 on the
- 9 right-hand image there which is dated March 9,
- 10 2018. Do you recall when you took these notes?
- 11 A. Yes, I do.
- Q. When was that?
- 13 A. So first I prepared the
- 14 note under item 206 because that was my
- 15 preparation for the meeting, but then I realized
- 16 that I needed some additional preparation,
- 17 additional information to prepare myself for the
- 18 meeting, so I wrote that -- the one that is shown
- 19 on the right hand, 204.
- 20 O. I see. So did you also
- 21 write those on -- the one on in paragraph 206,
- 22 were those also written prior to the meeting?
- 23 A. Yes, both of them were
- 24 written prior to the meeting, yes.
- Q. Okay. And both

- 1 individually and collectively it's quite lengthy.
- 2 What was your reason for preparing such detailed
- 3 notes?
- 4 A. I knew that I had to
- 5 deliver a difficult message to the City that --
- 6 and at that time I considered hot in-place
- 7 recycling of SMA as not feasible, so I had to be
- 8 well prepared for delivering such message.
- 9 Q. Why was that a difficult
- 10 message at that point to deliver?
- 11 A. Difficult because the
- 12 City, Mr. Moore, were very keen on doing hot
- in-place recycling of SMA on the Red Hill Valley
- 14 Parkway. They considered -- he considered this as
- 15 feasible and, you know, very good alternative.
- 16 But I had to say that it was not feasible. I had
- 17 to express my concerns.
- Q. Do you recall who was at
- 19 the meeting?
- 20 A. Oh, there was a group of
- 21 people. Oh, definitely I think we probably have
- 22 definitely Mr. Gary Moore, Mr. Mike Becke, Marco
- 23 Oddi, Susan Jacob, Dennis Perusin. Likely Rick
- 24 Andoga -- I'm not sure. I think Rick Andoga. So
- 25 there was a relatively big group of technical

- 1 people from the City. I think they were from
- 2 engineering services.
- Q. And do you recall if Rick
- 4 Shebib was there?
- 5 A. I think he was but I'm
- 6 not sure.
- 7 Q. Or Sarath Vala?
- 8 A. I think -- again, like it
- 9 is possible, but I know those people at the time
- 10 very well. I know that -- yeah, probably there
- 11 were a few more people.
- 12 Q. You don't have a specific
- 13 recollection of them being there but they might
- 14 have been?
- 15 A. Yes, yes, correct.
- 16 Q. What did you bring with
- 17 you to the meeting?
- 18 A. I brought with me the --
- 19 of course my notes, this one, and my additional
- 20 preparation notes, and the results of the testing.
- 21 So I brought the results of PSV, and just as a
- 22 one-page report from Mr. James Wharrie (ph) and
- 23 the results of DPT testing and macro testing he
- 24 hasn't (ph) sent back.
- Q. And those materials that

- 1 you just mentioned are attached at the end of your
- 2 undated notes. Are those the materials that
- 3 you're talking about?
- 4 A. Yes.
- Q. If we could, Registrar,
- 6 take down image on the left just for a moment and
- 7 if we could go to GOL7414. These are just the
- 8 handwritten undated notes, and it's image 78.
- 9 So your notes continue above
- 10 this and then we've got this one page that has
- 11 BPN, it says. Is that the British pendulum test
- 12 results that you were speaking of?
- A. Yes, they are.
- Q. And you brought those to
- 15 the meeting?
- 16 A. Yes, I did.
- Q. And then go to the next
- 18 image, please, Registrar.
- 19 These are additional notes in
- 20 the OD, the overview document, and then the next
- 21 image, 80. James Fisher Testing Services Ireland
- 22 LTV (ph). Are these the PSV results?
- 23 A. Yes.
- Q. And you see at the bottom
- 25 corrected polished stone value of 45. You brought

- 1 this to the meeting?
- 2 A. Yes, it is.
- Q. The next image, please,
- 4 Registrar.
- 5 And then this is table 1,
- 6 measured texture depth MTD and RHVP. So this is
- 7 the result of sand patch tests?
- 8 A. Yes.
- 9 Q. And that as well you
- 10 brought to the meeting with you with your notes?
- 11 A. Yes, I brought this.
- 12 Q. If you could then take
- 13 the left one down and put back up the prior image,
- 14 Registrar, at paragraph 204 which is page 72.
- 15 Thank you.
- 16 And how would you describe the
- 17 tone of the meeting overall?
- 18 A. Initially at the
- 19 beginning that was just normal. I have to
- 20 deliver -- make sure that I would deliver what was
- 21 in my agenda. Initially it was just normal. I
- 22 was presenting the results. It change a little
- 23 bit -- it changed later on.
- Q. At what point did it
- 25 change? We'll talk about the substance of it, but

- 1 just in terms of the tone, at what point did the
- 2 tone of the meeting change?
- A. Oh, when I expressed my
- 4 opinion that the hot in-place recycling of SMA on
- 5 the Red Hill Valley Parkway was not feasible.
- Q. So we'll come back to
- 7 that then. What did you do first at the meeting?
- A. First, you know, I had to
- 9 follow my agenda. My main purpose was to make
- 10 sure that I will deliver what was -- what I
- 11 prepared for. And so IU --
- Q. Just before you go on.
- 13 Would it be better if we -- what's most helpful
- 14 for your notes? Would it be better if we have
- 15 your undated notes up, those complete notes on two
- 16 images? Would that be the best way to proceed?
- 17 A. I think probably -- I
- 18 definitely started with undated.
- 19 Q. So maybe we can pull up
- 20 72 and 73, then, please, Registrar, for now.
- 21 If you want to look at the
- 22 other notes please let me know. So you think you
- 23 followed your agenda, so what was the first thing
- 24 you presented?
- 25 A. So I had to present --

- 1 first present the result of the test. So I
- 2 said that -- I brought hard copy but I didn't
- 3 distribute, so I only said the texture was okay.
- 4 I probably said that it was -- the average was
- 5 1.25 millimetres, which is good, and then I talked
- 6 about BPN.
- 7 Q. British pendulum?
- 8 A. Yeah, sorry, British
- 9 pendulum number. And I said that there was
- 10 variable, and the average was 39.4 but they range
- 11 from 21 to 62. And I stated that because of
- 12 weather conditions I considered them unreliable.
- 13 Then I talk about just --
- Q. Did you describe what the
- 15 weather conditions were that rendered the results
- 16 unreliable?
- 17 A. I think I said that the
- 18 temperature was below zero and there was some
- 19 light snowfall. This is what I think I said.
- 20 Number 3, I said that the results of Tradewind
- 21 Scientific were -- the average was 35 and the
- 22 average was 35 and 38 but they were variable. And
- 23 then -- and then I said the MTO results in 2007
- 24 were good for a new SMA. And yeah, I see I made
- 25 an error here because it should be 33.8 and 33.9.

- 1 I said 34.9. It should be 33.8. Because I
- 2 prepared this notes quickly so -- and with -- but
- 3 have low value under structure.
- 4 And then I talk about PSV of
- 5 45 which was considered for trap rock as medium.
- 6 Then I said that typical limestone would have
- 7 lower value, so 42. And the trap rock with values
- 8 of 50 or higher would be considered to be a good
- 9 trap rock. And dolomitic stone, you know, in my
- 10 opinion was -- the best aggregate would probably
- 11 have 55 or higher.
- 12 And I said that based on this
- 13 the conclusion was that it was somewhat risky to
- 14 reuse this material with this PSV in hot in-place
- 15 recycling of SMA on the Red Hill Valley Parkway.
- 16 Q. So if we could go back to
- 17 a few of those things before we move on.
- 18 First question is about the
- 19 British pendulum results. If I understand your
- 20 evidence correctly from Thursday, that the British
- 21 pendulum testing was informational, I think was
- 22 the way you described it, and that the friction
- 23 testing had been requested by Mr. Moore as opposed
- 24 to being you proposing it for evaluating hot
- 25 in-place recycling. Did I get that correct?

- 1 A. Yes, correct.
- Q. Okay. So why then is
- 3 that something that you are bringing up at this
- 4 meeting?
- 5 A. Because Mr. Moore ask
- 6 about the results so I wanted to present it.
- 7 Q. Okay. And the sand patch
- 8 testing, I think you had also said that that was
- 9 informational on the same basis as the British
- 10 pendulum testing. Is that again bringing it up
- 11 for the same reason that the testing had been
- 12 requested by Mr. Moore and you wanted to know the
- 13 results?
- 14 A. Yes.
- 0. And the polished stone
- 16 value results, you indicated that the -- as you
- 17 did previously, that it's medium but specifically
- 18 it's medium for trap rock, right?
- 19 A. Yeah, I use this term
- 20 medium, because this is what I found in the
- 21 technical paper by Dr. Emery. So this is what I
- 22 used for -- his opinion that was medium value.
- 23 Yes. Not only for trap rock, just for aggregate.
- Q. And you do mention 50
- 25 there, trap rock with 50 is -- I take that as

- 1 being very good, but 50 is also -- that's the
- 2 level as we discussed for the DSM approval by the
- 3 MTO, right?
- 4 A. Correct.
- Q. Is that something that
- 6 you discussed? I don't see that referenced here.
- 7 A. At the meeting? At that
- 8 meeting.
- 9 Q. Yes.
- 10 A. No, I just stated that
- 11 trap rock with 50 would be good.
- 12 Q. Would that not be a
- 13 relevant number or standard to know that the MTO
- 14 requires for its aggregates?
- 15 A. I think I likely stated
- 16 they said that later on, but I don't have the
- 17 thing in the records.
- Q. Okay. And then in item 3
- 19 as you mention you -- the SN from Tradewind
- 20 Scientific. Now, did you specifically discuss and
- 21 use the name Tradewind in this meeting?
- 22 A. I don't know whether I
- 23 say -- I can say discuss, but I presented -- I
- 24 said okay, Tradewind Scientific did the testing
- 25 and these are the values.

- Q. Okay. So you did use --
- 2 you used the name Tradewind Scientific; is that
- 3 correct?
- 4 A. Yes, I did.
- Q. At the time were you
- 6 aware that the Golder report and Tradewind report
- 7 had not been shared internally by Mr. Moore?
- 8 A. No, I didn't know. No, I
- 9 didn't know.
- 10 Q. So we see what your notes
- 11 are there. Do you recall any other detail that
- 12 you said with respect to the Tradewind report and
- 13 results other than as disclosed in your notes?
- 14 A. No, I just presented the
- 15 results. Nobody ask me about this. Nobody -- no,
- 16 nobody ask me about this. So I just presented
- 17 these are the numbers of Tradewind Scientific and
- 18 there was no question, no -- no.
- 19 Q. Okay. And did you
- 20 mention the Golder report in the course of the
- 21 meeting? And by that of course I mean the draft
- 22 report that -- to which you appended the Tradewind
- 23 report?
- 24 A. I -- I don't recall. I
- 25 thought everybody knew about this. I mentioned

- 1 Tradewind Scientific nobody ask me. So -- my
- 2 impression that everybody knew about it. Maybe
- 3 not everybody but people knew about it.
- Q. And in point 6, as you
- 5 indicated, you said conclusion somewhat risky to
- 6 reuse in the surface course. And are those the
- 7 exact words that you used?
- 8 A. I'm not sure whether that
- 9 is exact words, but these were my preparation
- 10 notes. So I -- this is the message that I had to
- 11 convey to the City.
- 12 Q. And that was in respect
- 13 of the HIR. And I think as you mentioned,
- including with the PSV results that you described?
- 15 A. Yes, correct.
- 16 Q. And then right below that
- 17 it says "Gary results inconclusive." Is that a
- 18 note that you wrote prior to the meeting?
- 19 A. No, that was -- there was
- 20 a space there and that was my comment that I wrote
- 21 during the meeting.
- 22 O. So what does that
- 23 reflect? Is that something Mr. Moore said?
- 24 A. Yes. Mr. Moore said the
- 25 results inconclusive.

- Q. Which results was he
- 2 referring to?
- A. That I think was a
- 4 general statement after I presented this items
- 5 that, you know, the results were inconclusive.
- 6 MS. JENNIFER ROBERTS: If I
- 7 might note, Commissioner, I'm just wondering since
- 8 we're getting to a question of what's added on the
- 9 day versus what is done in preparation, whether it
- 10 would be helpful to look at the original.
- 11 JUSTICE WILTON-SIEGEL: Sure.
- MR. LEWIS: So --
- 13 JUSTICE WILTON-SIEGEL: I
- 14 think that's a good suggestion so we can --
- MR. LEWIS: If we can take
- 16 down image on the left, Registrar, and go to the
- 17 one that I had up before, Golder GOL7414. And I
- 18 think it's image 76, I think, might be 77. Yes.
- 19 So there we have -- if you could call up A down to
- 20 just above B where it says "Gary results
- 21 inconclusive."
- We see conclusion at the
- 23 bottom, "risky to reuse it in the surface course"
- 24 and then below that "Gary results inconclusive."
- 25 That's the thing.

- 1 So if I understand you
- 2 correctly, you're saying the "Gary results
- 3 inconclusive" you wrote in during the meeting; is
- 4 that right?
- 5 A. Correct.
- Q. How -- is that something
- 7 you recall doing or can you tell that from your
- 8 note itself?
- 9 A. It's in the notes. I
- 10 also recall it.
- 11 Q. Okay. If we can take
- 12 down that call out. If we could go back to
- image 72 in the overview document.
- So with respect to the results
- 15 being inconclusive, you said you thought that that
- 16 was a general comment from Mr. Moore, inconclusive
- in respect of how they applied to HIR or in some
- 18 other respect?
- 19 A. It was like he says -- he
- 20 said that the results were inconclusive. So I
- 21 think given objective of the meeting was HIR, hot
- 22 in-place recycling, so -- but he wasn't specific
- 23 why.
- Q. All right. Was there any
- 25 discussion about the MTO restrictions on HIR with

- 1 SMA?
- 2 A. I don't see this thing in
- 3 my notes, but I think they were. I would also
- 4 look at other -- because I think I brought this
- 5 thing to their attention that it -- it's not only
- 6 MTO because MTO is the OPSS provision
- 7 specification, but also OPSS municipal. Actually
- 8 it was identical that didn't allow hot in-place
- 9 recycling of SMA.
- 10 Q. Then there's -- after the
- 11 first six points in your undated notes, then
- 12 there's letters, BCB and then options and so forth
- 13 below them. So was there a reaction before you
- 14 got onto those topics or did you continue
- 15 presenting?
- 16 A. You know, my purpose, it
- 17 was to deliver the agenda, it was to deliver what
- 18 I had in my notes. So whatever the atmosphere,
- 19 the discussion was, I had to follow what I had in
- 20 my notes. My objective was to deliver this. So
- 21 yeah, there was -- there was some discussion, but
- 22 now it's for BCD, that would probably overlap with
- 23 what I had in my preparation notes for the
- 24 meeting, but then there was, you know, some
- 25 discussion between -- between about the results

1 and the conclusion in the application of 2 Q. Specifically in there 3 there's references to -- on image 73 after D, it 4 refers to Pat Wiley again: 5 "Pat Wiley says he's never 6 done hot in-place recycling of 7 SMA so he did not want to do it on the RHVP, main road in 8 9 Hamilton. Also, changing the 10 gradation and other aspects from SMA to SP 12.5FC2 would 11 12 be impossible according to 13 Pat." 14 Was that something that was 15 discussed in the meeting? 16 A. Yes. I delivered this 17 message, yes. 18 O. Right. Sorry. That you told the attendees? 19 A. Yes, I did. 20 21 And so what was the Ο. 22 reaction? You discussed already Mr. Moore 23 referring to the test results of being, or 24 something being inconclusive. What was his

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reaction?

25

- 1 A. He was not happy with
- 2 this.
- Q. And is this when the tone
- 4 of the meeting changed? You referred to that when
- 5 I asked at the outset about the tone of the
- 6 meeting. Was this the point where the tone
- 7 changed or was it at some other point?
- 8 A. That was mainly when the
- 9 tone changed.
- 10 Q. So can you describe that
- 11 and how others reacted as well?
- 12 A. There was some I would
- 13 say heated reaction to this and some I would say
- 14 not typically used language. But I think it was
- 15 mainly, you know -- Mr. Moore was not happy with
- 16 this, and Marco, Mr. Oddi was -- I think he had
- 17 the courage to say that it's not suitable
- 18 basically, stand up and express the same opinion
- 19 as I have. And then it became -- so the adrenalin
- 20 started to go up.
- Q. Sorry, adrenalin?
- 22 A. Yes.
- Q. And to what extent? I
- 24 appreciate that it can be uncomfortable
- 25 characterizing words and meanings in a heated

- 1 meeting, but we need you to tell us what happened
- 2 and what was said to your recollection and the
- 3 level of heat as you described it.
- 4 A. In my opinion it
- 5 wasn't -- this was not addressed to me, but as the
- 6 results of this raised adrenalin, the language
- 7 became somewhat offensive, not something that I
- 8 have heard, and there was some sort of, I don't
- 9 know, like, anger or something.
- 10 Q. As between Mr. Moore and
- 11 Mr. Oddi?
- 12 A. I think this conversation
- 13 between the two of them, that raised the adrenalin
- 14 level.
- 15 O. In terms of the offensive
- language, who saying the offensive words?
- 17 A. I think mainly it came
- 18 from Mr. Moore and then Mr. Oddi reacted in a
- 19 similar way and then it -- it was hotter and
- 20 hotter.
- Q. I think you said it's not
- 22 something that I have heard. You've been working
- 23 in the construction world for a long time and have
- 24 been on many, many work sites and so forth and --
- 25 (skipped audio) were often colourful language. So

- 1 are you describing that you hadn't actually heard
- 2 the words used, the offensive words used, or are
- 3 you talking about in this kind of context?
- 4 A. Oh, yes, as you said, I
- 5 was -- I've been in construction for 48 years and
- 6 this is language that is commonly used
- 7 unfortunately on construction site. But I would
- 8 say the heat and -- almost like the anger. You
- 9 know, you can have this language on-site but there
- 10 is no anger. It's like common exchange. But here
- 11 there was I would say almost anger.
- 12 O. Okay. So it was the tone
- 13 that went with the swearing and the animus behind
- 14 it, is that what set it apart?
- 15 A. Yes.
- 0. What kind -- are we
- 17 talking about the F word used in various ways, is
- 18 that one of them?
- 19 A. Mainly F, S -- yeah,
- 20 mainly this.
- 21 O. I see Mr. Lederman has
- 22 popped onto the screen.
- 23 JUSTICE WILTON-SIEGEL: Could
- 24 you take -- Mr. Registrar, could you take the
- 25 documents down, please.

