IN THE MATTER OF AN ARBITRATION UNDER CHAPTER ELEVEN OF THE NORTH AMERICAN FREE TRADE AGREEMENT AND THE UNCITRAL ARBITRATION RULES,

BETWEEN:

WILLIAM RALPH CLAYTON, WILLIAM RICHARD CLAYTON, DOUGLAS CLAYTON AND DANIEL CLAYTON AND BILCON OF DELAWARE INC. Claimants

> - and -GOVERNMENT OF CANADA

> > Respondent

TRANSCRIPT OF PROCEEDINGS HELD BEFORE JUDGE BRUNO SIMMA (PRESIDING ARBITRATOR), PROFESSOR DONALD MCRAE, and PROFESSOR BRYAN SCHWARTZ held at the offices of Arbitration Place, 333 Bay Street, Suite 900, Toronto, Ontario on Saturday, February 24, 2018 at 8:32 a.m.

VOLUME 6 - FULL TRANSCRIPT {REVISED}

APPEARANCES:

Mr. Gregory Nash For the Claimants Mr. Brent Johnston Mr. Chris Elrick Mr. Alex Baer Mr. Alex Little Mr. Randy Sutton Mr. Frank Borowicz, Q.C. Mr. Scott Little For the Respondents Mr. Shane Spelliscy Mr. Rodney Neufeld Mr. Krista Zeman Mr. Susanna Kam Mr. Mark Klaver ALSO PRESENT: Lorinda Edmunds, Alison Burns, Raman Bath, Chelsea MacDonald, Annie Ronen, Tyler Lalande, Darian Parsons, Benjamin Tait, Derek Hehn A.S.A.P. Reporting Services Inc.© 2018 900-333 Bay Street 940 - 100 Queen Street Ottawa, Ontario K1P 1J9 Toronto, Ontario M5H 2R2 (613) 564-2727 (416) 861-8720

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			Page 1843
1	Toronto, Ontario,	1	the tribunal a bit of your background.
2	Upon resuming on Saturday, February 24, 2018	2	A. My background is that I am the
3	at 8:32 a.m.	3	president of Atlantic Coast Materials LLC. I've
4	PRESIDING ARBITRATOR: I think, since	4	been with the quarry at Bayside since its inception
5	the main actor will have to catch a plane, I think	5	in 1998. Prior to that I was vice-president/general
6	we will start right away. I think people are in	6	manager of Martin Marietta Materials Canada from
7	place.	7	1995 to 1997.
8	Would you please call Mr. Power.	8	Prior to that, I was the president of
9	Please take your seat.	9	Construction Aggregates which was purchased by
10	Good morning, Mr. Power.	10	Martin Marietta in 1995.
11	PRESIDING ARBITRATOR: Could you	11	Prior to that I was involved with a
12	please read the statement you have in front of you.	12	construction company that designed and built the
13	THE WITNESS: I solemnly declare upon	13	Auld's Cove quarry.
14	my honour and conscience that I will speak the	14	Q. You have in front of you two
15	truth, the whole truth and nothing but the truth and	15	expert opinions from SC Market Analytics; did you
16	that my statement will be in accordance with my	16	write anything in these SCMA opinions?
17	sincere belief.	17	A. No, I didn't.
18	AFFIRMED: MR. MICHAEL POWER	18	Q. In light of that, could you
19	PRESIDING ARBITRATOR: Thank you.	19	describe to the tribunal your role in assisting to
20	I will give the floor to Ms. Zeman	20	prepare the SCMA reports?
21	for direct.	21	A. I was contacted by Colin
22	EXAMINATION-IN-CHIEF BY MS. ZEMAN	22	Sutherland about a year ago and he asked if he could
23	MS. ZEMAN: Good morning, Mr. Power.	23	bounce some questions off me sort of as a resource,
24	A. Good morning.	24	and I said "Yes."
25	Q. Could you briefly describe for	25	Q. Have you provided any opinion or
25	Q. Could you briefly describe for	25	Q. Have you provided any opinion or