- 1 MR. LEDERMAN: I'm sorry to
- 2 interrupt. I've just come on screen in light of
- 3 the questions that were being asked of this
- 4 witness to describe the tone of the meeting.
- 5 Presumably Mr. Lewis is going to be asking
- 6 Mr. Oddi and Mr. Moore questions about what was
- 7 said or what was expressed, including the tone
- 8 that was used in the words spoken by the
- 9 individuals Mr. Oddi and Mr. Moore.
- To ask this witness to comment
- 11 on the tone in my view is outside of what a
- 12 witness who maybe was present in the room can
- 13 opine about. And I also raise (skipped audio) as
- 14 to the value of Dr. Uzarowski's impression when
- there are going to be other witnesses who were
- 16 participants in that discussion who can speak
- 17 directly to that.
- JUSTICE WILTON-SIEGEL: Well,
- 19 Mr. Lederman, you raise I think a number of
- 20 different questions. The first and perhaps the
- 21 principal one is a question of whether Mr. Moore
- 22 and Mr. Oddi will be asked for their views with
- 23 respect to that conversation. I leave that to
- 24 Mr. Lewis to respond to.
- MR. LEWIS: Yes, they will.

- 1 JUSTICE WILTON-SIEGEL: So
- 2 that's for another day. I'm not sure you think
- 3 anything comes from that at the present time.
- 4 With respect to the question
- 5 of tone, I think it's a perfectly reasonable
- 6 question to ask what Dr. Uzarowski felt was not
- 7 just the tone of the meeting but the animus for
- 8 the tone, and I expect that we will get to some
- 9 issue about the reasons for that in due course.
- 10 Would that be correct, Mr. Lewis?
- 11 MR. LEWIS: We'll certainly be
- 12 asking questions about it.
- MR. LEDERMAN: I guess what
- 14 I'm concerned about is we're asking for the
- impressions about tone from someone who was not
- 16 the speaker or the person to whom the speech was
- 17 directed to. As I understood Dr. Uzarowski's
- 18 evidence, that these were communications between
- 19 Mr. Moore and Mr. Oddi that he described as being
- animated, and that's what I'm expressing concern
- 21 about, is that we're asking about -- asking for
- 22 the impressions of tone by someone who is not a
- 23 participant.
- JUSTICE WILTON-SIEGEL: Okay.
- 25 Mr. Lederman, I think this is premature. We

- 1 haven't heard the evidence of the other two
- 2 persons, and eventually I think the probative
- 3 value of this testimony is something you can
- 4 address in both the testimony of the City
- 5 individuals, but also more importantly, in the
- 6 submissions at the end of this hearing.
- 7 MR. LEDERMAN: Yeah, I
- 8 appreciate that and that really was my point,
- 9 which is that it is --
- 10 JUSTICE WILTON-SIEGEL: Nobody
- 11 is taking anything that is given in testimony
- 12 today as determinative.
- MR. LEDERMAN: No, no, I
- 14 recognize that and I appreciate that. The point I
- 15 was making about the fact that Mr. Oddi and
- 16 Mr. Moore are likely going to be asked those
- 17 questions was to identify what I'm raising about,
- 18 which is that that is where -- if this line of
- 19 questioning is probative at all, I would have
- 20 thought the evidence is most probative from those
- 21 parties who were the participants of the
- 22 conversation, rather than individual who was
- 23 present in the room.
- 24 JUSTICE WILTON-SIEGEL: Right.
- 25 So I simply say that that is a premature comment.

- 1 You will have plenty of opportunity to make that
- 2 submission at the end of these hearings.
- 3 MR. LEDERMAN: Thank you.
- 4 JUSTICE WILTON-SIEGEL:
- 5 Mr. Lewis, you can proceed.
- 6 BY MR. LEWIS:
- 7 Q. So this discussion which
- 8 is described as heated and so forth with profanity
- 9 is going between Mr. Moore and Mr. Oddi. Were you
- 10 able to ascertain what the source of the anger was
- 11 as between them and the source of the language,
- 12 why they were using those words and why it became
- 13 heated?
- A. You know, two, I think in
- 15 my opinion there were two. First, you know, what
- 16 I said that in my opinion, and I presented this,
- 17 that hot in-place recycling of SMA was not
- 18 feasible on the Red Hill Valley Parkway. And I
- 19 think the other stuff was also another delay of
- 20 the pavement rehabilitation, moving it from 2018
- 21 to 2019. So I don't remember details of this, but
- 22 that would be the main reason for this.
- 23 Q. Sorry, on the second part
- 24 of that, the moving it -- resurfacing to 2019 from
- 25 2018, was that as a result of the -- of originally

- 1 hot in-place recycling or is that just something
- 2 that was raised during the meeting?
- 3 A. I think I learned during
- 4 the meeting that it would be delayed by another
- 5 year.
- Q. Was that related to the
- 7 hot in-place recycling or no, do you recall?
- 8 A. I don't recall. I think
- 9 it would be hot in-place recycling was roughly
- 10 half of the price of milling -- of shave and pave
- 11 (indiscernible) overlay, so that would require
- 12 much higher budget for this kind of work instead
- 13 of hot in-place recycling.
- Q. In terms of the tone of
- 15 the meeting, what about the volume of it? How
- 16 loud did it get, could you characterize that?
- 17 A. Maybe a little bit
- 18 raised, but no, I don't recall any loud -- no,
- 19 there was nothing unusual to volume.
- 20 O. So it was -- okay, so it
- 21 wasn't about the loudness that caused you to
- 22 characterize that as being unusual. It was
- 23 that -- just make sure, it was the anger and
- 24 profanity that was being directed at one another?
- 25 A. Yeah, maybe not one

- 1 another, but the -- this atmosphere, yeah, but
- 2 there was nothing in the volume, no. I don't
- 3 recall any raised -- no.
- Q. Did anyone else speak up
- 5 at the meeting that you recall on the debate about
- 6 HIR, using it or not?
- 7 A. I don't have particular
- 8 recollection. During this -- no, I don't have
- 9 particular recollection. Until Mr. Moore left,
- 10 no, I -- it's possible, also some people stated
- 11 something but I don't recall.
- 12 Q. And you said until
- 13 Mr. Moore left. Did he leave at some point during
- 14 the meeting before it was over?
- 15 A. Yes, because that was the
- 16 main part of the meeting. So I had to deliver
- 17 what was in my agenda and then Mr. Moore left --
- 18 Mr. Moore left, there were few people left, and
- 19 then Ms. Susan Jacob left and then we had some
- 20 discussion with the people that were still in the
- 21 room.
- Q. If you could take down 72
- 23 and leave up 73, Registrar, but also pull up
- 24 the -- at paragraph 206. Keep 73.
- 25 So these are your other notes

- 1 which you indicated that you also made before the
- 2 meeting, and there's a reference to
- 3 microsurfacing. Is that something that was
- 4 discussed during the meeting, and if so, at what
- 5 point?
- A. It's hard to say
- 7 discussed. As I said, I had to deliver what was
- 8 in my notes. So I talk about this, I said about,
- 9 but microsurfacing was rather I think what I
- 10 suggested one of the options, and Mr. Moore said
- 11 no microsurfacing. So he definitely rejected the
- 12 idea of microsurfacing.
- Q. Okay. And so obviously
- 14 that was before Mr. Moore left the meeting. At
- 15 what point are you suggesting microsurfacing? Is
- 16 this prior to resurfacing or after hot in-place
- 17 recycling is done?
- 18 A. So in this case I
- 19 consider microsurfacing after hot in-place
- 20 recycling because I had some previous
- 21 experience -- significant experience in hot
- 22 in-place recycling and often the results are
- 23 inconsistent, particularly in terms of
- 24 (indiscernible) surface, so I thought it would be
- 25 -- it would make sense to put microsurface on top

- 1 of the hot in-place recycled material to make it
- 2 uniform.
- Q. Okay. And so that is
- 4 about uniformity. Was that about friction or no?
- A. At the same time friction
- 6 would be addressed so --
- 7 Q. Right, it would be
- 8 addressed, but was that something that was also
- 9 part of the reason for suggesting microsurfacing
- 10 after hot in-place recycling, or is that just a
- 11 happy byproduct?
- 12 A. I don't recall in detail
- 13 how I said it, but it would be like if they use
- 14 the material that was there they did hot in-place
- 15 recycling, they put microsurface -- put
- 16 microsurface on top, uniformity, microsurface and
- 17 friction characteristics would be addressed.
- 18 Q. And with respect to the
- 19 resurfacing being delayed to 2019, did you have
- any recommendations for the interim period?
- 21 A. Yes, that was discussed
- 22 after Mr. Moore left and -- with that smaller
- 23 group of people.
- Q. Okay. So before -- we
- 25 will come back to that. Before Mr. Moore left the

- 1 meeting is there anything else that you recall
- 2 that was discussed? We have up your second part
- 3 of your undated notes as well. Is there anything
- 4 else you recall before Mr. Moore left the meeting?
- 5 A. I think I delivered
- 6 everything, because my objective of that meeting,
- 7 no matter what the atmosphere, was to deliver what
- 8 was in my agenda. So I had to go through it and
- 9 deliver everything -- deliver, you know, the
- 10 message that was there.
- 11 Q. So you have references
- 12 there in the left in your undated notes to two
- options, mill overlay, so that's the shave and
- 14 pave; is that right?
- 15 A. Shave and pave. And hot
- 16 in-place.
- Q. Is option 2?
- 18 A. Yes.
- 19 O. And then at the bottom
- 20 you have warning, exclamation mark:
- 21 "Neither option 1 nor option 2
- 22 will solve the accident hazard
- issue. The speed has to be
- 24 controlled. Skid hazard
- 25 increases drastically when the

- 1 speed increases."
- 2 Is that the message that you
- 3 delivered?
- 4 A. Yes, I did.
- Q. What were you referring
- 6 to there? I mean, I see it says "skid hazard" but
- 7 neither of those options will solve it. Why is
- 8 that?
- 9 A. Well, because, you know,
- 10 I learn from that article in Hamilton Spectator
- 11 about accidents and fatalities, and so I was
- 12 obviously concerned about this and I wanted -- I
- 13 had very serious concern about speed, as I
- 14 mentioned in a previous cross-examination, so --
- and this hasn't changed. So in my opinion, no
- 16 matter what was done, the speed was a very
- important factor to be taken under control.
- Q. So this was specifically
- 19 related to speed, this particular comment; is that
- 20 right?
- 21 A. Yes, that is related to
- 22 speed.
- Q. And then after Mr. Moore
- 24 left the meeting you had indicated that there was
- 25 a discussion about the interim period before the

- 1 rehabilitation took place. What can you tell us
- 2 about that discussion?
- 3 A. So after Mr. Moore left
- 4 there were people -- that group was initially as
- 5 stated in that invite, but then Ms. Susan Jacob
- 6 left because Mr. Oddi was still excited. So he
- 7 was calming down, but she got offended with the
- 8 language and she left the room. And then there
- 9 was this group of people so I had to deliver my
- 10 last item on the agenda under item 206. So the
- 11 last my last item was to recommend shot blasting
- 12 or skidabrading as the interim way of improving
- 13 friction on the Red Hill Valley Parkway.
- Q. I think that's on the
- 15 next page, we go to 76 on the right hand image,
- 16 Registrar. The last point where it says
- 17 "skidabrading for now no public"?
- 18 A. Yes.
- Q. And is that something
- 20 that you wrote during the meeting?
- A. No, that was in my
- 22 preparation because this item \$12 per metre square
- 23 was just taken during the meeting in the right
- 24 corner. So it was not before my -- so this item
- 25 with dash skidabrading, that was the preparation

- 1 for the meeting.
- 2 JUSTICE WILTON-SIEGEL:
- 3 Perhaps we might put that note back up.
- 4 BY MR. LEWIS:
- Q. Yes, if we could go that.
- 6 This one would be -- this GOL7414 at image 74.
- 7 It's actually the second page. So we see \$12
- 8 above on the right, 12 metres squared above, and
- 9 then "skidabrading for now no public." So
- 10 this was written beforehand you said?
- 11 A. No, only the first part.
- 12 So \$12 per metre square was the price of hot
- in-place recycling that I probably -- I knew the
- 14 price before but it was just refreshed. But I
- 15 said in my agenda skidabrading for now. And
- 16 during the meeting I added this "-- no" and "--
- 17 public."
- Q. And who said no?
- A. Mr. Marco Oddi and
- 20 Mr. Mike Becke confirmed.
- 21 O. You also mentioned
- 22 public, so what was the complete statement then?
- 23 A. So it was like -- I don't
- 24 remember word by word, but it was the same
- intention as before, that the City couldn't do

- 1 anything on the Red Hill Valley Parkway because it
- 2 would confirm that there was an issue with the
- 3 pavement on the Red Hill Valley Parkway, and so it
- 4 was like admitting the guilt and the City would
- 5 get the blame for this.
- Q. Is it your recollection
- 7 that Ms. Jacob had left the meeting by that point
- 8 as well?
- 9 A. She left the meeting
- 10 shortly after Mr. Moore left. She left the
- 11 meeting, yes.
- 12 O. All right. If we could
- 13 take down handwritten notes and go on that side of
- 14 it to overview document image 78. Paragraph 214
- is a note that -- or an e-mail you sent internally
- 16 at Golder five days later. If you could expand
- 17 the e-mail itself, Registrar.
- 18 So this is after the meeting
- 19 but it's talking about the meeting on the 9th.
- 20 And do you recall why you sent this internal
- 21 e-mail at the time, five days later?
- 22 A. I think I was shocked
- 23 about what I heard, and I considered this to be
- 24 very important so I wanted to share with our
- 25 senior people. Also I think I also send it to

1	Rabiah and Vimy but also with our senior people in
2	the company.
3	Q. In order to document the
4	meeting?
5	A. To document, yes.
6	Q. And in the third
7	paragraph, starts with "frictional
8	characteristics":
9	"I suggested applying
10	microsurfacing on HIR recycled
11	SMA, if they use HIR. This
12	would make the surface uniform
13	and offer good frictional
14	characteristics. Gary
15	rejected the idea. I then
16	recommended using skid abrader
17	or shot blasting, at least the
18	worst areas indicated in
19	Tradewind Scientific report,
20	to improve friction of the
21	current surface if they delay
22	resurfacing. Marco rejected
23	the idea for various reasons.
24	For information, I had
25	recommended this treatment

1	before when they let me know
2	about friction concerns on the
3	RHVP."
4	So did you specifically say
5	when you were recommending use of the skid abrader
6	or shot blasting did you refer back at that point
7	to the Tradewind report?
8	A. You know, if I said this
9	thing in way, that was very it was. I don't
10	recall the details, but if it's in my notes and
11	then I think I did.
12	Q. I'm not entirely sure
13	what you're saying there. Are you saying that at
14	the time that was your recollection of what you
15	had said?
16	A. At the time, yes.
17	Q. Take that down,
18	Registrar.
19	Is there anything else that
20	you recall from the meeting beyond what we've
21	already discussed and what was in your notes?
22	A. No, that I think is it
23	basically, my reaction and this is what we
24	discussed.
25	Q. And then you see on the

- 1 right-hand page, 76, there's some notes from
- 2 Mr. Becke's notebook and there's an entry dated
- 3 March 9, 2018. And there's a couple of ones,
- 4 there's "Gary no to microsurfacing" which I think
- 5 you've already talked about. That is the fourth
- 6 bullet.
- 7 The sixth bullet says
- 8 "friction numbers/weaker surface afterwards?" Do
- 9 you have any insight into what that is? Does that
- jog your memory as to any particular discussion
- 11 around that?
- 12 A. I would -- you know, this
- is what Mike said, but I would say this friction
- 14 numbers and weaker surface after, so probably
- 15 after hot in-place recycling, this is why I
- 16 recommended microsurfacing. Also I consider other
- 17 options. So that was probably related to this.
- Q. You can take those down,
- 19 Registrar.
- Now, with respect to the
- 21 British pendulum testing, you described them as
- 22 being unreliable because of the weather and the
- 23 temperature; is that right?
- A. Yes, it is.
- Q. And at the same time it

- 1 was anticipated -- I mean, you knew what the time
- 2 of the year was when the British pendulum testing
- 3 is going to be done, so that was something, and
- 4 you had your e-mail exchange with Ms. Rizvi that
- 5 we looked at last week that referred to that being
- 6 a potential issue, right?
- 7 A. Correct.
- Q. Okay. And the field
- 9 notes, I take it you would expect that field notes
- 10 would make mention of items, matters that were
- 11 affecting test results. That would be your
- 12 expectation, right?
- A. Yes, correct.
- Q. Now, there's -- we've
- 15 been unable to find any reference anywhere in the
- 16 field notes taken at the time of the testing that
- 17 would indicate that the temperature caused a
- 18 concern or that the snow created an issue or even
- 19 any reference to it at all. Do you agree with
- 20 that?
- 21 A. I don't remember the
- 22 notes but I think I talked to Amelia.
- Q. Sorry, you talked to who?
- A. To Amelia Jewison, the
- 25 engineer -- yeah, IT who was doing the testing.

- 1 Q. And she informed you
- 2 about it?
- 3 A. She informed me that
- 4 there was light snowfall and the temperature -- I
- 5 don't know if it's in her notes, but the
- 6 temperature was below zero and there was light
- 7 snowfall.
- Q. I can tell you that they
- 9 are not in there. Would you have expected that
- 10 there would be a reference in her notes if the
- 11 water that was being applied was freezing? Is
- 12 that something you would expect to see if that was
- 13 the case?
- 14 A. I think not necessary
- 15 freezing. I think whatever -- I know that later
- on I verified -- you know, after she told me I
- 17 look at the weather data, Hamilton, and I noticed
- 18 that it was light snowfall and temperature below
- 19 zero was included in the report.
- Q. Do you know how much
- 21 below zero it was?
- A. No, I don't recall, but I
- 23 assume somewhat below zero.
- Q. But I take it that she
- 25 didn't report to you that the water film was

- 1 freezing either since there was no mention of it
- 2 in the notes; is that correct?
- A. No, she didn't. And I
- 4 think -- I'm not sure about deicing chemicals
- 5 because I ask her what they use. Because I assume
- 6 that the City must've used some deicer during
- 7 weather like this, but I don't recall whether she
- 8 told me what she observed what was used.
- 9 Q. And again there is no
- 10 mention in the field notes of that, and you're
- 11 saying you have an assumption that deicing was
- 12 used by the City but you actually don't know that
- 13 to be the case; is that right?
- 14 A. No, I don't have any
- 15 records, but I would definitely anticipate the
- 16 City to use some deicing chemicals on the road.
- 17 O. And then is it fair to
- 18 say from this that you don't know that the result
- 19 -- the British pendulum test results were impacted
- 20 by the conditions at the time but you think that
- 21 they may have been affected; is that fair?
- A. I don't have records, but
- 23 I was of opinion that they were very likely
- 24 impacted by not only the weather, but also the
- 25 deicers.

- Q. Right. Which is again
- 2 something you don't know was actually applied?
- 3 A. No.
- 4 O. You assumed it was?
- A. I assumed it was.
- Q. In terms of the
- 7 temperature itself though, the temperature itself,
- 8 the concern there is that freezing will occur,
- 9 correct?
- 10 A. Yeah, because -- yes, it
- 11 is a wet test so -- and the same time I knew that
- 12 light snow was there and I think it's common sense
- 13 when the temperature is about zero, below zero,
- 14 that the City will do something from the deicing
- 15 point of view.
- 16 O. But that comes back to
- 17 the deicing, right, but Ms. Jewison didn't tell
- 18 you that the water was freezing, did she?
- A. No, she didn't. No, I
- 20 didn't -- I don't recall any conversation and her
- 21 telling me that the water was freezing.
- Q. I take it you would have
- 23 expected that she would tell you that or it would
- 24 appear in notes if in fact the water was freezing
- 25 at the time of the test?