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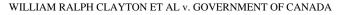
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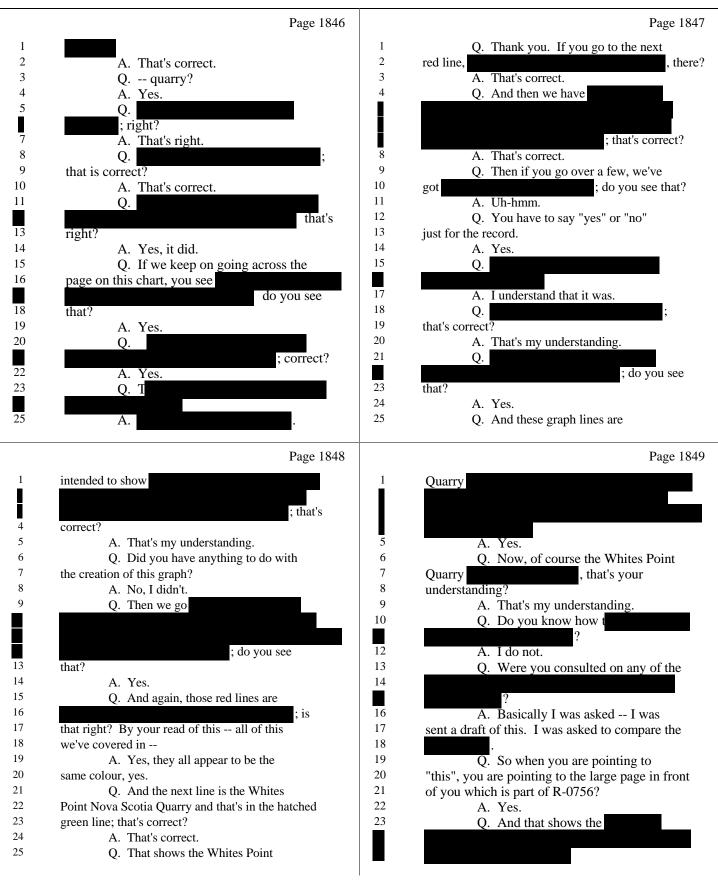
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1	fact testimony to this tribunal?	
2	A. No, I have not.	
3	MS. ZEMAN: Thank you.	
4	MR. NASH: Good morning. We have	
5	some handouts that I'd like to give in addition to	
6	the cross-examination binders.	
7	There is an exhibit called	
8	numbered C-0756. It is a large spreadsheet. It is	
9	a source document for the SCMA reports and we are	
10	going to give you a copy of that and then copies of	
11	some other documents that are also source documents,	
12	in loose form.	
13	PRESIDING ARBITRATOR: Thank you.	
14	CROSS-EXAMINATION BY MR. NASH:	
15	MR. NASH: Good morning, Mr. Power.	
16	A. Good morning.	
17	Q. My name is Greg Nash. I have a	
18	few questions for you this morning. I am going to	
19	get you on your way so you can make your plane.	
20	A. Thank you, I appreciate it.	
21	Q. Who wrote the SCMA reports, to	
22	your knowledge?	
23	A. To my knowledge, Colin and David.	
24	Q. Can you turn to tab 1 in the	
25	binder in front of you, which is first report.	

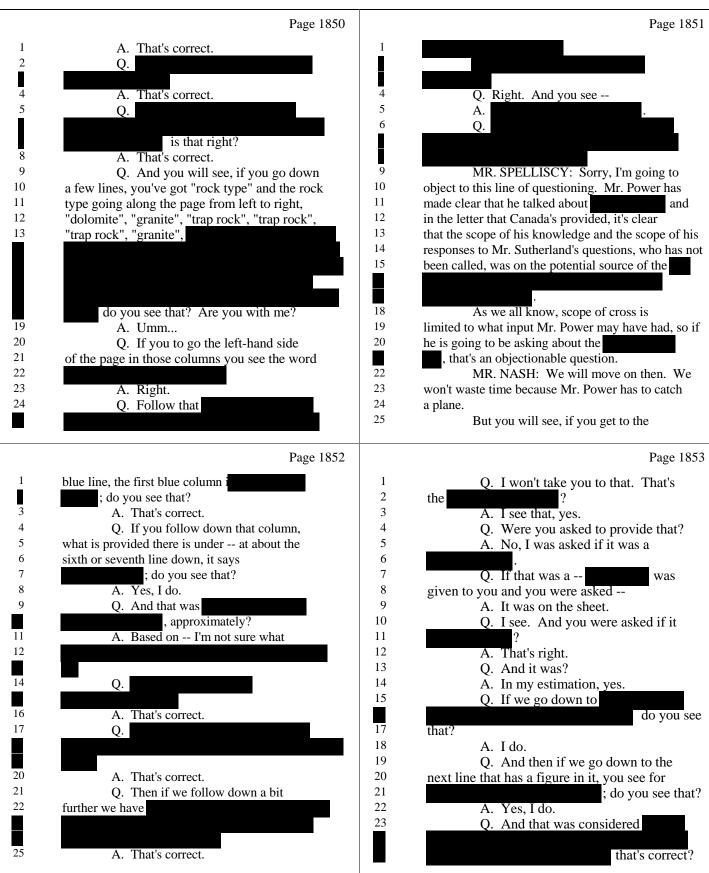
Could you turn, please, to page 11. You will see that that's a chart, a graph, which shows at the bottom, across the page from left to right, a number of quarries; do you see that? A. Yes. Q. Do you see that the first three are blue? A. Right. Q. Martin Correct. Q. Then you've got a hatched red graph, do you see that? A. Right.

Q. Q. Right. Q. Now, this, you will see is a chart which shows the see that at the very top? A. Yes. Q. And aggregate can consist in different forms of rock, that's right? A. That's correct. Q.

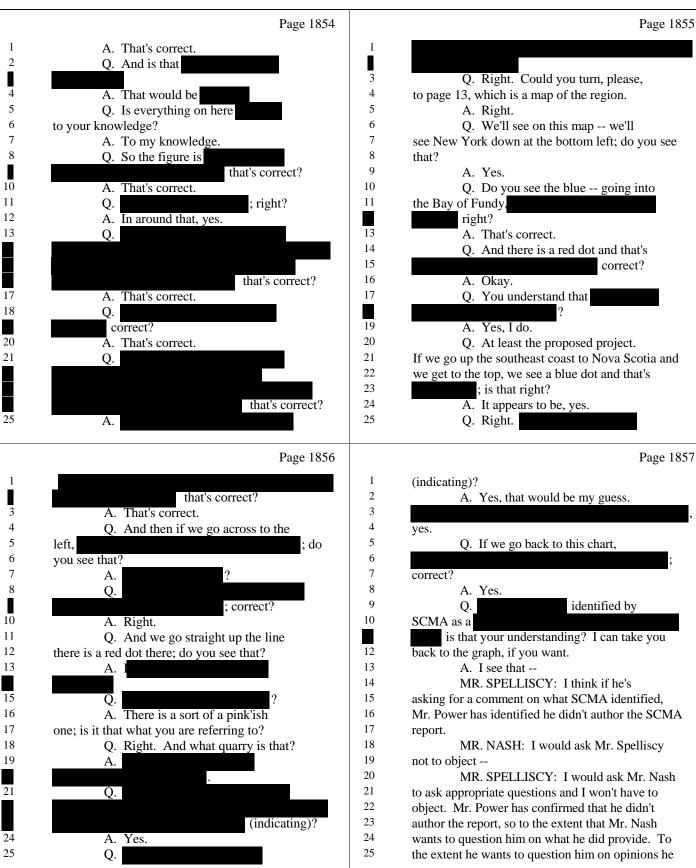


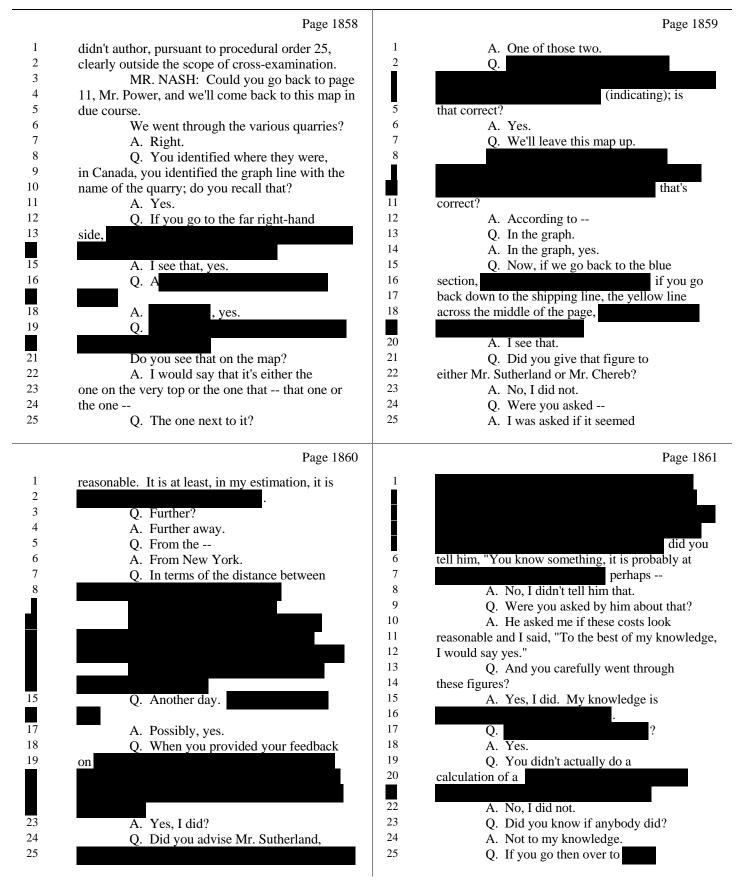


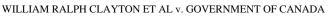
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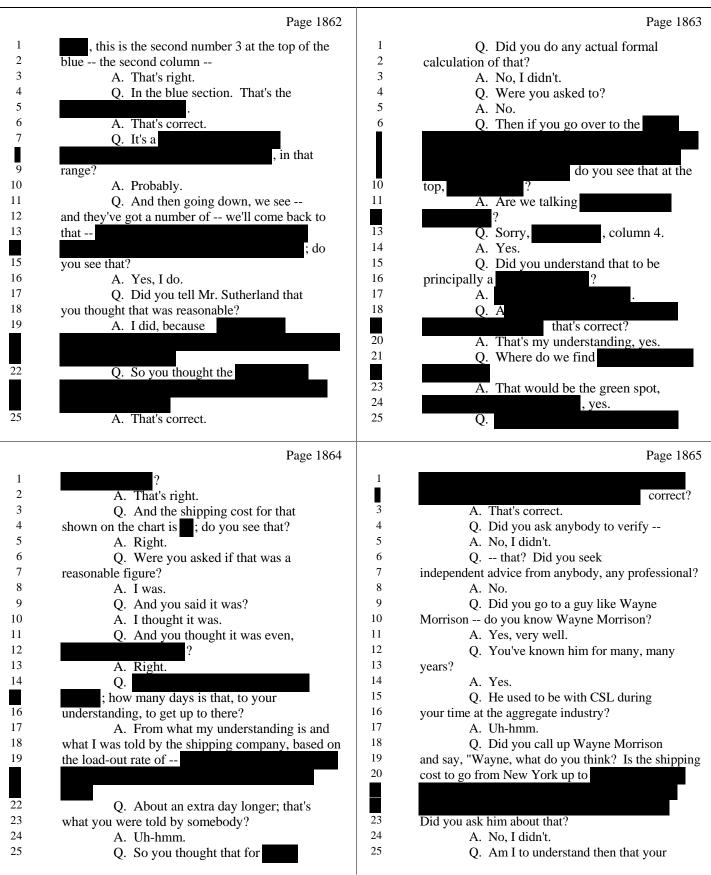