- 1 A. I would probably
- 2 anticipate, but no, I don't recall her -- this
- 3 discussion with her.
- Q. Okay. And the ASTM
- 5 standard E303 for British pendulum testing,
- 6 that -- would you agree with me, and we can go to
- 7 it, but would you agree with me that it does not
- 8 set a temperature below which the testing cannot
- 9 occur. It just says that the temperature should
- 10 be recorded. Would you agree with that?
- 11 A. Yes. Just see what the
- 12 ASTM test says.
- Q. We should probably just
- 14 put that in the record and call it up. It's
- 15 MTO38701. Just to identify it, this is ASTM E303
- 16 standard for British pendulum testing, Doctor?
- 17 A. Yes.
- 18 MR. LEWIS: If we could just
- 19 mark that, Commissioner, as an exhibit. I believe
- 20 it's 83.
- THE REGISTRAR: Noted,
- 22 Counsel, thank you.
- 23 EXHIBIT NO. 83: Document
- 24 titled Standard Test Method
- 25 for Measuring Frictional

1 Properties Using the British 2 pendulum Tester (ASTM E303), 3 MTO38701 4 BY MR. LEWIS: 5 You can take that down. 0. 6 Thank you. 7 After the March 9th meeting I understand that you had some further 8 9 communications with Mr. Wiley from EcoPave and you 10 reported that you were more optimistic about the 11 use of HIR; is that correct? 12 Yes, it is. Α. 13 Q. Okay. So can we go to 14 images 76 and 77. So after -- at the bottom there 15 you'll see 208 you responded to Mr. Wiley's 16 earlier e-mail about HIR and SMA, and then at 5:30 p.m. the same day you e-mailed Mr. Moore, and 17 18 you refer at the top there. If you could call 19 that up as well, 210, Registrar. 20 Do you recall, did you have a 21 discussion with Mr. Wiley after the meeting with 22 the City? 23 A. Yes, I did. 24 Q. And he was more

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25

optimistic, so why was that?

- 1 A. He talked to his
- 2 associates and -- about this, the subject of first
- 3 how do you replace (ph) SMA. And then they agreed
- 4 that they -- it was feasible that they could do
- 5 it, and he ask me to send him -- I believe he
- 6 asked to send him a mix design of SMA. So I did
- 7 and that was his opinion. Now he says he -- they
- 8 can do it, or they can consider, yes, because....
- 9 yes.
- 10 Q. All right. Take that
- 11 down, Registrar.
- 12 At this point after the
- 13 March 9 meeting you have not delivered a report on
- 14 the Golder pavement evaluation. Did you form a
- 15 view from that meeting or other interactions about
- 16 whether Mr. Moore wanted you to deliver a report?
- 17 A. It's stated in my notes,
- 18 you know, what to do with results, and I had an
- 19 impression that he didn't, and I called Mr. Becke
- 20 a few days after and I ask him about this.
- Q. Okay. So the first thing
- 22 is where did you -- you're saying you had already
- 23 delivered the results. That's the first thing.
- 24 That's the first part of your answer?
- 25 A. I presented the results

- 1 during the meeting, yes.
- Q. Okay. All right. And
- 3 where did you get the impression that you referred
- 4 to about Mr. Moore?
- 5 A. No, during the meeting it
- 6 was -- you know, I tried to discuss it, but there
- 7 was no -- how can I -- there was no atmosphere to
- 8 discuss this subject because of what we discussed
- 9 before. So I didn't have any answer. But a few
- 10 days later I called Mr. Mike Becke who was the
- 11 project manager and I asked him about it.
- 12 Q. So if we could pull up
- images -- we already have 77 -- and also 79,
- 14 please.
- 15 And in paragraph 213 at the
- 16 bottom of image 77 you have a notebook entry from
- 17 March 13 stating:
- 18 "Hamilton talked to Mike
- 19 Becke and Chris Thompson, got
- 20 a call from Steve Manolis."
- 21 And then on the other page,
- 22 217 and 218 you e-mail Mr. Becke on March 15th
- 23 requesting a call about HIR and the RHVP. "There
- 24 is a significant amount of work that should be
- 25 done for this." And then 218 you have a note

- 1 referring to "Hamilton Mike Becke." It says
- 2 "test results leave them." "HIR." And then
- 3 "CIREAM polymer modified AC."
- 4 So first of all, why did you
- 5 call Mike Becke about -- I appreciate he's the
- 6 project manager, but why did you contact him about
- 7 whether you should deliver a report?
- 8 A. Because he was the
- 9 project manager and he was the engineer on this
- 10 project so he was the person in charge. That's
- 11 why I talked to him. That's why I called him.
- 12 Q. And then in your e-mail
- 13 to him stated that there is a significant amount
- 14 of work that should be done for this. Was this
- 15 with respect to the HIR, the hot in-place
- 16 recycling?
- 17 A. For hot in-place
- 18 recycling, yes.
- 19 Q. Okay. And what, in terms
- 20 of determining feasibility?
- 21 A. Yes, because, you know,
- 22 Mr. Pat Wiley said that they would consider but
- 23 there would still be a feasibility study required.
- 24 You know, is it feasible, and if, how to do it.
- Q. And so what -- you

- 1 contacted Mr. Becke. What did he tell you about
- 2 the -- delivering a report and anything else that
- 3 you discussed?
- A. So, you know, I don't
- 5 recall the detailed conversation, but my first
- 6 question was test results, what should I do with
- 7 the results. And my conclusion was to leave that.
- 8 Don't -- they didn't -- there was no request to
- 9 repeat the testing and I understood at that point
- 10 of time they didn't want a report, or didn't need
- 11 the report.
- 12 Q. Sorry, did Mr. Becke tell
- 13 you that or -- is this what you took it from it?
- 14 A. I think that was my
- 15 conclusion.
- 16 Q. And sorry, that was the
- 17 conclusion to not do a report based on the
- 18 testing. And what about the British pendulum test
- 19 results? You had referred to them as being
- 20 unreliable in the meeting and otherwise. What
- 21 about that? Did you discuss those results and
- 22 whether there should be any retesting done?
- 23 A. It is likely. I don't
- 24 recall the detailed conversation. It was still
- 25 March so it was still in winter. I think my

- 1 intention was basically to say should I put them
- 2 in the report and should I repeat, and my
- 3 conclusion was just say leave it, don't do it.
- 4 Q. And as you said, there's
- 5 going to be a lot of work done. There would be a
- 6 feasibility study done to determine whether HIR
- 7 could be done. Was that -- did you consider about
- 8 the -- whether that would impact the schedule for
- 9 repaying?
- 10 A. Most definitely. With a
- 11 feasibility study and also the mixed design for
- 12 hot in-place is a very complex so it would take
- 13 time.
- Q. Right, so I'm just
- 15 wondering if, given concerns that you had
- 16 expressed about friction on the Red Hill and your
- 17 suggestion of taking interim measures, whether the
- 18 length of time this was going to take is something
- 19 that you considered and discussed with anyone?
- 20 A. Sorry, I don't understand
- 21 the question.
- Q. You've just identified
- 23 that doing an HIR feasibility study is going to
- 24 take quite a bit of time.
- 25 A. Oh, yes.

- Q. Right? And so if that
- 2 impacting the repaving, the timing of the
- 3 repaying, I'm wondering if that's something that
- 4 you further discussed at that time with respect to
- 5 interim measures regarding friction?
- A. Not during that call on
- 7 under item 218, but what was discussed at the end
- 8 of the meeting on March 9th, that would be a very
- 9 important step to take.
- 10 Q. And Golder was engaged to
- 11 conduct the HIR suitability study. Do you recall
- 12 who engaged you and Golder to do that? How did
- 13 that come about?
- A. Oh, that hot in-place
- 15 feasibility study, so that was Mr. Becke, Mr. Mike
- 16 Becke. So he was my main point of contact on this
- 17 assignment.
- Q. Registrar, if you go to
- 19 overview document 9 starting on image 7 and 8.
- While he's pulling them up, am
- 21 I correct that Golder's project risk committee
- 22 became involved in this project?
- 23 A. Yes, yes. We concluded
- 24 and discussed the thing with our management that
- 25 involving project risk committee was necessary for

- 1 this assignment.
- Q. Why is that? When does
- 3 project risk committee get involved?
- 4 A. Because it was -- on one
- 5 hand it was innovative project, but on the other
- 6 hand, you know, the OPSS specifications,
- 7 provincial and municipal, said clearly don't do
- 8 it. So there was some (skipped audio) info. So
- 9 that is the policy of Golder, that they wanted the
- 10 risk committee to consider what is -- to go ahead
- 11 and if what steps should be taken.
- 12 O. Okay. And that includes
- 13 what contractual provision should be inserted into
- in any agreement with the City?
- 15 A. So from the contractual
- 16 point of view, there was some other aspect of
- 17 contractual. I think as -- when -- at that time
- 18 when we want -- so there was some contractual
- 19 aspect. Also if it was considered feasible and to
- 20 move ahead with it, what should be some
- 21 contractual aspect included in the agreement with
- 22 the City that would cover this additional risk of
- 23 this very significant innovation.
- Q. All right. And you did
- 25 determine -- Golder did determine to move forward,

- 1 correct, with the feasibility study?
- 2 A. Yes, the project risk
- 3 committee gave the okay to move ahead with this.
- Q. And if we could go to
- 5 pages 10 and 11. I understand you attended a
- 6 meeting with the City again on May 14, 2018; is
- 7 that correct?
- 8 A. Yes, it is.
- 9 Q. We have your notes from
- 10 that date, May 14, in paragraph 13 at the bottom
- 11 of page 10 and the top of 11. Registrar, if you
- 12 could expand those. Do you recall what the
- 13 purpose of this meeting was?
- 14 A. This meeting was about
- 15 hot in-place recycling after Mr. Wiley said that
- 16 they would consider using hot in-place
- 17 recycling -- they would consider HIR of the SMA on
- 18 the Red Hill Valley Parkway.
- 19 Q. Right. So it's about --
- 20 again about HIR?
- 21 A. Yes, it is.
- Q. Okay. Do you recall who
- 23 was at this meeting? There's a calendar
- 24 invitation in the prior paragraph to Mr. Andoga,
- 25 Mr. Perusin, Mr. Oddi, Mr. Renaud, and you. Do

- 1 you recall who was there?
- A. I don't have detailed
- 3 recollection. I would anticipate probably the
- 4 similar people that attended the previous one, but
- 5 no, I don't have detailed recollection.
- O. Was Mr. Moore there?
- 7 A. Yes, he was.
- Q. Was Mr. Oddi?
- 9 A. Yes, he was.
- Q. And Mr. Andoga?
- 11 A. I would have to check
- 12 on -- I know that he was on the previous one but
- on this one sorry, I don't recollect.
- Q. You don't specifically
- 15 recall. And Mr. Renaud?
- 16 A. I think he likely was.
- 17 O. And what about Mr. Becke?
- 18 A. Definitely was. I think
- 19 he was. I think he was. I think he arranged that
- 20 meeting.
- 21 O. He sent the invitation?
- 22 A. Yes.
- MS. JENNIFER ROBERTS: It
- 24 might help the witness if we could go to the
- 25 calendar invite which has these names on it.

- 1 MR. LEWIS: We could. I did
- 2 just read it to him, that these are the people on
- 3 the invitation, are the people I read to him.
- 4 MS. JENNIFER ROBERTS: You're
- 5 asking him for his memory and there is actually a
- 6 document on it so --
- 7 JUSTICE WILTON-SIEGEL: Which
- 8 document are you suggesting be put to the witness?
- 9 MS. JENNIFER ROBERTS:
- 10 (Inaudible).
- 11 MR. LEWIS: It's Golder 2860.
- MS. JENNIFER ROBERTS: Thank
- 13 you.
- 14 BY MR. LEWIS:
- 0. Mr. Andoga, Mr. Perusin,
- 16 Mr. Oddi, Mr. Renaud and you, sent by Mr. Becke?
- 17 A. Yes.
- Q. Does that assist your
- 19 memory as to who was actually there any further?
- 20 A. I think, yeah, the people
- 21 listed here, and definitely Mr. Gary Moore.
- Q. You can take that down,
- 23 please.
- 24 And how would you compare the
- 25 tone of this meeting compared to the one on

- 1 March 9th?
- 2 A. Drastically different.
- Q. More normal?
- A. More normal, yes.
- Q. And what can you tell us
- 6 about what was discussed at this meeting?
- 7 A. At this meeting, like,
- 8 the subject -- main subject was the feasibility of
- 9 hot in-place recycling. So EcoPave said they
- 10 would consider, but now the question is okay, so
- 11 what to do in order to determine if it's feasible.
- 12 So, you know, like more technical discussion,
- 13 sampling, because it would require a lot of
- 14 samples.
- 15 At that point of time was not
- only feasibility, but also if, then the mix
- 17 design, so would require a lot of material. And
- 18 Rick and -- so Mr. Andoga funding, and
- 19 specifications and other aspects of this -- yes,
- 20 at that point of time I think it was feasibility
- 21 plus potential mix design.
- Q. And on the second page
- 23 there, 11, the last part of notes where it says
- 24 "Mike is back on the 22nd," if you could just
- 25 expand that, Registrar, the last block of notes.

- 1 It says "Mike is back on the 22nd," then set it
- 2 says "Gary what is outstanding." Were these
- 3 notes taken before or during your --
- A. During -- I'm sorry.
- 5 During.
- Q. All of the notes or just
- 7 this portion? We can go to the actual notes if we
- 8 need to.
- 9 A. They look to me like all
- 10 of them were taken during the meeting.
- 11 MS. JENNIFER ROBERTS: Could
- 12 we please go to the note so we can clarify what
- is -- prepared in advance and what's prepared on
- 14 the day? I think that that might assist the
- 15 witness's memory.
- MR. LEWIS: Yes. It's GOL3874
- 17 at image 2, I believe. 2, yeah.
- 18 BY MR. LEWIS:
- Q. Can you tell what you
- 20 took before or during, or if it was a combination?
- 21 A. I think they look tidy,
- 22 but I think they were likely taken during, because
- 23 how would I know about Rick and funding. That
- 24 would be only -- that could come only during the
- 25 meeting. And Pamela and Heather Bell, that was

- 1 from Mr. Becke. So in my opinion that was during
- 2 the meeting.
- Q. The reference to Pamela
- 4 and Heather Bell, those are MTO people?
- A. MTO people, yes.
- Q. Mr. Becke related that to
- 7 you. Did you ever meet or discuss with Pamela
- 8 Marks or Heather Bell at the MTO regarding hot
- 9 in-place recycling for the City of Hamilton?
- 10 A. No, not for the City of
- 11 Hamilton, not SMA.
- 12 O. Okay. And then so at the
- 13 bottom, the Gary part where it says "what is
- 14 outstanding, "what's that referring to, do you
- 15 know?
- 16 A. Towards the end of the
- 17 meeting Mr. Moore said what was outstanding. So
- 18 break down for Mike, I think he must have repeated
- 19 that the PSV report is inconclusive, mask (ph) a
- 20 specific issue, hot in-place recycling. Pavement
- 21 condition blasting, that was -- no, that was after
- 22 he left.
- 23 Q. So I'll come back to that
- 24 last point in a second. You're saying that you
- 25 think Mr. Moore mentioned that the PSV results

- 1 were inconclusive again?
- A. I think -- no, if it's in
- 3 the notes, so he -- yeah, he repeated that PSV
- 4 report were -- or the result was inconclusive.
- Q. All right. Do you know
- 6 what you said about that to him?
- 7 A. I don't remember what I
- 8 said, but in my opinion there were pretty
- 9 conclusive. The results are what they are. 45 is
- 10 45. So it would be either inconclusive or
- 11 challenging what to do. But I didn't see anything
- 12 inconclusive. You know, they are what they are.
- Q. But you don't recall if
- 14 you said that to him or not?
- 15 A. I know I don't recall.
- 16 O. And then on the last
- 17 point about shot blasting or blasting, pavement
- 18 condition blasting notes, I think you said that
- 19 Mr. Moore had left the meeting by that point; is
- 20 that right?
- 21 A. That's correct.
- Q. Okay. So who did you
- 23 raise this to, the people that were remaining?
- A. Yes, correct.
- Q. And who said no?

- 1 A. Again, that would have to
- 2 be one of the two. I don't remember exactly who.
- 3 Marco, Mr. Marco Oddi would be the first and Mike
- 4 could confirm. But it's hard to for me because it
- 5 was during the (indiscernible) meeting, it's hard
- 6 to say who at what particular meeting. But it
- 7 would have to be -- that would be Marco or Mike.
- 8 Likely Marco, Marco Oddi.
- 9 Q. Okay. And was this again
- 10 about the interim time period if -- prior to the
- 11 resurfacing?
- 12 A. Yes, it was.
- MR. LEWIS: This would be a
- 14 good time for the break, Commissioner? It's
- 15 11:30.
- 16 JUSTICE WILTON-SIEGEL: Okay.
- 17 It's right on 11:30. Let's take a break and
- 18 return at quarter to 12:00.
- 19 --- Recess taken at 11:30 a.m.
- 20 --- Upon resuming at 11:45 a.m.
- 21 BY MR. LEWIS:
- Q. We're back, may I proceed
- 23 Commissioner?
- JUSTICE WILTON-SIEGEL: Yes,
- 25 please proceed.

- 1 MR. LEWIS: Thank you.
- 2 BY MR. LEWIS:
- Q. Now, Dr. Uzarowski, we
- 4 know that Mr. Moore's retirement internally was
- 5 announced in April 2018 stating that it would be
- 6 effective on May 25th, 2018. Were you aware at
- 7 the time of the May 14 meeting that Mr. Moore was
- 8 retiring?
- 9 A. No, I wasn't.
- 10 Q. At some point after that
- 11 you became aware?
- 12 A. At some point after that,
- 13 yes.
- Q. Okay. And did Mr. Moore
- 15 either at the meeting on the 14th or at any time
- 16 after, did he ask you to complete any outstanding
- 17 work?
- A. No, he didn't.
- 19 Q. All right. If we could
- 20 go to overview document 9, images 23 and 24.
- 21 And in paragraphs 51 through
- 22 56 there's references to the -- beginning on
- 23 June 6, 2018 that you e-mailed Mr. Becke copying
- 24 Vimy Henderson the proposal for the HIR study in
- 25 two phases; Phase 1 being the preliminary

- 1 investigation and specification development, and
- 2 Phase 2 for construction consultations and QA
- 3 field laboratory testing and acceptance.
- 4 And do you recall what the
- 5 timing was, the expected timing was of the study?
- A. Well, the timeline -- I
- 7 understand they wanted to have -- initially wanted
- 8 to have the sink (ph) area as soon as possible. I
- 9 don't recall the detail timeline for this.
- 10 Q. Okay. And I guess it's
- 11 called HIR suitability study. Is it the first
- 12 phase that's the -- really determining the
- 13 feasibility aspect of it, and then the second is
- 14 implementation; is that right?
- 15 A. Yes. So the first one
- 16 was to determine is it feasible and is the outcome
- of the Phase 1 was positive, then move to Phase 2
- 18 which was, you know, pretty complex, yes,
- 19 particularly the design.
- 20 O. Okay. If we could jump
- 21 ahead now to images 53 and 54.
- 22 And in paragraph 126 at the
- 23 bottom of 53 you see that on August 27, 2018 you
- 24 e-mailed Mr. Becke copying Vimy Henderson with a
- 25 copy of the Tradewind report. And you wrote the

- 1 top of 54:
- 2 "As requested, please find
- 3 attached the 2014 report on
- 4 friction on RHVP and the LINC
- 5 prepared by Tradewind
- 6 Scientific."
- 7 Now, it says "as requested."
- 8 Do you have any recollection about how it came
- 9 about that you came to send the Tradewind report
- 10 to Mr. Becke?
- 11 A. No, I don't know. I
- 12 don't recall. I don't recall whether he ask me or
- 13 he asked Vimy. I don't recall.
- Q. All right. So Vimy was
- 15 also involved in the HIR feasibility study?
- 16 A. Yes, she was.
- Q. Okay. Do you recall
- 18 why -- do you know why he requested it at that
- 19 time?
- A. No, no, I don't.
- 21 O. You have no recollection
- 22 of any discussion preceding you sending this to
- 23 him either with him or with Ms. Henderson; is that
- 24 right?
- 25 A. That's right.