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WILLIAN	I RALPH CLAYTON ET AL V. GOVERNMENT OF CANADA		February 24, 201
	Page 1866		Page 1867
1	review of these figures was really principally based	1	
2	?		
3	A. That's correct.	3	Five columns over from the left,
4	Q. And that you made estimations of	4	A. Yep.
5	the actual shipping costs and you thought they were	5	Q. And you thought that was
6	sort of within a reasonable range?	6	reasonable, within the range?
7	A. They these costs were there.	7	A. I'm not sure I was asked about
8	I was asked if they looked reasonable.	8	
9	Q. Right. So these costs had	9	Q. Then we get to
10	already been slotted in for you and you didn't offer		?
11	up any changes, that's correct? Do you know who	11	A. Right.
12	slotted those costs in?	12	Q. Do you see that?
13	A. I would assume it was Colin and	13	A. Yeah.
14	David.	14	Q. Now, where is on
15	Q. Do you know that?	15	this map?
16	A. I don't know that.	16	A. would be the pink
17	Q. Do you know if Jason Ward had any	17	area.
18	input into that?	18	Q. It would be up here (indicating)?
19	A. Who?	19	A. Right.
20	Q. Sorry, Jason Ward sorry, James	20	Q. Up right there. So, the figure
21	Ward.	21	that you were provided with was ;
22	A. James Ward?	22	that's correct?
23	Q. Yes.	23	A. That's correct.
24	A. No, I don't.	24	Q. And
25	Q. If we go across the chart DJL	25	A. Also
	Page 1868		Page 1869
1	. It was just a quarry that was	1	A. That's correct.
2	thought about.	2	Q. And the cost per ton, again,
3	Q. It was a thought?	3	short ton for shipping stated in this document is
4	A. It was a thought.	4	
5	Q. Right. So	5	A. That's correct.
6	A. I had no idea what what the	6	Q. If I understand correctly then,
7	load-out costs were, what the depth of water was.	7	to go here,
8	Q. Right. No idea how long it would		
9	take for the ship to actually go into port and load		; is that right?
10	out?	10	A. Again, I said it was a reasonable
11	A. I had no idea.	11	cost. I did not I did not I thought it was a
12	Q. That makes a big difference,	12	reasonable cost.
13	doesn't it?	13	Q. You thought it was a reasonable
14	A. It sure does.	14	cost. All right.
15	Q. Because a long load-out time is	15	
16	time for the ship, when the first ship is berthed		do you see that?
17	there, just waiting to be loaded to go out?	17	A. Yes.
18	A. That's right.	18	Q. Where is ?
19	Q. So if you have a load-out rate	19	A. I would think it's the far dot on
20	that is many, many, many hours shorter, that will	20	the far side.
21	save you a lot of money in shipping: that's correct?	21	$\bigcap$ Over here Over there

A. That's correct. Q. And so going -- now,

that's correct?

21

22

23

(indicating)?

Q. Over here. Over there

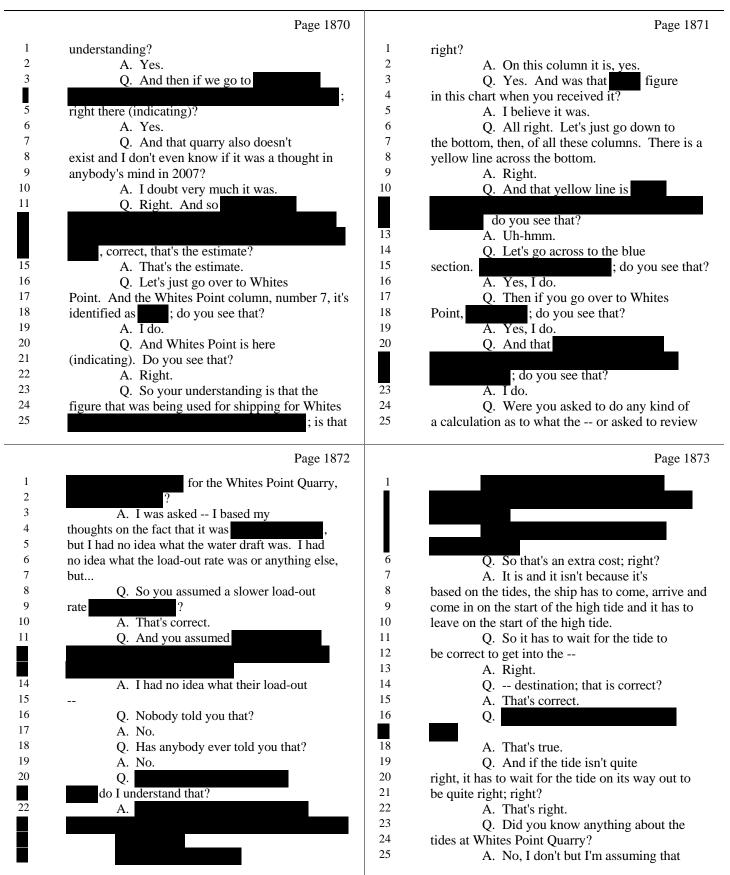
that's your

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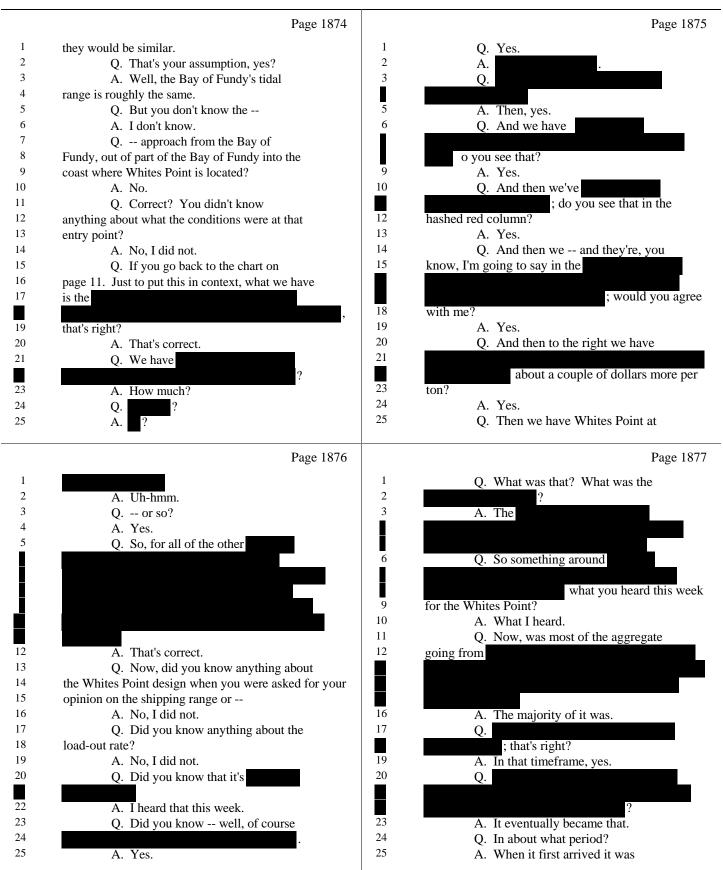