1	MR. LEWIS: And as indicated
2	in paragraph 127, Commissioner, the inquiry has
3	not received any documents preceding this that
4	would shed any light on this issue.
5	BY MR. LEWIS:
6	Q. And do you recall if you
7	had any discussions about the Tradewind report
8	with Mr. Becke following your sending it to him?
9	A. No, I don't recall any
10	discussion.
11	Q. Go to images 97 and 98.
12	97. I guess it's at 97.
13	Paragraphs 241 and 242
14	indicate that Mr. Becke sent a calendar invitation
15	to you for a meeting on October 18th. And
16	Mr. Becke writes:
17	"Further to our discussion,
18	this meeting is to discuss the
19	HIP sampling for the RHVP. If
20	you are available at 1
21	o'clock, we also have a room
22	for presentation from
23	EnviroTech regarding their HIP
24	process. If you can come to
25	our office shortly before

- 1:00, I can bring you to the
- 2 presentation." (As read)
- 3 And then there is a follow-up
- 4 e-mail at paragraph 242 on October 16 from
- 5 Mr. Becke to you, again, regarding the meeting.
- 6 Do you recall the meeting on October 18th with the
- 7 City?
- A. Yes, I do.
- 9 O. And we do have some notes
- 10 of yours. If we can go, Registrar, to RHV933, and
- 11 it's images 857 and 858. I guess it's just -8.
- 12 Maybe it is 858 and 859. There we go. Okay.
- So can you tell us what this
- 14 meeting was about and why you were there.
- 15 A. So this meeting was -- I
- 16 was informed by Mr. Mike Becke that EnviroTech
- 17 will give a presentation on hot in-place
- 18 recycling. EnviroTech is another hot in-place
- 19 recycling company that's like former branch of
- 20 Crupi.
- 21 So only -- I invited myself,
- 22 or I ask Mr. Becke if he could invite me to that
- 23 meeting with EnviroTech because I was very
- 24 interested in the subject. So Mr. Becke agreed
- 25 but at the same time -- was it October the -- I

- 1 was working my very preliminary observation of
- 2 feasibility -- suitability of application hot
- 3 in-place recycling on the Red Hill Valley Parkway.
- 4 So the first time would be
- 5 that EnviroTech meeting, and then my -- the
- 6 presentation what I heard, but I know I was late.
- 7 I was late for this EnviroTech, but, you know, I
- 8 only, you know, took a note from what I -- the
- 9 part that I attended.
- Q. Right. And sorry, you
- 11 mentioned EnviroTech in relation to Crupi. You
- 12 said that they were related somehow?
- 13 A. I think EnviroTech is a
- 14 branch Crupi, the branch that took care of hot
- 15 in-place recycling.
- 16 Q. Okay. And do you recall
- 17 who was at this meeting?
- 18 A. Definitely Mr. Crupi, I
- 19 don't remember his first name, and Robert
- 20 Bowerman, he was the -- from EnviroTech. So I
- 21 think Rob was delivering the presentation. He was
- 22 the, you know, technical person or stage manager
- 23 for Crupi or for EnviroTech. So this was the
- 24 EnviroTech side, and there were a few people from
- 25 the City of Hamilton. I definitely know that

- 1 Mr. Becke was there because he was the one who
- 2 invited me. Who else? I think there was a group
- 3 of people, but I don't remember exactly who was
- 4 there.
- 5 Q. Okay. Do you recall if
- 6 Gordon McGuire was there?
- 7 A. No, he wasn't. He came
- 8 later, after the meeting with EnviroTech.
- 9 Q. I see, on the same day.
- 10 Okay. So you had the meeting with EnviroTech and
- 11 Crupi, and so what was the second meeting, then?
- 12 A. It was -- maybe a meeting
- is a big word for this. After, you know, this
- 14 team left, like, EnviroTech and people from the
- 15 City who attended, Mr. Mike Becke left, and I --
- 16 by that time I had this very preliminary analysis,
- including the plot of what would be required to
- 18 convert SMA to continuously graded mix that, you
- 19 know -- we initially called hybrid mix, but I
- 20 didn't like the word hybrid. I wanted this to be
- 21 FC2 mix. So my initial -- at that point of time
- 22 we're only gradation analysis what would be
- 23 required.
- Q. Okay. So sorry, did
- 25 you -- so you had this meeting. Mr. Becke was

- 1 there. Who else was there? You had also
- 2 mentioned -- I asked you about Mr. McGuire and you
- 3 said he was at a second meeting. Was he --
- A. So -- sorry, I
- 5 interrupted.
- Q. Was he there too?
- 7 A. It was -- no, my meeting
- 8 was with Mr. Mike Becke, but then Mr. Gord McGuire
- 9 came, and then he -- I think Mike introduce him to
- 10 me, and I introduced myself, and, you know, we
- 11 started talking about hot in-place recycling on
- 12 this.
- Q. Okay. And so what did
- 14 Mr. Becke and you discuss at the meeting?
- 15 A. My -- I brought the plot
- 16 of gradation, so my initial opinion at that point
- 17 of time that it would be extremely difficult to do
- 18 hot in-place recycling of SMA and to change the
- 19 gradation from upgraded SMA to dense graded FC2 --
- 20 Superpave 12.5 FC2 mix. It would be extremely
- 21 difficult and expensive. It would require
- 22 customized aggregates.
- Q. And what did Mr. Becke
- 24 tell you?
- 25 A. That after -- you know,

- 1 after I presented the results, I brought this. I
- 2 don't know, like maybe, you know, two copies, one
- 3 for him, one for me. I gave it to him, and then
- 4 he was interested in my observation, but then he
- 5 told me that the City decided to instead of using
- 6 hot in-place recycling to use shave and pave on
- 7 the Red Hill Valley Parkway.
- 8 Q. Okay. And so was
- 9 Mr. Becke, was his -- when he informed you of
- 10 that, was he referring to a decision that he had
- 11 just made following your presentation to him, if I
- 12 could call it that, or is this a decision that had
- 13 already made, as he conveyed it to you?
- 14 A. It's been already made.
- 15 So he just conveyed the message to me, but at the
- 16 same time he asked me to continue with my
- 17 evaluation.
- 18 Q. And did he tell you why
- 19 the City had decided not to use hot in-place
- 20 recycling, instead do the shave and pave?
- 21 A. No, he didn't. He just
- 22 let me know that they decided to go move with --
- 23 to go ahead with shave and pave.
- Q. And did he explain to you
- 25 why he wanted you to continue with the suitability

- 1 study in the report given that decision?
- A. He didn't -- I think he
- 3 said something like we're interested in this, so
- 4 please continue, don't stop, continue, move ahead,
- 5 we are interested. But why, no. I can only, you
- 6 know -- I can only speculate. No, he didn't.
- 7 Q. He didn't tell you?
- 8 A. No.
- 9 Q. Okay. And sorry, was
- 10 Mr. McGuire in the meeting during that part of the
- 11 discussion, or did he come in after that? Do you
- 12 recall when he came in?
- 13 A. He came in during my
- 14 conversation with Mr. Becke.
- 15 O. Okay. And if we could go
- 16 to GOL7415. Actually this might need to be a
- 17 native document, if we have it.
- I believe these are the
- 19 results that you were speaking of.
- 20 Do we have the native file for
- 21 that, Registrar, Golder 7415? There we go.
- 22 Are these the gradation
- 23 results that you were talking about, that you
- 24 brought to the meeting?
- 25 A. Yes --

- Q. Okay.
- 2 A. -- this is.
- Q. Right. And you gave
- 4 Mr. Becke as copy I think you said; is that right?
- 5 A. Yes, I gave him a copy of
- 6 this.
- 7 Q. Okay.
- 8 MR. LEWIS: And if we could
- 9 make that an exhibit, Commissioner. I believe
- 10 it's 84.
- 11 JUSTICE WILTON-SIEGEL: Sure.
- 12 EXHIBIT NO. 84: Test results
- 13 (4 pages), GOL7415.
- 14 THE WITNESS: I think a copy
- of the plot itself. I'm not sure about the tables
- 16 but the plot.
- 17 BY MR. LEWIS:
- 18 Q. The plot being the
- 19 graphing?
- A. The graphing, yes.
- Q. Okay. You can take that
- 22 down, Registrar, thank you. And if we could go to
- overview document 9, images 149 and 150.
- 24 And in paragraph 356 you see
- 25 that Mr. Gord McGuire forwarded an e-mail to you

- 1 from Ms. Jacob -- it was to Mike Becke on
- 2 November 28th, 2018. Oh, sorry, he forwarded --
- 3 sorry, I misread that. They had an exchange.
- 4 Mr. McGuire forwarded Ms. Jacob's to Mr. Becke on
- 5 November 28th. And there's a discussion there
- 6 where Mr. McGuire says:
- 7 "I talked to Ludomir last
- 8 night and he is bringing that
- 9 TSV report along today as he
- is meeting with you
- 11 apparently. Please bring it
- to me and I will review."
- 13 Mike Becke says."
- "I did not know he was coming
- in. I will bring you the
- 16 report once I get it."
- 17 Mr. McGuire says:
- 18 "Okay. He told me that last
- 19 night. Let me know if he
- 20 comes by. Thanks."
- 21 And then in 357 at the top of
- 22 the page Mr. Becke e-mails you to confirm that
- 23 you'll attending and that:
- "I will leave the office soon.
- I will bring boxes with the

- 1 results."
- 2 And then the same day you
- 3 e-mail Mr. McGuire attaching the mean texture
- 4 depth and polished stone results from the testing
- 5 that had been done on the Golder pavement
- 6 evaluation.
- 7 And so do you recall the
- 8 conversation with Mr. McGuire that gave rise to
- 9 this exchange?
- 10 A. No, I don't.
- 11 Q. Okay. Do you recall what
- 12 prompted Mr. McGuire to request the results, the
- mean texture depth and PSV results?
- 14 A. You know, he knew about
- 15 the work that we did, so he wanted to see these
- 16 results. He was definitely interested in, but I
- 17 don't recall.
- Q. He wanted them, but you
- 19 don't recall the specifics behind it?
- A. No, I don't.
- Q. All right. So if we
- 22 could expand at paragraph 358, Dr. Uzarowski's
- 23 e-mail.
- You have some comments about
- 25 it. You talk about the coring and testing and

- 1 that there was -- carried on the night of
- 2 December 6th and 7th, 2017. Then there was light
- 3 snow and negative temperatures during the testing.
- 4 And then in number 2 you refer to the PSV testing
- 5 and refer to the results as 45 as average or
- 6 medium for trap rock aggregates.
- 7 And is that the same
- 8 reference -- you referred a couple times back to a
- 9 paper by John Emery. Is that the same --
- 10 A. When I talk about a PSV
- of 45, yes, that was in the paper, yes.
- 12 O. Okay. And in the last
- 13 number there, you say:
- "Please note we attempted to
- 15 run the British pendulum test.
- 16 However, due to light snow and
- 17 negative temperatures the test
- 18 was considered meaningless."
- So we'll come back to that.
- 20 But if we could then,
- 21 Registrar, go to Golder GOL7431.
- 22 And is this the paper that
- 23 you're talking about? It's by B.S. Heaton and
- 24 J.J. Emery and N.A. Kamel, 1978.
- A. Yes, it is.

- Q. Okay. As I said, this is
- 2 referenced in the -- when you ultimately deliver
- 3 the pavement evaluation report in February 2019,
- 4 it's referenced -- this paper is referenced in
- 5 there, right?
- A. Yes, it is.
- 7 Q. All right. And it's in
- 8 1978 paper, and I want to go to paragraph 32 which
- 9 is at image 9.
- 10 THE REGISTRAR: Sorry,
- 11 Counsel, what was the page number?
- MR. LEWIS: 9, image 9.
- 13 THE REGISTRAR: Thank you.
- 14 BY MR. LEWIS:
- 15 O. Maybe it's image 8. One
- 16 more prior. Sorry, could you go back. And go
- 17 back one more. Oh, image 6. Must've written it
- 18 upside-down. Typed it upside-down. There we go.
- 19 Paragraph 32, it's the last
- 20 paragraph in the body of the paper. There's also
- 21 a figure earlier on, but this refers to -- in the
- 22 second sentence:
- 23 "The cases cover two of the
- 24 more widely used aggregates in
- 25 Ontario, limestone and trap

1	rock, with low and medium PSV,
2	41 and 45 respectively and two
3	aggregates of high PSV, blast
4	furnace slag 54 and steel slag
5	59."
6	Is that the reference to which
7	you were referring?
8	A. Yes, it is.
9	Q. Okay. If you could take
10	that down.
11	MR. LEWIS: If we can make
12	this an exhibit as well, please, Registrar,
13	Commissioner, would be 85.
14	THE REGISTRAR: All right,
15	counsel, thank you.
16	EXHIBIT NO. 85: Document
17	titled "Prediction of Pavement
18	Skid Resistance Performance",
19	GOL7431.
20	BY MR. LEWIS:
21	Q. Take that down and go
22	back to overview document 9, image 150.
23	And it was what I was
24	referring to in point 4 when you said the British
25	pendulum test results were considered meaningless

- 1 which seems to be stronger language than you used
- 2 previously when you referred to it as unreliable.
- 3 Did you intend to convey any different meaning
- 4 or --
- A. You know, no. You know,
- 6 it was the same meaning, the same meaning. They
- 7 were not reliable.
- Q. Okay.
- 9 A. I know I plotted them,
- 10 and I look at the trend, did it make sense. So
- 11 I -- but, you know, roughly many case is the same.
- 12 Well, it's for me was the same, meaningless or
- 13 unreliable.
- Q. Okay. Did you at this
- 15 point -- notwithstanding the views about the
- 16 unreliability of the British pendulum test
- 17 results, had your views changed at all at this
- 18 point in time about the Red Hill Valley Parkway
- 19 friction and having relatively low friction?
- 20 A. No, they were still the
- 21 same.
- Q. Okay. And if we could go
- 23 to next image, 151. Paragraph 363 on November 29,
- 24 Mr. McGuire e-mailed you.
- 25 And if you could just expand

- 1 that e-mail at 363, please. Thank you.
- The files on the project, I
- 3 have a copy of the original proposal, and then he
- 4 says:
- 5 "That proposal suggests you
- 6 will provide recommendations
- 7 after the testing. Can you
- 8 supply the final report on
- 9 this testing when you can.
- 10 I'm meeting with our legal
- 11 team early next week because
- they are looking for all our
- files on this project." (As
- 14 read)
- 15 Is this first time you've been
- 16 asked to prepare the pavement evaluation report?
- 17 A. For the -- yes, it is.
- Q. Okay. So you can take
- 19 that down, and if we could go to images 183 and
- 20 184, please. In paragraph 436, which spans the
- 21 two pages, and could you just expand that e-mail,
- 22 436.
- 23 And this is Mr. Becke writing
- 24 to you on December 6, 2018. And it's about the
- 25 HIR, hot in-place recycling, suitability study,

1	and he's following up on that, and he's requesting
2	the report you from you. He's indicating:
3	"As per our conversation I am
4	writing to let you know we
5	will need the report before
6	the Christmas shutdown. The
7	report can be in draft format,
8	but I will need the
9	information soon to move
10	forward with questions." (As
11	read)
12	And he's referring to this
13	resurfacing being a priority with council at this
14	point. And then:
15	"In the interim, I have a
16	meeting coming up next week
17	that some of the preliminary
18	information would be useful to
19	have for that meeting. Is it
20	possible to get a PDF copy of
21	the graphs you showed me in
22	our HIP meeting back in
23	October? It will show that we
24	are working on the asphalt mix
25	

1	status of the gradations and
2	what we would get with a
3	proposed change via HIP."
4	Now, am I correct from what
5	you've said previously that on October 18th
6	Mr. Becke had informed you that the City had
7	decide not to use hot in-place recycling?
8	A. Yes, correct.
9	Q. Okay. And did you have
10	any discussions with him he says, "further to
11	our conversation next week." Did that remain the
12	case, that they were not going to be proceeding
13	with HIR to your knowledge?
14	A. To me it was clear, right
15	from that meeting that hot in-place recycling was
16	only at the evaluation or investigation stage, not
17	implementation.
18	Q. Did that knowledge affect
19	your approach to finalizing it or timing to
20	finalizing the suitability study?
21	A. No, no, I, you know I
22	still had to deliver this thing as soon as
23	possible about, but also I needed a lot of
24	laboratory testing results from our lab in Whitby.
25	Q. Okay. All right. If we

- 1 could go to -- take that down, please.
- 2 And just before that at 434
- 3 and 435, right before the e-mail we were just
- 4 looking at, these refer to December 6th e-mails
- 5 about arranging a meeting between you and Mr. Gord
- 6 McGuire on December 18th, so Mr. McGuire e-mailed
- 7 Ms. Cameron requesting that she set up a meeting
- 8 the following week with you, and she contacted
- 9 you, and ultimately it was scheduled for
- 10 December 18th. Do you recall who requested this
- 11 meeting in the first place?
- 12 A. I thought that I did,
- 13 but, you know, the records show something
- 14 different, so it must've come from Mr. McGuire.
- O. Okay. Well, I mean, it
- 16 simply indicates there that he's asking
- 17 Ms. Cameron to arrange the meeting. Apart from
- 18 that do you have a recollection of asking for the
- 19 meeting in the first place or no?
- 20 A. I don't have a particular
- 21 recollection of asking for the meeting, but I
- 22 remember that I wanted to meet with him.
- Q. Okay. And why did you
- 24 want to meet with him?
- 25 A. Why I wanted to meet with

- 1 him. Because I -- you have this thing in your
- 2 records, but I talk to my mentor, Dr. Michael
- 3 Maher, and I talked to (indiscernible) Hamilton so
- 4 we had a discussion about this, and then he
- 5 advised me, meet with the City with Mr. McGuire
- 6 and tell him everything that you know and the
- 7 history of the pavement on the Red Hill Valley
- 8 Parkway.
- 9 Q. Okay. Then, but -- fine,
- 10 but what prompted to wanting to do that? That's
- 11 the -- that's, then, the purpose of the meeting,
- 12 but what was the reason for wanting to have the
- 13 meeting at this point in time?
- 14 A. They were concerned with,
- 15 you know -- of course I talked to him about the
- 16 death article, about fatalities, about concern
- 17 with frictional characteristics of the pavement
- 18 there and also about particular -- about what I
- 19 heard that the City didn't -- decided not to do
- 20 anything, to avoid the blame we discuss. So I
- 21 talked to Michael, and this is what he advised me.
- Q. Sorry, you said that --
- 23 not to doing -- to avoid the blame that we
- 24 discussed. Do you mean to avoid being blamed for
- 25 something?