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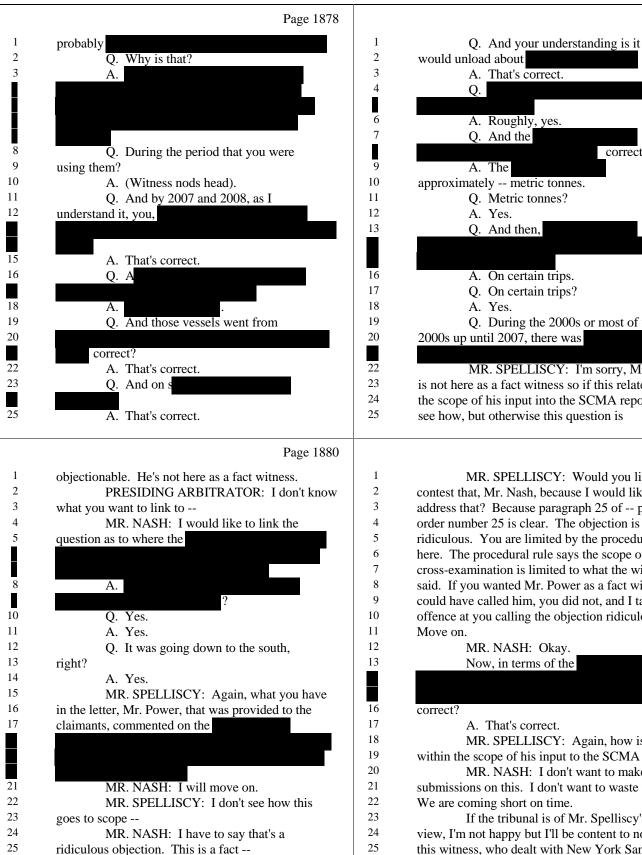
correct?

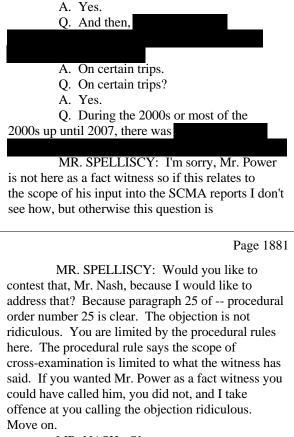
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correct?