- A. You know, it is like --
- 2 to us, one, this is what I was told by the City;
- 3 that they decided not to do anything, not to admit
- 4 the guilt and not to be blamed for this. So this
- 5 is the City. And at the same time, you know, I
- 6 was concerned that the City may try to blame
- 7 Golder for what we advised and they decided not to
- 8 follow, not to do.
- 9 Q. Okay. And did any of
- 10 that have to do with the reference in the e-mail
- 11 that we talked about before on November 29th when
- 12 Mr. McGuire referred to the legal team's
- 13 involvement?
- 14 A. Oh, definitely, you know,
- 15 I think it is because I talk -- I know I talked to
- 16 our senior management. I talked to our legal
- 17 counsel, so that was discussed and that was a
- 18 significant point.
- Q. And I'll just -- we're
- 20 not asking you at any point to tell you (sic) what
- 21 the discussions were with legal counsel. If
- 22 you -- just so you know, I'm not asking you
- 23 specifically for those communications.
- A. Sorry, there was some
- 25 misconnection for the -- you know, this last

- 1 sentence, I didn't hear what you said.
- Q. Oh, I just -- I'm not
- 3 asking you specifically for communications that
- 4 you had with legal counsel at Golder. As I expect
- 5 Ms. Roberts will take the position that those
- 6 communications are privileged, so I'm just
- 7 anticipating her jumping in.
- 8 Okay. And did you and
- 9 Mr. McGuire have a discussion and understanding
- 10 about this meeting in advance, any ground rules
- 11 for the meeting?
- 12 A. I don't know, you know,
- 13 at what particular time, but, you know, we
- 14 discuss, you know, how this meeting would look
- 15 like, and we agreed that it would be face to face.
- 16 So it would be Mr. McGuire with myself because we
- 17 talk about -- like, if the City wants to have a
- 18 lawyer to be present, then I would bring our
- 19 lawyer with me. But the final agreement was no,
- 20 just face to face, a friendly exchange of
- 21 information.
- Q. Okay. And were you aware
- 23 at the time this meeting was scheduled that the
- 24 Tradewind report or the Golder report had been
- 25 located within the City? Is that something that

- 1 you had become aware of?
- A. No. I think Mr. McGuire
- 3 told me during the meeting.
- Q. Okay. So we'll get to
- 5 that. There's -- if we could go, Registrar, to
- 6 RHV933. So your transcription of your typewritten
- 7 notes at image 866. And these are notes from
- 8 December 10 and December 12, 2018. So it's after
- 9 the meeting is being scheduled for the 18th of
- 10 December but before the meeting itself.
- 11 Do these -- what are these
- 12 notes referring to? Do you recall?
- A. So the first one, the
- 14 first one was my face-to-face meeting with
- 15 Dr. Maher, and, you know, I presented the case and
- 16 our conversation.
- Q. Sorry, that's Michael
- 18 Maher at Golder who you referred to previously?
- 19 A. Yes. He was my mentor,
- 20 and he was a principal and senior engineer, and
- 21 this is our discussion notes from our discussion
- 22 on December the 10th.
- Q. I see. Okay. And
- 24 December the 12th, it also refers to Mr. Maher at
- 25 the top.

- 1 A. Yeah. I don't remember
- 2 exactly what -- Hamilton rock tunnel was, you
- 3 know, this nuclear waste material, so it was not
- 4 related to Hamilton.
- Q. Okay. All right. It
- 6 says on the December 10 note, the fourth one under
- 7 number one. It says, "should send the report."
- 8 What report is that referring to?
- 9 A. Let me see where it is.
- 10 Q. It's the fourth bullet
- 11 under number 1, "should I send the report."
- 12 A. Yes, should I -- what to
- 13 say, "should I send the report."
- 14 JUSTICE WILTON-SIEGEL: Could
- 15 I suggest that you put this note up in its
- 16 original form.
- 17 MR. LEWIS: It is. Golder
- 18 GOL7497.
- 19 MS. JENNIFER ROBERTS: At
- 20 image 72 I think.
- MR. LEWIS: At image 72. If
- 22 you could blow that up, please. Thank you.
- 23 THE WITNESS: So your question
- 24 about the --
- 25 BY MR. LEWIS:

1 Yeah, "should I send the Ο. 2 report," what is that referring to, what report? 3 Α. Should I send. I think 4 it was about the Golder report 2014. 5 Oh, okay. And do you Ο. 6 recall what you decided? 7 Α. I don't recall whether I brought this report with me, but I know that 8 Mr. McGuire showed me a copy of that report -- of 10 the Golder report. 11 Q. In the meeting on the 12 18th? 13 During the meeting, yes. Α. 14 Q. Okay. All right. But 15 you think it does refer to the Golder in any 16 event? A. I think it -- this is the 17 18 Golder report. 19 Q. Okay. It says: "Tradewind, some concerns but 20 21 not drastic and skid 22 resistance a contributory 23 factor." (As read) 24 Are these things that you were

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25

telling Mr. Maher?

- 1 A. Yes, this is what I
- 2 discussed with Michael.
- Q. Okay. And skid
- 4 resistance a contributing factor to what?
- 5 A. You know, skid resistance
- 6 or skid resistance number are only one factor in
- 7 frictional characteristics of the pavement. So
- 8 this is only one factor. There are a number
- 9 factors that impact the frictional
- 10 characteristics, so this is, like, just to refresh
- 11 my mind on this point.
- 12 O. Okay. So it's
- 13 contribute -- that skid resistance is a
- 14 contributing factor to friction?
- 15 A. To friction or skid
- 16 resistance is, like, you know -- it was -- the
- 17 meaning was skid resistance numbers. So, you
- 18 know, when we measure there were only numbers. So
- 19 this is only one of the factor of what we call
- 20 frictional characteristics of the pavement. There
- 21 are large number of factors, but this is -- that's
- 22 the only one that impacts --
- Q. So you're talking also
- 24 about macrotexture?
- A. Oh, macrotexture, and

- 1 then, you know, other items like, you know,
- 2 everything, speed and, you know, factors related
- 3 to roadway, driveway, so it's like roadway --
- Q. Okay.
- A. -- driveway, yeah and,
- 6 you know, this -- a large number of items.
- 7 Q. Right. But -- so is
- 8 what -- your meaning there, then, and I'm just
- 9 going the suggest is that your meaning, it's one
- 10 of the contributing factors; skid resistance is
- one of the contributing factors to collisions.
- 12 It's one of them. There's a number of
- 13 contributing factors as you describe, but it's a
- 14 contributing factors to collisions?
- 15 A. Well, I think what John
- 16 Emery called a safe aspect. You know, we call
- 17 it -- typically we call it frictional
- 18 characteristics, yes. Yeah.
- 19 Q. Sorry, I get the
- 20 frictional characteristics.
- 21 A. Yeah.
- Q. I understand that, but I
- 23 just want to get to the end point. You're saying
- 24 here that skid resistance is a contributing -- one
- 25 of the contributing factors to collisions in this

- 1 instance? Was that your --
- MS. JENNIFER ROBERTS: That's
- 3 not the word he's using.
- 4 MR. LEWIS: Well, I don't -- I
- 5 don't know. He's a --
- 6 JUSTICE WILTON-SIEGEL: He can
- 7 put the --
- 8 MR. LEWIS: -- a number of
- 9 words.
- JUSTICE WILTON-SIEGEL:
- 11 Ms. Roberts, he can put the question.
- 12 MS. JENNIFER ROBERTS: Fair
- 13 enough. He's just trying to push language that
- 14 the witness has never used. And I'm -- I guess,
- 15 fair enough to do the cross-examination, but I'm
- 16 conscious of -- you're trying to get to an end
- 17 here, or it seems the question he's trying to get
- 18 to an end, and I'm not sure is supported in any of
- 19 the evidence that was given.
- MR. LEWIS: All I'm,
- 21 Commissioner, asking is because he talked about a
- 22 number of -- he said that there's a number things
- 23 which include -- into skid resistance and then
- 24 referred to a number things. And I said it's like
- 25 macrotexture, and he went on to talk about other

- 1 things as well, which I take as meaning, and we
- 2 can agree or not, are things which are
- 3 contributory as a whole to -- potentially to
- 4 collisions.
- JUSTICE WILTON-SIEGEL: Right.
- 6 I think you can put the question and Dr. Uzarowski
- 7 can answer whether he agrees with your
- 8 characterization or not.
- 9 THE WITNESS: I would, you
- 10 know -- do you want me to answer right now?
- 11 BY MR. LEWIS:
- Q. Yes, please.
- 13 A. So I think collisions are
- 14 a much, much higher step, I think. Because for
- 15 collisions there are a large number of factors.
- 16 So I think, you know, at this point of time I'm
- 17 talking only about the skid resistance numbers.
- 18 So those numbers that we measure. So this is only
- 19 this one piece, one line in what was John Emery
- 20 shows as number factors that impact the safety
- 21 of -- on the pavement. So it's -- yeah, at this
- 22 point I was thinking one factor contributing to
- 23 frictional characteristics of the pavement. This
- 24 I remember John always emphasized.
- Q. You're talking about in

- 1 the "Get a Grip" presentation --
- 2 A. Yes.
- Q. -- that you referred to a
- 4 number times?
- A. Yes, yes.
- Q. Okay. And it's just --
- 7 again, you use -- you said, impacting on the
- 8 safety of the pavement. So, again, that's the end
- 9 point. That's the -- it's one of the many
- 10 contributing factors to safety; is that right?
- 11 A. Yes. This is what John
- 12 shows in his presentation, so that's one line.
- 13 This is this one line. This is like, you know,
- 14 the piece of pavement that is -- contributes to --
- 15 I would say -- contributes -- there are such large
- 16 number of factors, it's like -- I think this is
- 17 the factor contributing to frictional
- 18 characteristics from the pavement; that's the
- 19 numbers.
- 20 O. Thank you. And then the
- 21 December 12th note, the last one number 11 refers
- 22 to a report for Gord Hamilton. Do you know what
- 23 that refers to?
- 24 A. Yes. That was the draft
- 25 report on the 2017 investigation.

- Q. Right. Okay. And so
- 2 then if we could take those down, and if we could
- 3 go to images 214 and 215 of overview document --
- 4 sorry, of overview document 9. Apologize.
- 5 Overview document 9, 214 and 215.
- 6 And it's -- paragraph 526 sets
- 7 out your notebook entries. It continues on to the
- 8 next page from December 18th, and do you recall
- 9 meeting with Mr. McGuire on December 18th, 2018?
- 10 A. Yes, I do.
- Q. And where was that?
- 12 A. In Hamilton in his
- 13 office.
- Q. Okay. And it indicates
- 15 from -- it says, from about 10 to 11. Now, can
- 16 you tell us what your -- when you took these
- 17 notes. Of course we can always go to the
- 18 originals if we need to. But did you take these
- 19 before, during or both?
- 20 A. Generally these were my
- 21 preparation notes, but during the meeting I
- 22 also -- I added some additional comments, and at
- 23 the end I also wrote and CIMA.
- MS. JENNIFER ROBERTS:
- 25 Commissioner, can we please go to the original

- 1 notes, so Golder 7404, image 40?
- JUSTICE WILTON-SIEGEL: I
- 3 think we should.
- 4 MR. LEWIS: Golder 7404?
- 5 MS. JENNIFER ROBERTS: That's
- 6 what I've got.
- 7 MR. LEWIS: Sorry, I'm just
- 8 trying at the same time to find the typewritten
- 9 notes for my own benefit. Although, these are
- 10 quite neatly written.
- 11 BY MR. LEWIS:
- Q. So from this can you --
- 13 there's also I think another page. If you could
- 14 go to the next image for a moment. You referred
- 15 to this part about CIMA which I think is that last
- 16 part there. Is that the additional part you were
- 17 talking about?
- 18 A. Yes. That was during the
- 19 meeting or right after. I think this was during
- 20 the meeting.
- 21 Q. Okay.
- 22 A. At the end of the
- 23 meeting.
- Q. Okay. And then going
- 25 back to the previous image, please, Registrar.

- 1 And what about these? Were
- 2 these all taken before the meeting or in
- 3 something -- any of them taken during?
- A. Generally, you know,
- 5 these were my preparation meeting for the --
- 6 preparation notes for the meeting, but I -- it's
- 7 likely that I added some comments during the
- 8 meeting.
- 9 Q. Okay. All right. As we
- 10 go along perhaps you could let us know if there's
- 11 something pertinent that pops out in that regard?
- 12 At A it says, "hand out the
- 13 draft report." Is that the Golder pavement
- 14 evaluation report that you just referred to?
- 15 A. Yes, it is, 2017 report.
- Q. Okay. So if we could
- 17 keep these notes up are, Registrar, but also pull
- 18 up HAM54182.
- 19 And is it dated December 17,
- 20 2018? Is this report you're talking about?
- 21 A. Yes, it is.
- Q. All right. And this is
- 23 an unsigned copy of that report.
- 24 Maybe if we can keep both of
- 25 those up. I just hear some drilling which I

- 1 believe is coming from above us, so hopefully that
- 2 won't continue.
- 3 So did you actually give
- 4 Mr. McGuire a copy of this report?
- 5 A. Yes, I did. I think it
- 6 was still a draft, I think, stamp on this thing.
- 7 This is the one, yes.
- Q. It's certainly unsigned
- 9 in any event.
- 10 A. No, it's not.
- 11 Q. Sorry, it's not signed?
- 12 A. It's not signed.
- Q. Right. Okay. And so
- 14 hand out the draft report. You did give him a
- 15 copy, and then maybe you could tell us how the
- 16 meeting proceeded.
- 17 A. If we can make little bit
- 18 because I -- a little bit bigger.
- 19 Q. Maybe expand the
- 20 left-hand page of the notes.
- 21 A. Thank you very much.
- Q. Yeah. Well, maybe I'll
- 23 start with the -- with D just to begin with. You
- 24 wrote beforehand, I take it, "Present the history
- of SMA on RHVP. Do not use names, just say the

- 1 City." (As read)
- 2 What does that mean about not
- 3 using names? Do you mean not using individual's
- 4 names?
- 5 A. Sorry, I missed, you
- 6 know -- the picture was frozen for the last --
- 7 Q. Okay.
- 8 A. -- sentence or two
- 9 sentences.
- 10 Q. So the fourth line under
- 11 1B says, "Present the history of SMA on RHVP. Do
- 12 not use names, just say the City." (As read)
- What that's referring to?
- 14 Does it mean not mentioning the names of
- 15 individuals?
- I think Dr. Uzarowski might
- 17 have frozen.
- MS. JENNIFER ROBERTS: Yeah.
- MR. LEWIS: Okay.
- 20 MR. JENNIFER ROBERTS:
- 21 Dr. Uzarowski is frozen again I think.
- 22 (DISCUSSION OFF THE RECORD)
- 23 MR. LEWIS: Okay. It may
- 24 be -- I'm going to suggest that we try to proceed
- 25 right now, but if it continues to be a problem,

- 1 that maybe we should take an earlier lunch to make
- 2 sure that we can resolve the issue and don't lose
- 3 time as a result of it. That would be my
- 4 suggestion. If that makes sense, Commissioner.
- 5 JUSTICE WILTON-SIEGEL: I
- 6 think that a good suggestion. Let's proceed and
- 7 see how we do.
- 8 MR. LEWIS: Okay.
- 9 BY MR. LEWIS:
- 10 Q. So if we could pull these
- 11 back up, Registrar, the notes.
- 12 Is Dr. Uzarowski frozen again?
- 13 I believe he is. And is everyone having that
- 14 issue with him? I'm not seeing a problem with
- 15 anyone else. I just want to make sure that it's
- 16 not at our end. I don't think it is.
- MS. CONTRACTOR: We're having
- 18 the same issue.
- 19 UNIDENTIFIED VOICE: We are as
- 20 well.
- MR. BUCK: Dufferin is too.
- 22 THE WITNESS: I can see it
- 23 now.
- 24 MR. LEWIS: Okay. I'm going
- 25 to try, but if it freezes again, Commission, I

- 1 think should just give him that --
- 2 JUSTICE WILTON-SIEGEL: If it
- 3 freezes one more time, we'll take our lunch break.
- 4 BY MR. LEWIS:
- Q. Okay. So, Dr. Uzarowski,
- 6 in your notes at 1(b) it says, "Present the
- 7 history of SMA on RHVP. Do not use names, just
- 8 say the City." (As read)
- 9 What's that referring to?
- 10 A. Yeah. Well, I presented
- 11 the -- you know, the brief history of placing and,
- 12 you know -- of using SMA on the Red Hill Valley
- 13 Parkway, and, you know, the -- I didn't use
- 14 name -- I just -- names of particular people
- 15 involved. I just say, the City.
- Q. Okay. And why is that?
- 17 Why did you write that note, that reminder to
- 18 yourself?
- A. Because it was -- you
- 20 know, I think that what I discuss with Dr. Maher,
- 21 that, you know, it was just a friendly exchange of
- 22 information just to let them know the history of
- 23 this, so I didn't want to use -- to blame any
- 24 particular person. If Mr. McGuire wanted to ask
- 25 me, he could ask me. I had no problems with this.

- 1 But at this point of time there was just friendly
- 2 exchange of information.
- Q. Right, but isn't a -- I
- 4 mean, a friendly exchange of information, would
- 5 that not include indicating who the individuals
- 6 were involved at various time periods so
- 7 Mr. McGuire would have an appreciation of that and
- 8 could ask questions accordingly?
- 9 A. If he could -- you know,
- 10 if he was interested, he could ask me. I have no
- 11 problem. But there was so many people involved
- 12 like Mr. Moore, Mr. Oddi, Mr. Becke and, you know,
- 13 other people. So at this point of time I think
- 14 discuss -- we said, okay, we will just say the
- 15 City.
- 16 Q. Okay. And do you recall
- in the conversation did you hold to that, only
- 18 using the City and not using individual names? Do
- 19 you recall?
- 20 I believe Dr. Uzarowski has
- 21 frozen again so....
- 22 Commissioner, can I suggest we
- 23 then take a break and see if --
- 24 JUSTICE WILTON-SIEGEL: Let's
- 25 take our lunch break now. We'll return at

- 1 2 o'clock. And Ms. Roberts, if you and your
- 2 office can communicate with Dr. Uzarowski's office
- 3 that would be appreciated. Hopefully --
- 4 MS. JENNIFER ROBERTS: Of
- 5 course.
- 5 JUSTICE WILTON-SIEGEL: --
- 7 this can all be resolved by 2 o'clock. Thank you.
- 8 Stand adjourned until that time. Thank you.
- 9 --- Recess taken at 12:44 p.m.
- 10 --- Upon resuming at 2:00 p.m.
- 11 MR. LEWIS: Good afternoon,
- 12 Commissioner. I understand we have a better
- 13 connection with Dr. Uzarowski. May I proceed?
- JUSTICE WILTON-SIEGEL: Yes,
- 15 please proceed.
- MR. LEWIS: Thank you.
- 17 BY MR. LEWIS:
- Q. Dr. Uzarowski, when we
- 19 left off, it had got a little jagged at the end
- 20 there. I was asking you about your note.
- 21 And if the Registrar could
- 22 pull up the last -- the December 18, 2018
- 23 handwritten note. Yeah, both pages. That's
- 24 great. Thank you.
- 25 And the part about -- under

- 1 1(b), do not name names, just say the City, and I
- 2 asked you about that. Did you in fact keep
- 3 individual names out of it during the meeting with
- 4 Mr. McGuire?
- 5 A. I think later on I -- I
- 6 think in one of the statements I talk about
- 7 Mr. Gary Moore.
- Q. Okay. And do you recall
- 9 in relation to what --
- 10 A. It was -- sorry, for
- 11 interrupting you. Sorry. I'm sorry.
- 12 O. In relation to what
- 13 issues?
- 14 A. I think it was when I
- 15 delivered the hard copy on February -- I think
- 16 February the 7th, 2014, then, he wasn't
- 17 particularly happy with me in mailing him the
- 18 report a few days before. So I think that was the
- 19 only part that I recall that I mentioned some
- 20 names.
- Q. Okay. And so I see in
- 22 (f), item (f) near the bottom of the left-hand
- 23 side there, it says, "2017, hired Tradewind
- 24 Scientific for skid testing report early 2014."
- 25 (As read)

- 1 And then the first bullet is
- 2 "No e-mail with report requested by the City."
- 3 (As read). And then second bullet "hard copy
- 4 delivered, discussed."
- 5 So you did send an e-mail with
- 6 the report of course -- with the Golder report and
- 7 the Tradewind report to Mr. Moore. I think it was
- 8 January 31st, 2014. So can you tell us what this
- 9 note is reflecting?
- 10 A. This particular note, so,
- 11 you know, I just let Mr. McGuire know that in 2013
- 12 we hired Tradewind Scientific to do skid testing,
- 13 and the report was delivered early 2014, and, you
- 14 know, that -- no e-mail with report requested by
- 15 the -- so this is like, you know, what I mentioned
- 16 before, that Mr. Moore was not happy that I
- 17 e-mailed him the report, and then hard copy was
- 18 delivered at the beginning, so it was February
- 19 the 7th, 2014 and discuss.
- Q. Sorry, are you saying
- 21 that note, though, about no e-mail with report
- 22 requested by the City, is that a reference you're
- 23 saying to the fact that Mr. Moore was not happy
- 24 with it being e-mailed, or are you saying there
- 25 that it was not sent by an e-mail?

- 1 A. No, your first statement
- 2 that --
- Q. Okay.
- 4 A. -- he was not
- 5 particularly happy with me e-mailing the report to
- 6 him.
- 7 Q. Okay. And so this is a
- 8 note that you made before the meeting; is that
- 9 correct?
- 10 A. Yes, it is. Yes.
- 11 Q. Okay. And so why were
- 12 you writing that in advance? What did you think
- of relevance of that point would be?
- 14 A. Because I wanted to make
- 15 sure that I would not miss anything. It was,
- 16 like, in my opinion that was significant that
- 17 Mr. McGuire should know about this.
- Q. Had a question been
- 19 raised with you about there not being a record of
- 20 it having been sent?
- 21 A. I recall that -- I think
- 22 early -- during that meeting he showed me a copy
- 23 of my report. So it wasn't only Tradewind, but a
- 24 copy of Golder -- this bulky, 200 pages of
- 25 something report with Tradewind Scientific

- 1 attached, but the hard copy of our report.
- Q. Right. But you wrote
- 3 this note, as I understood it, prior to the
- 4 meeting?
- 5 A. Yes.
- Q. And so I'm asking if
- 7 prior to the meeting it had been raised with you,
- 8 or you were aware that there was no record of the
- 9 report having been e-mailed to Mr. Moore?
- 10 A. No, I don't recall prior
- 11 to. I think I was -- I was, you know, pretty
- 12 pleased that he showed -- Mr. McGuire showed him
- 13 my report, and no, I don't think that I knew it
- 14 prior to the meeting.
- Q. Okay. Why were you
- 16 pleased that he showed your report? Did you have
- 17 some suspicion that it had not been shared?
- 18 A. No, because it was
- 19 always, you know, Tradewind, Tradewind, Tradewind,
- 20 but in my opinion Tradewind was only a part of
- 21 that assignment. You know, the important thing
- 22 was the entire report where we provide our
- 23 recommendations for the treatment -- addressing
- 24 the issue on the Red Hill Valley Parkway.
- Q. Right. I'm just coming

- 1 back to the note from your discussion with
- 2 Mr. Maher from I think it was December 10th that
- 3 we discussed before lunch, where one of your notes
- 4 was a question about whether or not you should
- 5 share the report, and you indicated that you
- 6 thought that referred to the Golder report itself.
- 7 So, again, I'm wondering if
- 8 you had a concern or if you had been -- if anyone
- 9 had told you that it had not been -- that the
- 10 Golder report had not previously been shared
- 11 within the City.
- 12 A. I think it wasn't a
- 13 concern about sharing because I think I didn't
- 14 know at that time. But it was -- you know, the
- 15 intention was just to show Mr. McGuire what we did
- 16 and what we recommended.
- 17 O. Okay. Item D in your
- 18 note refers to "use technologies for skid
- 19 improve" -- I assume that means improvement -- and
- 20 then it goes on to list microsurfacing, shot
- 21 blasting, skidabrading, blasting, Blastracing and
- 22 then other very expensive....
- 23 What is -- what are these
- 24 referring to? Are these about the methods of the
- 25 friction improvement that you had suggested?

- 1 A. Yes, they are.
- Q. Okay. Because it said
- 3 "use technologies." I'm just wondering if there
- 4 was a different context?
- 5 A. No, this was -- use
- 6 technologies that we recommended that might -- in
- 7 the report there was only microsurfacing, but
- 8 later on we recommended also other treatments.
- 9 Q. Okay. And then at the
- 10 bottom of the left-hand note and with an arrow to
- 11 the right it says, "the skid hazard is still
- 12 there" with an exclamation mark, and then the
- 13 arrow goes over to what as appears to be the
- 14 paragraph on the right-hand page. Is this
- 15 something that you discussed -- or you told
- 16 Mr. McGuire?
- 17 A. Yes, it is.
- Q. Okay. And does the arrow
- 19 by "the skid hazard is still there," is that
- intended to reference that paragraph J?
- 21 A. Yes. So basically I --
- 22 you know, I wanted to squeeze everything into two
- 23 pages, and there was no room at the bottom, so I
- 24 put it on the previous page, but I put an arrow to
- 25 talk about this after item J.

1	Q. All right. And does
2	the item J, does that indicate what you told
3	him?
4	A. Yes, yes. Yes, it is.
5	Q. Okay. Now if we could
6	pull up if we could keep that up or at least
7	the left hand of the image perhaps or the whole
8	thing is fine, and then pull up HAM54182 which is
9	the draft report that you brought to the meeting
10	with you that we briefly talked about. And then
11	if you go to the second image. At the very bottom
12	where it says "as discussed with the City," the
13	very bottom paragraph there. It says:
14	"As discussed with the City,
15	if there is a concern with
16	frictional characteristics of
17	the SMA surface course on the
18	RHVP an immediate effective
19	solution would be to carry out
20	blasting/skidabrading of areas
21	of concern."
22	On and then if you could go
23	to the next page, Registrar on the existing
24	pavement surface. "The treatment is quick and
25	relatively low cost." (As read)

1 I'm wondering about the 2 language when you say "if there is" --3 "As discussed with the City, 4 if there is a concern with the 5 frictional characteristics of the SMA surface course." (As 6 7 read) 8 Why that language, the if? 9 You did have a concern, did you not? 10 Α. I think it was maybe not 11 very fortunate language, but, you know, SMA (ph) not a safety consultant, and it would require 12 13 safety evaluation to say what the impact of 14 particular factors is, and I didn't know about --15 when I was preparing this report, I didn't know 16 about CIMA. So that was my concern that time. 17 Okay. In the meeting, Ο. 18 though, you referred to -- as per your notes --19 skid hazard, and yet, in -- and in here it says, 20 "if there is a concern." That just seems to be a rather different emphasis. Would you agree? 21 22 Yes. I think it was a Α. 23 fortunate statement. Obviously I was -- I had 24 some concerns about the skid numbers. I recommended treatment, particularly this interim

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- 1 that they could do right away. So obviously it
- 2 was my concern, and also at the same time it's
- 3 like -- something like you can improve one factor
- 4 quickly and at low cost. And so it was -- the
- 5 intention was just do this simple -- apply this
- 6 simple low-cost treatment to address one factor.
- 7 Q. And then in the note at
- 8 the top of the second page of the note -- yeah, if
- 9 we can expand it, it says, "micro, blasting no
- 10 PSV." Do you know what that refers to?
- 11 A. So basically that would
- 12 be like, you know, extremely brief summary of my
- 13 discussion with Mr. Gary Moore. Apply
- 14 microsurfacing or if -- you know, if cost is an
- issue, et cetera, so use blasting or skidabrading,
- 16 and, you know, I also say that no PSV, it means
- 17 that the decision was not to do -- not to repeat
- 18 PSV testing in 2014.
- 19 Q. Oh. So you're referring
- 20 back to 2014 that you did not have PSV results at
- 21 that time?
- 22 A. No, no. So it was like
- 23 when we met with Mr. Moore on March the 7th, 2014,
- 24 so we talk about my --
- 25 Q. I think -- let me just be

- 1 clear, is it February 7th? I think it was
- 2 February 7th.
- A. Sorry, I thought -- yeah,
- 4 it was February. Sorry, if I made an error, I
- 5 apologize. It was on February the 7th, 2014 I met
- 6 with Mr. Gary Moore, and we talk about
- 7 microsurfacing, blasting, and I ask him if he
- 8 wanted us to do PSV, and the decision was, no,
- 9 don't do the PSV; it was already on the DSM.
- Q. Okay. Thank you. And
- 11 then in point (g), if you can take that down,
- 12 Registrar. Well, actually I guess it was already
- 13 up there. I apologize. Yeah, thank you.
- 14 Refers to "LU contacting
- 15 contractors, final decision no." (As read)
- What's that referring to?
- 17 A. So at the end of 2015 and
- 18 2016 we talk about bump -- dips and bumps, and
- 19 skid improvement recommendations, and that I
- 20 contacted Skidabrader and Blastrac -- so these
- 21 contractors -- and, you know, presented this to
- 22 Mr. Moore, but his final decision was no. He was
- 23 not interested in using this technology.
- 24 Q. Okay.
- 25 A. And this report on dips,

- 1 that was added during the meeting, report on dips.
 2 And so the last part of item (g), it was added
- 3 during the meeting that Mr. McGuire requested.
- Q. Oh, the -- right. A
- 5 report on that, which there had not been a report?
- A. No, no. Initially he
- 7 thought it was report, but we had only this
- 8 e-mail. No, we had only Excel spreadsheet and the
- 9 map, so he requested this thing to be sent to him.
- 10 Q. Okay. And then there's
- 11 a -- under (i) there's a reference to PSV texture,
- 12 British pendulum number and so forth and then the
- 13 meeting on March 9th. And then:
- 14 "Discussed HIR, results
- 15 presented considered
- inconclusive, no report.
- 17 Explained by the City people
- 18 that they cannot do is shot
- 19 blasting because this would
- 20 show the public that there is
- 21 a problem with RHV-admitting
- guilt and getting the blame."
- 23 (As read)
- 24 A. Yes.
- Q. Okay. So what's that

- 1 referring to? Is that what you've described
- 2 previously about -- in the meetings in -- earlier
- 3 in 2018?
- 4 A. Yes, that was -- I think
- 5 it was March the 9th, 2018 meeting, and that was
- 6 the part of after Mr. Moore and Susan Jacob, and
- 7 that was our discussion. This is what I was --
- 8 the message that was conveyed to me.
- 9 Q. And then on the next page
- 10 of your note you refer to it. If we go to that,
- 11 Registrar. And I think this says:
- "I was informed that the City
- is working with CIMA, safety
- 14 aspects on RHVP, including
- speed, geometry, loading."
- 16 (As read)
- 17 I don't know if friction is
- 18 included. I think you indicated that that note
- 19 was written during the meeting; is that right?
- 20 A. It was during or just
- 21 right after, but that was -- you know, I think it
- 22 was probably during the meeting.
- Q. Okay. And there's a
- 24 reference to CIMA. And you've said previously
- 25 that it was at this meeting with Mr. McGuire that

- 1 it was the first you were aware of it. Is that
- 2 the case, this is the first you became aware of
- 3 CIMA's involvement with respect to the Red Hill?
- A. Yes, it is.
- Q. Okay. And what was
- 6 Mr. McGuire's reaction to your -- you had your
- 7 agenda. You told him what you were going to tell
- 8 him. Was he on receive for all this, or did he
- 9 have -- what you've already referred to, for
- 10 example, requesting the report and then
- 11 spreadsheets from the dips and bumps testing and
- 12 so forth? Did he have anything to say in response
- 13 at this point?
- 14 A. So I think he appreciated
- 15 the meeting and the information that I shared with
- 16 him. He wasn't particularly happy that I talk
- 17 about speed and volume. So at the end he just
- 18 almost, you know, just made a clear impression to
- 19 me that, you know, speed and volume was none of my
- 20 business, that there was other consultant taking
- 21 care of this, and then, you know, safety
- 22 consultant who would take -- who would look at
- 23 safety aspects on the Red Hill Valley Parkway.
- 24 And he -- you know, so he told -- he told me about
- 25 CIMA, but I don't think he showed me any report.

- 1 It was just he told me that CIMA was taking care
- 2 of safety aspect and collisions, including
- 3 speed -- so he didn't want me to talk of anything
- 4 about speed or volume or this aspect.
- Q. Okay. And is that --
- 6 there is a reference in the draft report to that.
- 7 Was it -- was there discussion about that at that
- 8 time?
- 9 A. Yes. Initially I
- 10 included our concern with speed and volume of
- 11 traffic. I don't know if any other aspects, but
- 12 then we discussed this thing with our legal
- 13 counsel, and we concluded that the decision
- 14 was since it was included in the CIMA report, that
- 15 I couldn't move it from the final version of the
- 16 report.
- 17 O. Okay. And taking out any
- 18 discussions with legal, was that at Mr. McGuire's
- 19 request? There is some correspondence
- 20 subsequently where he asked you to remove it.
- 21 A. No, it was after his
- 22 request to remove it, but -- so he requested
- 23 removal of this aspect. I discussed with our
- 24 legal counsel, and since CIMA was doing this
- 25 thing, that decision -- well, okay, CIMA was

- 1 covering this aspect; we can remove it from our
- 2 final report.
- Q. Okay. And is there
- 4 anything else pertinent -- that occurred during
- 5 the call that we haven't discussed?
- A. Well, there are certain
- 7 aspect that I raised before. I don't know whether
- 8 this is what you mean. But in the middle -- like
- 9 towards the end of the conversation there was a --
- 10 some sort of interruption. This is what you want
- 11 me to talk about?
- Q. Well, just -- I want you
- 13 to say anything pertinent, but that's one thing,
- 14 sure.
- 15 A. Yeah. Because it was
- 16 supposed to be face-to-face meeting, and towards
- 17 the end of the meeting there was some interruption
- 18 on the phone. I think -- my impression was that
- 19 somebody stepped in someone room and say, like,
- 20 you know, some noise, like, you know, what's up or
- 21 something like this, and Mr. McGuire was I
- 22 think -- I don't know not embarrassed but, you
- 23 know, stressed, so he started to reduce the volume
- 24 in the phone. So I -- I don't know. Like my
- 25 personal impression that somebody listened to our

- 1 conversation.
- Q. Okay. So if we could go
- 3 to overview document 9 -- take that down,
- 4 Registrar -- images 220 and 221.
- 5 Paragraph 534 to 36, you
- 6 e-mailed Mr. McGuire about the meeting and thanked
- 7 him for the meeting and then raised the concern
- 8 that:
- 9 "Towards the end of the
- 10 conversation you reduced the
- volume on the stationary
- phone. This surprised me as I
- thought we were the only
- 14 people participating in the
- meeting. Could you please
- 16 clarify if our conversation
- 17 was recorded or if others were
- 18 listening through the speaker
- 19 phone." (As read)
- 20 Is that what you were
- 21 referring to?
- 22 A. Yes, it is.
- Q. Okay. And you can take
- 24 that down, Registrar, actually. I guess it's just
- 25 535 Mr. McGuire's response the same day. It says:

1	"No. There was no recording
2	or anyone else listening
3	during the meeting. There was
4	a call in, and I reached over
5	to reduce the ringer volume.
6	My office is secure and there
7	was no intent to capture
8	anything but the overall
9	discussion via notes." (As
10	read)
11	And so was your impression
12	about this this was just based on what happened
13	during the meeting; is that right?
14	A. Yes, this is what
15	happened during the meeting and also my impression
16	after the meeting.
17	Q. What happened after the
18	meeting that caused you to think that someone had
19	been listening in?
20	A. Mr. McGuire walk me to
21	the door, and it was, you know, a friendly
22	atmosphere, and there was a person passing, and
23	Mr. McGuire got very aggravated at him, unusual.
24	And also I saw Mr. Moore walking from roughly
25	where we met in other direction, so I that was

- 1 my concern that somebody listened to our
- 2 conversation.
- Q. Sorry. Did you recognize
- 4 the person that you perceived Mr. McGuire being
- 5 angry at that was passing by?
- A. No, I didn't know that
- 7 person.
- Q. Okay. And then you also
- 9 saw Mr. Moore, Gary Moore, walking nearby?
- 10 A. Yes. He was walking from
- 11 the location where roughly the meeting was to
- 12 other location in the office.
- Q. All right. And just so I
- 14 understand. It was because Mr. McGuire reduced
- 15 the volume on the phone because that's what it
- 16 appeared to you that he was doing?
- 17 A. I think -- you know, I
- 18 didn't know exactly what he was doing, but for me
- 19 it wasn't a ring; it was somebody stepped in, and
- 20 that noise was not a ring.
- Q. Okay. It was like you
- 22 heard someone on the other end, is that what you
- 23 mean?
- 24 A. Yes. Like somebody
- 25 entered the room and said something, so I heard

- 1 somebody on the other end.
- Q. Okay. And did anyone
- 3 tell you at any point that the meeting was
- 4 recorded or someone was listening in?
- A. No, nobody told me.
- 6 Q. Okay. And were you aware
- 7 of any practice among staff in your experience of
- 8 recording meetings or listening in on them
- 9 surreptitiously?
- 10 A. No, I didn't. I think
- 11 our agreement was clear.
- Q. Right. And did you
- 13 accept Mr. McGuire's explanation?
- A. I didn't respond, but --
- 15 I didn't agree with it.
- Q. But you still believe
- 17 that someone was listening in; is that right?
- 18 A. That's correct.
- 19 Q. Okay. You can take those
- 20 down, Registrar, and go to images 250 and 251.
- 21 And -- this is at paragraph 609.
- It's a long e-mail from you to
- 23 Ms. Rizvi which you ask her to review, and which
- 24 you indicate you intend to send to Dr. Skinner,
- 25 Mr. Linardi and Dr. Mahar for their records. And

- 1 can you describe what the purpose was of writing
- 2 this.
- 3 A. The purpose was because
- 4 they knew, Dr. Skinner, Mr. Linardi and Dr. Maher,
- 5 they knew about the meeting that I was supposed to
- 6 have with Mr. McGuire, so I summarized the
- 7 conversation and I wanted to send it to them just
- 8 for the records.
- 9 Q. Okay. So a recounting of
- 10 the meeting the prior month on December 18th?
- 11 A. Yes, it is.
- 12 O. Okay. I think that one
- 13 thing that does not appear in there is what we
- 14 were just discussing, which is the issue about
- 15 someone potentially listening in. I don't see any
- 16 reference to that in this e-mail. Do you know why
- 17 that is absent?
- 18 A. Well, I didn't put this
- 19 thing in writing, but I discuss this thing with
- 20 Mr. Linardi.
- O. Well, I don't want to
- 22 know what -- if we're talking about a privileged
- 23 conversation with legal counsel, I'm not asking
- 24 you for that, but -- and we know that you
- 25 addressed it directly to Mr. McGuire. But aside

- 1 from discussions that you had with Mr. Linardi, is
- 2 there a particular reason why you did not include
- 3 that in here?
- A. No, no. No, it's not.
- 5 It was just like a summary of facts; what was
- 6 discussed during the meeting. So no, this is --
- 7 this is just -- I didn't think it was necessary to
- 8 include this thing in this.
- 9 Q. All right. If we could
- 10 go to images 215 and 216.
- 11 And paragraph 527 is --
- 12 reproduces Mr. McGuire's notes relating to the
- 13 meeting. And there's one thing I wanted to ask
- 14 you about which is on image 216 on the right.
- 15 Registrar, if you could --
- 16 yeah, that's fine. Thank you.
- 17 The sixth line from the bottom
- 18 indicates:
- 19 "Forced to say this; was told
- 20 the City wouldn't want to
- 21 admit there is an issue to
- 22 address." (As read)
- 23 Do you know what that refers
- 24 to, and does that ring a bell as to what you
- 25 described to Mr. McGuire?

- 1 A. Yes. It was like -- the
- 2 City of Hamilton was my client, so it was not nice
- 3 to me to say this, but I was -- maybe not -- I was
- 4 forced to say what I was told. So I respected the
- 5 client. It was a very good client, but I had to
- 6 say what I was told.
- 7 Q. Okay. And what you were
- 8 told was what? I mean, it says, "wouldn't want to
- 9 admit there is an issue to address." (As read)
- 10 Does that go back, again, to
- 11 the issue that you were discussing about -- that
- 12 it would be admitting a problem if there was some
- 13 friction improvement methods undertaken?
- 14 A. Yes. The City told me
- 15 that they couldn't do anything because that would
- 16 admit that there was a problem, they would get the
- 17 blame, and they would get the blame for this.
- Q. You can take that down,
- 19 Registrar.
- 20 And there are a lot of
- 21 communications between you and Mr. McGuire
- 22 following the meeting -- we already looked as a
- 23 couple of them -- following the meeting on
- 24 December 18th. We're not going to look at all of
- 25 them. But in general could you describe your

- 1 impressions of the tone and approach as those
- 2 communications progressed.
- A. I think the tone has
- 4 changed. It was more, I would say, maybe not the
- 5 best word like aggressive -- so the tone has
- 6 changed from what it was initially. Yeah. So
- 7 that -- yeah, it has changed significant.
- Q. Okay. Now if we could go
- 9 to images 221 and 222.
- 10 And so there's an -- so this
- is showing an e-mail from you on December 21st,
- 12 2018 responding to Mr. McGuire's e-mail on
- 13 December 18th which is earlier. But your response
- 14 includes, in red, a sort of imbedded response each
- 15 of his questions. And without reading through
- 16 it -- but essentially as I understand it you're
- 17 answering his question saying there is no standard
- 18 for skid number requirements in Ontario; that the
- 19 British pendulum numbers from December 2017 aren't
- 20 reliable, and you give him contact information for
- 21 three companies for shot blasting or skidabrading
- 22 to improve friction, just as a summary; is that
- 23 fair?
- A. Yeah, it's fair. Also
- 25 there was some, like, you know -- I think --

- 1 because I know even this particular e-mail
- 2 Mr. McGuire -- so in the previous -- previously
- 3 you said that PSV was okay or sufficient. I say,
- 4 no, we didn't say sufficient; we say medium. So
- 5 there was like this sort of -- but overall, yes,
- 6 this is correct, your summary is correct.
- 7 Q. So I think that's a
- 8 subsequent e-mail where you have that discussion
- 9 about that, and we'll come -- about the PSV?
- 10 A. Oh, yes.
- 11 Q. That's in the subsequent
- 12 e-mail, so we'll come to that. Let's not jump
- 13 ahead.
- A. Oh, sorry.
- 15 O. But it's the third point
- 16 I want to discuss at the top of 222, and you
- 17 indicate at the very top --
- 18 Maybe if you could expand the
- 19 top paragraph there on 222. Thank you. That's
- 20 fine.
- 21 A. Thank you. Thank you.
- Q. And this is when -- you
- 23 know, this is in response to his request for
- 24 references for the use of the shot blasting
- 25 method. And you indicate:

Τ	"As discussed during our
2	meeting on Tuesday and
3	previously within the City the
4	concern and skid potential on
5	the RHVP is still valid and
6	the City should consider how
7	to address this."
8	And I'm wondering about the
9	use of the word "should consider." Is that a
10	does that term "should consider" have a particular
11	meaning in engineering consulting?
12	A. Yeah. That was my
13	recommendation that this is like, you know,
14	going back to previous recommendation of applying
15	these interim treatments. So in my opinion it
16	should be considered.
17	Q. It should be considered.
18	Does that mean it's a recommendation that should
19	be done? I mean, should consider, the way you've
20	just described, means that you should think about
21	it, I think. Or does it mean that it's something
22	that is a recommendation that should be done?
23	A. It's for me it's a
24	delicate but I would say should consider in
25	the meaning for me was as a recommendation, should

- 1 be done.
- Q. Okay. Thank you.
- 3 And if you could go to
- 4 overview document, same overview document, 244 and
- 5 245, those images.
- 6 And I think this might be the
- 7 one that you were referring to before about TSB,
- 8 but this is in paragraph 590. January 13, 2019 he
- 9 responded to your December 21st, 2018 e-mail, and
- 10 there's a number of items. How did you interpret
- 11 the overall approach of his e-mail? And we can
- 12 expand it if you like.
- 13 You can do that, Registrar.
- 14 The e-mail at 590 at the bottom and the top of the
- 15 next page. At the top he says:
- 16 "Thanks for the updates on the
- 17 file and I have a few more
- 18 questions and updates for
- 19 you."
- 20 That's a bit cut off I think.
- 21 A. You know, my opinion it
- 22 was that -- it was becoming more aggressive.
- Q. A little bit more
- 24 positional?
- 25 A. More positional, yes, and

- 1 also something -- you know, like I mentioned this
- 2 PSV -- maybe not here, but, like, twisting what we
- 3 said because -- yeah, that was my general
- 4 impression.
- Q. Okay. We'll come to the
- 6 PSV thing in a second. In the middle paragraph
- 7 Mr. McGuire -- well, no, it's the one with the red
- 8 text. In your response below in point 3, you
- 9 indicate that:
- 10 "The concern about skid
- 11 potential on the RHVP is still
- 12 valid and the City should
- consider how to address this."
- 14 However, in the draft report
- on the bottom of page 2 you wrote that:
- 16 "As discussed with the City if
- 17 there is a concern about the
- 18 frictional characteristics of
- 19 the SMA surface course on the
- 20 RHVP, can you please provide
- 21 clarity on these statements."
- 22 (As read)
- So he's talking about that
- 24 same thing that I asked you about, about if there
- 25 is a concern. And did you later change the

1 language in the final draft on that point? 2 Α. Yes. In the final 3 version of the report, I -- we removed that 4 sentence. 5 Ο. Okay. And in the second 6 paragraph it says: 7 "Both of the MTD and PSV elements are identified as 8 9 adequate and the City will 10 require a framework to measure them against. Public works is 11 12 submitting a report to the PW 13 committee early in February 14 and will require this 15 information." (As read) 16 Is that what you were talking 17 about before about the use of the term adequate 18 for PSV? 19 Α. Yes. Because I don't know if this -- on the next e-mail I corrected 20 21 that. I didn't say it was adequate because for --22 hot in-place recycling, I considered this thing 23 not adequate. 24 Right. Give me one Q.

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moment. Just bear with me for one moment if you

25

1 would, please. And in the red line there I'm just 2 noticing this. He said: 3 "In your response below in 4 point 3 you indicate that 'the 5 concern about skid potential on the RHVP is still valid and 6 7 the City should consider -- no that's right -- how to address 8 9 this." (As read) 10 Okay. No, I apologize. I thought it said something else. Move on. 11 12 Okay. If we could go to 13 images 267 and 268. 14 So this is a response to 15 Mr. McGuire's e-mail from you on January 18th 16 responding to his January 13th e-mail. And just 17 to cover off what you were just speaking of. 18 The first paragraph, if you 19 could expand that, Registrar. This is about the 20 PSV and the use of the term adequate. Is this what you were referring to? 21 22 A. Yes, it is. 23 Ο. Okay. And you indicate: 24 "We do not state the PSV was identified as adequate, which 25

1	you state below. We stated
2	that: 'The corrected PSV of
3	the tested aggregates was 45.
4	This value is considered to be
5	average/medium. As discussed
6	during the meeting there is a
7	concern that an aggregate with
8	a PSV of 45 will not provide
9	sufficient long-term
10	frictional characteristics if
11	the surface course asphalt mix
12	is subjected to hot in-place
13	recycling.'" (As read)
14	Now, you indicated that it
15	was Mr. McGuire was becoming more aggressive,
16	and I suggested the word "positional", which you
17	agreed with. Is it fair to say that this e-mail
18	is more forceful and positional than your previous
19	e-mails?
20	A. Yes. Because this
21	statement that would you know, our
22	recommendation upside-down, we said, no, it's not
23	suitable, and now if I said adequate, I would say,
24	no problem. So it was as you read this is the
25	position of being positional.

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- 1 Q. I'm not being critical.
- 2 I'm just being observational.
- A. Yeah, yeah. This is,
- 4 like, you know, that was my conclusion.
- 5 Q. Okay. If you could take
- 6 that down, Registrar, just so we can see the whole
- 7 part.
- 8 And on that you deal with a
- 9 number of issues in there, but in the first
- 10 paragraph when you say that the PSV of 45 is
- 11 insufficient to maintain long-term frictional
- 12 characteristics if HIR is used in referring to
- 13 recycling the aggregates, would that not also
- 14 apply to the existing surface?
- 15 A. This is like I -- you
- 16 know, we recommended interim improvement --
- 17 O. Right.
- 18 A. -- so this is we -- you
- 19 know, we -- I know it is just this one element,
- 20 one factor, one item, but, you know, for me it was
- 21 very obvious. It cheap, quick, do it and improve
- 22 it. Will you solve everything, no, but you will
- 23 improve this one particular thing.
- Q. Right. But my question
- isn't really about why you didn't mention it here.

- 1 That isn't what I mean. I just -- just asking
- 2 substantively is the same concern -- exist (ph) if
- 3 it's going to -- if there's a concern about
- 4 whether you can maintain adequate frictional
- 5 characteristics with a PSV of 45 in a recycled
- 6 pavement? Am I correct that the same would a
- 7 apply to the non-recycled pavement; is that fair?
- 8 A. In my opinion recycled
- 9 pavement would be long term. So, let's say if I
- 10 had 45 now and, you know, as I stated before that
- 11 that was relatively low, but if I use the same
- 12 aggregate, it's 45 today; it would not get better.
- 13 It would go -- only go down, so it could only get
- 14 worse. There are no miracles that it would
- 15 suddenly come up, so it would be -- it's not
- 16 today. We will be looking at 10, 15 or something
- 17 years. It can only get worse.
- Q. But you're not going to
- 19 get an improvement from it?
- A. No. Unless you do
- 21 something like shot blasting or something in the
- 22 future, but without anything, no, it will not go
- 23 up. It will not improve.
- Q. Okay. Can we go to 271,
- 25 272.

1	Th	nis is another long e-mail
2	from Mr. McGuire on G	January 20th responding to
3	yours that we just lo	ooked at from the 18th of
4	January, and it runs	onto the next page.
5	Ir	n the first paragraph he
6	refers to our convers	sation last week that preceded
7	your e-mail of the 18	8th to him. Do you recall
8	what that conversation	on was about or what you
9	discussed? He just s	says but he says:
10	п <u>-</u>	In that conversation we
11	ag	greed that providing a
12	re	eference framework to your
13	dı	raft report was required to
14	рі	covide context to your
15	f	indings."
16	Do	you recall that discussion?
17	A	. If he says, we must have
18	had probably telephor	ne conversation, but I don't
19	recall details of the	is.
20	Q	. And then in
21	paragraph 4 and if	maybe you could call up 4
22	and 5, Registrar. Ye	eah. And here he indicates
23	that:	
24	" 7	What Golders has provided in
25	th	nis assignment is a series of

1	measurements, and your review
2	of those results, with
3	recommendations based upon
4	unknown standards. As the
5	client this does not meet our
6	requirements of the
7	assignment."
8	And then he goes on to talk
9	about the speed and traffic volumes being outdated
10	and doesn't refer to the most current studies done
11	by another consultant, which I think you had
12	indicated before you understood to be CIMA at that
13	point.
14	With respect to the first
15	paragraph there, what was your reaction to that
16	statement?
17	A. My reaction was that
18	probably Mr. McGuire anticipated that there was a
19	clear standard for friction testing and friction
20	requirements in Ontario, like OPSS or other
21	standards, but so I think this is what he
22	understood, but this thing doesn't exist in
23	Ontario, so I wasn't able to reference something
24	that didn't exist.
25	Q. Okay. And in the next

- 1 paragraph about the speed and traffic data, had
- 2 you been provided with any CIMA reports or work
- 3 product by this point?
- A. Sorry, what was -- not
- 5 from the City, no.
- Q. Or anyone else directly
- 7 from CIMA?
- A. No, not from CIMA, not
- 9 from the City.
- 10 Q. Okay. And was it
- 11 following this admonition from Mr. McGuire that
- 12 you removed from the draft pavement evaluation
- 13 report the references to traffic volume and speed?
- 14 A. Yes. I talked to our
- 15 legal counsel, and then there was an agreement
- 16 that, you know, since CIMA is doing this thing, we
- 17 can remove it.
- Q. Okay. You can take that
- 19 down, Registrar. And then in the next paragraph
- 20 there it starts:
- 21 "There are a series of reports
- 22 being generated for committee
- 23 and council on this matter."
- 24 And it says:
- 25 "I have included a section on

1	the 2017 Golder's assignment,
2	and hope I can have sufficient
3	details to be able to provide
4	a complete context on the
5	results. My report is due
6	Monday to the GM, and I had
7	expected results with the
8	framework to address the lack
9	of reference standards. My
10	report will include this
11	element and discussion around
12	the meaning of results." (As
13	read)
14	I read as he's requesting that
15	you provide like a final report to him. Is that
16	how you understood it at this point?
17	A. Yes. Correct.
18	Q. Okay. But there wasn't a
19	final report, and we'll look at it, but I think
20	it's February 28th is the date of the final
21	pavement evaluation report. Do you know what
22	the why the time lag?
23	A. It was yeah, we I
24	discuss this thing with our senior management, so
25	the report was going to our senior people for

- 1 review, came back to me and then again to the them
- 2 and also to our legal people, so this is why it
- 3 took time.
- Q. Take that down,
- 5 Registrar. If we could go to -- there's a note on
- 6 January 29th of yours. If we could go to RHV933,
- 7 image 45, please. No, that can't be right. One
- 8 moment. Sorry, it would be near the end,
- 9 Registrar. I just seem to have the wrong
- 10 reference there.
- 11 JUSTICE WILTON-SIEGEL: I'm
- 12 wondering whether it's the document that is shown
- 13 as image 45 which appears right after the document
- 14 styled image 73.
- 15 MR. LEWIS: Possible. In the
- 16 actual overview document?
- 17 JUSTICE WILTON-SIEGEL: No, in
- 18 the notes. I thought you were going -- if you're
- 19 not going for the notes, then disregard my
- 20 comment.
- 21 MR. LEWIS: Sorry,
- 22 Commissioner, in which document are you talking
- 23 about?
- 24 JUSTICE WILTON-SIEGEL: In the
- 25 notes, 7414.

- 1 MR. LEWIS: Oh, in 7414. That
- 2 is --
- JUSTICE WILTON-SIEGEL: I'm
- 4 sorry, 7404 is what I have in front of me.
- 5 MR. LEWIS: 7404?
- 5 JUSTICE WILTON-SIEGEL: Yes.
- 7 MR. LEWIS: One moment. It's
- 8 874 within -- image 874 within RHV933. There we
- 9 go. My apologies.
- 10 So this is a January 29th --
- 11 oh, I see, it says, image 45. Right. That's from
- 12 the original.
- 13 BY MR. LEWIS:
- Q. January 29th there's a
- 15 reference to Gord McGuire. Does this refer to a
- 16 call or meeting or something that Mr. (sic)
- 17 required, do you know?
- 18 A. I think it was a
- 19 telephone call. I don't recall another meeting on
- 20 this day.
- Q. Okay. And what did you
- 22 discuss with him? There's a reference to "we
- 23 didn't put this material down 2016, 2017." Do you
- 24 know what that refers to?
- 25 A. I think Mr. McGuire was

- 1 only involved when I was the -- only in Red Hill
- 2 Valley Parkway, so it would have to be Red Hill
- 3 Valley Parkway, and the material -- we didn't put
- 4 this material down to the 16 (ph), so I think it
- 5 was probably microsurfacing.
- Q. Okay.
- 7 A. I think likely -- because
- 8 I don't see any other.
- 9 Q. Okay. But you don't have
- 10 any specific recollection of it beyond the note?
- 11 A. No, no. But I believe
- 12 that would likely be microsurfacing.
- Q. Okay. And then "three
- 14 sets of measurements," do you know what that's
- 15 talking about?
- 16 A. So those three sets of
- 17 measurement -- I think that would be three sets
- 18 measurement. I think it was likely friction 2007,
- 19 friction 2013 and friction 2017.
- 20 O. Okay.
- 21 A. Or other option would be
- 22 what we did in 2017. But I don't recall the
- 23 details, you know, which of the two it was.
- Q. Okay. And if we could go
- 25 to overview document 10, images 125 and 126, and

- 1 it's paragraph 321.
- 2 On March 1st, 2019 you
- 3 e-mailed Mr. McGuire attaching the final version
- 4 of the report titled "Evaluation of Pavement
- 5 Surface and Aggregates, Red Hill Valley Parkway
- 6 City of Hamilton."
- 7 And so this is the final --
- 8 this is the final version of the draft that you
- 9 delivered to Mr. McGuire at the meeting on
- 10 December 18th, 2018?
- 11 A. Yes, it is.
- Q. Okay. And you indicate
- 13 about the British pendulum test results, the
- 14 polish stone value being 45 and characterized as
- 15 average/medium and the average texture depth
- 16 generally considered to be good. There's no
- 17 reference to the traffic volume and speed here, so
- 18 this -- you did in fact remove it as you
- 19 described?
- A. Yes, we did.
- Q. And if we could go to
- 22 image -- actually let's go to the report itself.
- 23 If we could go to GOL6612. It's dated
- 24 February 28th, 2019. And if we could go to
- 25 image 2.

1 And in the context of the 2 British pendulum number discussions, in the last paragraph -- maybe you could expand the last 3 4 paragraph, please. 5 So you refer to the British 6 pendulum numbers and say that: 7 "While the average of 39 can 8 be considered as good, the 9 test results were variable. The values below 30 would be 10 considered as low. And six of 11 12 the readings were below 30, 13 i.e., 20 percent of the 14 locations tested." (As read) 15 And then you go on to describe 16 the -- why the test results are not reliable. 17 What's the source of the number 30 as being the threshold between low and not low? 18 This value -- I used 19 Α. 20 this -- I downloaded a paper. Initially I thought it was the Virginia Tech paper, but I think later 21 on -- I think it was, like, presented at Virginia 22 23 Tech. And that was a technical paper on British 24 pendulum numbers, so British pendulum testing numbers in winter, and that included -- this is 25

- 1 why; that included low temperature, snow and
- 2 deicing chemicals. So the conclusion in that
- 3 paper was that if it was, I think, 39 it was okay;
- 4 30 was low, for these winter conditions. So I
- 5 based my opinion on that particular paper.
- Q. I see. And is that paper
- 7 referenced in the report? Let me see.
- 8 A. I don't --
- 9 Q. I don't believe -- if we
- 10 could go to images 3 and 4, see the references.
- 11 A. No, I don't think the
- 12 paper is referenced. Because I remember that
- 13 initially I save it under favourites. Later on
- 14 I -- because it was in my old computer I couldn't
- 15 find. The favourites didn't work anymore. So I
- 16 was looking for that paper, the original paper. I
- 17 couldn't find it. I found a similar paper that
- 18 gave similar values, but I know it was not the one
- 19 that originally used, but the values were similar.
- 20 So I have a copy of that similar paper but not the
- 21 original one because I know that I couldn't find
- 22 original one that I saved under favourites.
- Q. Okay. Has that been
- 24 produced to us, do we know? I'm not sure that we
- 25 have that.

1

1	MS. JENNIFER ROBERTS: Sorry,
2	Counsel, the paper Dr. Uzarowski subsequently
3	found has been produced in answers to, I recall,
4	undertakings.
5	MR. LEWIS: Okay. Thank you.
6	BY MR. LEWIS:
7	Q. And there I just note on
8	the image at the left under "references," number 1
9	that's the Heaton, Emery and Kamel paper that we
10	discussed earlier that had the reference to PSV
11	value of 45, right?
12	A. Yes, it is.
13	Q. Okay. So if we could go
14	back to image 2, and the bottom paragraph if you
15	could expand that, please.
16	And in the context of talking
17	about the British pendulum numbers, in the fifth
18	line you indicate:
19	"A detailed, reliable friction
20	testing survey was carried out
21	on the RHVP by Tradewind
22	Scientific using a grip tester
23	on November 20, 2013. The
24	grip number values were
25	variable and range from 27 to

1	54, and the average GN value
2	in the eastbound direction was
3	34.5 and in the westbound
4	direction 37.5."
5	And then you go on to say
6	that:
7	"The actual designation of
8	pavement surface friction
9	standards such as minimum skid
10	number, SN, is not commonly
11	practised by any
12	provincial/states in Canada
13	and the United States."
14	And then you go on, and we'll
15	look at it in a minute, you reference the TAC
16	guide example, which is on the next page.
17	Now, the first thing is, am I
18	correct that the error we talked about earlier
19	about the lane direction and the grip numbers that
20	that has carried through to here?
21	A. (Reading document).
22	Q. I believe it has. We
23	can
24	A. No, I think here
25	westbound westbound would be that way, so it

- 1 would be south -- southbound -- it's 37.5, and
- 2 eastbound would be the northbound, so it is
- 3 corrected here.
- Q. Okay. You have corrected
- 5 it here, right?
- 6 A. I looks like -- yeah, it
- 7 is correct because westbound would be the
- 8 southbound roughly, yes, so I think it is correct.
- 9 O. Okay. So does that mean
- 10 that you had adverted to the error at some point
- 11 during the -- prior to writing this? Do you
- 12 recall how you came to realize that?
- 13 A. I -- you know, I
- 14 corrected the error because -- yeah, I was -- in
- 15 my initial report in my e-mail and in 2014
- 16 obviously there was an error, so here I probably
- 17 look again at this thing; I realize what it should
- 18 be.
- 19 Q. Just give me one moment.
- 20 I may come back be to that once I have a look at
- 21 it. I don't want to do it on the fly.
- If we go to the next page, we
- 23 see the table 1 "Criteria For Identifying a Low
- 24 Friction Pavement Surface." And we talked about
- 25 this on the first day of your evidence last week

- 1 in relation to the Golder report, right, and one
- 2 of the sources by which you came up with the
- 3 reference in the Golder report to FN40, right?
- 4 A. Yes, it's correct. This
- 5 is table two six in the TAC guide, yes.
- Q. Right, Yeah. And do you
- 7 know why in here you did not refer to the U.K. PMS
- 8 guide and the SCRIM number? Those are the other
- 9 sources of the FN40 that you relied upon. Do you
- 10 know why you didn't use those in here?
- 11 A. You know, writing this
- 12 thing, it was probably, you know, better and more
- 13 clear to -- no, sorry, it is still Pennsylvania,
- 14 but more clear to reference what was in that
- 15 table. I don't have any particular -- no, I don't
- 16 have any particular recollection why I put this --
- 17 this paper. I think this paper was -- delivering
- 18 the right message what it should be.
- 19 Q. As I indicated, you refer
- 20 to the Tradewind testing as a "detailed, reliable
- 21 friction survey." Does that remain your view,
- 22 that it was a "detailed, reliable friction testing
- 23 survey"?
- A. Yes, it is.
- Q. And one thing I note is

- 1 there's no reference in here to the results on the
- 2 LINC from the Tradewind report. Was there a
- 3 reason for not including that in the comparison
- 4 between the LINC and the Red Hill Valley Parkway
- 5 results?
- A. Oh, definitely there is
- 7 no LINC here. And, you know, the focus was on the
- 8 Red Hill Valley Parkway, so we didn't include the
- 9 LINC, no.
- 10 Q. Right. But would that
- 11 not be a relevant piece of information that the --
- 12 part of the same facility, albeit with a different
- 13 pavement at a different time, had a very difficult
- 14 result?
- 15 A. No. Our focus was on the
- 16 Red Hill Valley Parkway, and SMA should be -- you
- 17 know, if they followed what we advised, it
- 18 probably would be, the issue would be solved. If
- 19 they applied microsurfacing, it would be roughly
- 20 the same, so no. But at this point of time we
- 21 just focus on the Red Hill Valley Parkway only.
- Q. Did anyone ask you not to
- 23 include the LINC results?
- A. No, nobody.
- Q. Okay. And then below

1	that table 1, if you could expand the text there,
2	Registrar. There's a reference to being:
3	"Brought to the City's a
4	number of times" (as read),
5	and, "an immediate, effective
6	treatment to address a concern
7	with frictional
8	characteristics of the SMA
9	surface course on the RHVP
10	would carry out shot
11	blasting/skidabrading of areas
12	of concern on the existing
13	pavement surface." (As read)
14	And now that is a different
15	wording than in the December 2018 draft where, as
16	we discussed, it said:
17	"As discussed with the City,
18	if there is a concern with
19	frictional characteristics of
20	the SMA surface course on the
21	RHVP, an immediate, effective
22	solution would be to carry out
23	shot blasting/skidabrading of
24	the areas of concern of the
25	existing pavement surface."

1	(As read)
2	Was this change brought about
3	by discussions with Mr. McGuire?
4	A. Yes. Mr. McGuire ask
5	about this and I talk to our senior management and
6	we decided to remove that statement.
7	Q. Well, and to change it.
8	A. To change it, yes. To
9	change it.
10	Q. So the last thing about
11	that, it does say, though, that it's to address,
12	"a concern with frictional characteristics of the
13	SMA surface course."
14	And that appears to be an
15	unattributed concern still. And, I mean, you did
16	have a concern about it, so why that language?
17	Why not express it as Golder's view?
18	A. Sorry, are you talking
19	about this particular paragraph, or
20	Q. Yeah, it says so I'll
21	say it again. In the first two lines it says:
22	"An immediate, effective
23	treatment to address a concern
24	with frictional

characteristics of the SMA

25

1	surface course on the RHVP
2	would be to carry out shot
3	blasting, et cetera." (As
4	read)
5	And I'm just wondering, again,
6	about the wording. It's to address a concern. It
7	sounds unattributed as opposed to being Golder's
8	recommendation.
9	A. You know, if we had a
10	concern, it was, you know, going back to 2013
11	about information from police, and then when
12	Amelia was doing the testing, there were three
13	accidents, and then we found out about it after
14	because obviously there was you know, still
15	you know, that one factor was still there. You
16	know, one spent (ph). You know, in particular
17	in our opinion that was particular first thing; is
18	was so easy to improve it. This one factor, it
19	would definitely not harm. I'm not saying it's
20	perfect because it's a short term. But it would
21	help. At least this one item would be addressed,
22	would improve.
23	Q. Okay. Thank you.
24	Take that down, Registrar, and
25	if you could go to well, before going to

- 1 anything.
- While this is all going on,
- 3 you or Golder were also preparing a draft and then
- 4 a final version of the HIR suitability study,
- 5 right? This was all sort of
- 6 non-contemporaneously?
- 7 A. That's correct.
- Q. Okay. And the draft, one
- 9 was delivered or was being prepared in December
- 10 2018, and then the final is provided --
- 11 If we go to overview
- 12 document 10, image 127. And it's, yes, 323.
- 13 Mr. Becke on March 7th e-mails
- 14 you writing:
- "It's been a bit since our
- 16 last discussion. I was hoping
- to get an update on the report
- for the HIP works on the RHVP.
- 19 Please provide me with an
- 20 update when you can."
- 21 And then on March 11th you
- 22 e-mail them attaching a final copy of the HIR
- 23 suitability study.
- 24 And if we could pull that up,
- 25 Golder GOL6583.

- 1 THE REGISTRAR: Sorry,
- 2 Counsel, did you say GOL6483?
- 3 MR. LEWIS: No, 6583. I may
- 4 have said 6483, but I meant 6583.
- 5 THE REGISTRAR: Apologies,
- 6 sorry.
- 7 MR. LEWIS: Thank you.
- 8 BY MR. LEWIS:
- 9 Q. So is this a copy of the
- 10 final HIR suitability study?
- 11 A. Yes.
- Q. Okay. And just generally
- 13 what was your conclusion for the suitability
- 14 study, the bottom line?
- 15 A. Overall conclusion was
- 16 that, you know, in theory it's possible. But
- 17 practically it would be practically not --
- 18 practically, it would be expensive. You know,
- 19 expensive, and it would require raising the
- 20 elevation, et cetera. So our overall conclusion
- 21 that besides being theoretically possible (ph)
- 22 that -- you know, I also discuss this thing with
- 23 British -- with BC. So in theory it was possible;
- 24 but practically we didn't recommend this.
- 25 Q. Okay. And I think if we

- 1 go to image 10, Registrar. You talk -- it's the
- 2 middle of three paragraphs beginning with "this
- 3 approach." If you could expand that and the next
- 4 two paragraphs after that, Registrar. So the
- 5 second paragraph on the page. Yeah.
- And first of all, there's a
- 7 reference and sort of see this throughout the
- 8 materials too. The -- and I always have trouble
- 9 pronouncing it -- beneficiating mix. That is what
- 10 you are adding to it, right, to make it better, to
- 11 put it lay person's terms; is that right?
- 12 A. Yes. I notice that --
- 13 it's not beneficiary. It's beneficiating mix.
- 14 This is the addition, extra mix that you add to
- 15 improve the characteristics.
- 16 Q. Right. Sorry, to improve
- 17 the?
- 18 A. The characteristics of
- 19 the final mix, of the blend, yes.
- 20 O. Right, right. And the
- 21 non-recycled part of it, I guess is what you're
- 22 adding to that, to what you're recycling?
- 23 A. Yes, that would have to
- 24 be --
- 25 Q. And is that what you were

- 1 talking about --
- A. -- very complex.
- Q. -- about the depth. As I
- 4 read the middle paragraph here, is it saying that
- 5 you would -- in order to do this you would end up
- 6 with an 80-millimetre top lift, is that right,
- 7 because so much beneficiating mix would have to be
- 8 added?
- 9 A. Yeah, I -- you know, at
- 10 that time I was involved in Thunder Bay in just a
- 11 conventional -- hot in-place recycling called
- 12 conventional mix, to conventional mix. So this
- 13 graded to this graded, and we added about 30 -- 25
- 14 to 35 percent of beneficiating mix. But here if I
- wanted to add from upgraded to dense graded, then
- 16 I did a lot of, you know, gradation analysis. We
- would need probably about adding 50 percent of
- 18 beneficiating mix to meet the requirements of
- 19 dense graded FC2 mix. Yeah, so that was roughly
- 20 about 50 percent based on my analysis.
- 21 O. And is that what you were
- 22 referring to, though, that it would change the
- 23 grade?
- A. Yes. So I would change
- 25 the grade from the upgraded mix SMA to bring it to

- 1 be within the envelope for the FC2 -- SuperPave
- 2 12.5 FC2 mix.
- Q. Right. It says in the
- 4 middle paragraph, though, that doing that, this
- 5 would raise the existing surface grade by
- 6 approximately 40 millimetres. So does that
- 7 actually mean the surface of the road?
- 8 A. Yes. Because, you know,
- 9 we would have to go down all the way through SMA
- 10 because SMA was cracked. But then it would have
- 11 an additional 50 -- it was only initial. Later on
- 12 we could probably think about details, but at that
- 13 point of time we had to go all the way, all the
- 14 depth in SMA, and then you would have to add
- 15 another 50 percent or beneficiating mix, so it
- 16 would drastically increase the volume.
- 17 O. Okay. Is the other part
- 18 there to do with the aggregates? As I'm reading
- 19 this, I understand it as saying, well, if the PSV
- 20 of the existing aggregates is 45, and so if you're
- 21 going to bring it up to 50, you're going to need
- 22 to add aggregates with a 55 PSV in order to
- 23 achieve an overall PSV of 50. Is that what you're
- 24 saying there?
- 25 A. This is what I -- I read

- 1 number of papers how blending of aggregates with
- 2 different PSV works. There is not a perfect
- 3 solution, but that was you know, at this point
- 4 of time I say, okay, if I have 45, if I have
- 5 something much better, then I will have the blend
- of better and worse, so I can bring it to about 50
- 7 overall.
- Q. All right. And in the
- 9 third line of the paragraph in the expanded text
- 10 here it says:
- "We understand that the
- desired PSV by the City would
- 13 be 50." (As read)
- 14 What is that from? Is that
- 15 based on your recommendation, or is that something
- 16 that someone at the City expressed to you as a --
- 17 as the City's desire.
- A. Well, I don't remember
- 19 anybody from the City just bring this particular
- 20 number to me, but it was -- for me it was, like,
- 21 DSM -- minimum PSV for aggregate to be on the DSM
- 22 list, 50, so this -- the final PSV of the blend
- 23 would have to be at least 50.
- Q. No, that I get. It's
- 25 just it sort of expresses it as a wish of the

- 1 City, and I'm just wondering if that was the case,
- 2 or if that was actually your -- just part of your
- 3 recommendations based on the MTO's DSM
- 4 requirements?
- 5 A. That was part of -- of
- 6 course part of my recommendations based on DSM
- 7 requirements, but I also -- like, you know, the
- 8 City would like to meet these requirements.
- 9 Q. Okay.
- 10 A. Because 45 was not
- 11 sufficient so that would be....
- 12 Q. If you could take that
- 13 down, Registrar.
- 14 And we know that the Tradewind
- 15 report was publicly disclosed on February 6th,
- 16 2019 in a press release by the City attaching the
- 17 Tradewind report and a memo by CIMA dated
- 18 February 4th, 2019. And did you have any
- 19 involvement in or awareness of the CIMA
- 20 February 4th, 2019 memo before it was made public?
- 21 A. No, I didn't.
- Q. Okay. And aside from
- 23 delivering the final pavement evaluation report
- 24 and the HIR suitability report that we've
- 25 discussed, what was your involvement with City

- 1 staff after the Tradewind report was made public
- 2 on February 6th relating specifically to the Red
- 3 Hill Valley Parkway?
- 4 A. For Red Hill Parkway I --
- 5 Q. We know that audit
- 6 services -- there's audit services, which I want
- 7 to talk about specifically. Was there anything
- 8 other than the audit services' communications?
- 9 A. I think that Mr. Becke
- 10 asking me for falling weight deflectometer results
- 11 on the Red Hill Valley Parkway because it weighted
- 12 on the LINC and on the -- it would have to be on
- 13 the Red Hill Valley Parkway for the test -- the FW
- 14 testing that we did in the 2013.
- 15 O. Thank you.
- 16 A. I think he asked me for
- 17 those FWD testing result.
- 18 Q. Okay.
- 19 MR. LEWIS: I think,
- 20 Commissioner, there's I believe just a couple of
- 21 short topics that I need to finish off with
- 22 Dr. Uzarowski about. It's 3:27, so I would
- 23 suggest this would be a good time to stop for the
- 24 day. I will not be more than half an hour
- 25 tomorrow morning, and so I did indicate to counsel

1 that it's possible I would move on. I may be 2 shorter than that tomorrow, but as it is the end of the day, I don't want to put undue workload on 3 4 Dr. Uzarowski at the end of the day. 5 JUSTICE WILTON-SIEGEL: Okay. MR. LEWIS: I wonder if we 6 7 could have a breakout room for counsel? JUSTICE WILTON-SIEGEL: We'll 8 9 stand adjourned until 9:30 tomorrow morning and 10 counsel can participate in the breakout room. 11 Thank you. Have a good evening. 12 --- Whereupon at 3:27 p.m. the proceedings were 13 adjourned. 14 15 16 17 18 19 20 21 22 23 24

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