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MR. NASH: Okay. Now, in terms of the that's A. That's correct. MR. SPELLISCY: Again, how is this within the scope of his input to the SCMA report? MR. NASH: I don't want to make any submissions on this. I don't want to waste time. We are coming short on time. If the tribunal is of Mr. Spelliscy's view, I'm not happy but I'll be content to not ask

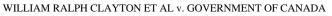
this witness, who dealt with New York Sand & Stone

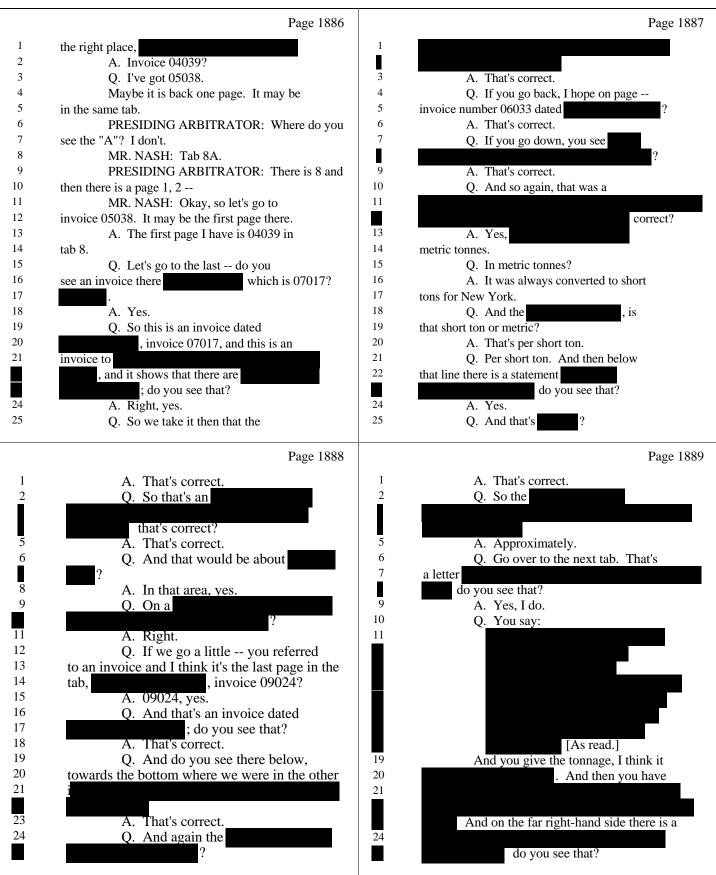
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	Page 1882		Page 1883
1	for ten years, who knows	1	about plant efficiencies of these various quarries
		2	that we've spoken about in Canada?
		3	A. Plant efficiencies?
4	PRESIDING ARBITRATOR: Go on.	4	Q. Yes.
5	MR. SPELLISCY: I'm sorry, the answer	5	A. No.
6	is that you can continue the question even though	6	Q. Were you asked anything about
7	procedural order number 25 makes it clear that	7	?
8	that's outside the scope of cross-examination? I'd	8	A. I was asked if some of the costs
9	just like clarification.	9	were that were on this sheet were reasonable. I
10 11	PRESIDING ARBITRATOR: Let me get	10 11	said "yes."
11	back to the question, to the precise question. Can	11	Q. If we go to those costs, in the
12	you read that out, Mr. Spelliscy, the question that	12	blue column, number 1 showing the
13	you reacted to? MR. SPELLISCY: "Now, in terms of the		you thought it was
14	MR. SPELLISCI. Now, in terms of the	15	reasonable?
15		16	A. Yes, I did.
	; that's correct?"	17	Q. And going down the various other
18	There is nothing in what Mr. Power	18	costs, shipping is the next, then drilling,
19	has provided in his input to SCMA that is on that	19	blasting, fuel, power, wear items, repairs and
20	question at all.	20	maintenance and supplies; were you asked whether
21	Mr. Nash has referred to him as a	21	those were reasonable?
22	witness. He is not here as a fact witness.	22	A. Yes, I was.
23	MR. NASH: Honestly, it's fine. It's	23	Q. So the total variable cost of
24	not an issue. I don't want to waste time.	24	, you thought was reasonable?
25	So, were you asked at all anything	25	A. That's correct.
	Page 1884		Page 1885
1	Q. And that's based on your	1	A. No, nothing.
2		2	Q. So you is this something that
		3	you would consider to sort of be rough dynamics or
		4	the ballpark figure?
	; is that right?	5	A. I would say it was the ballpark
6	A. Yes, that's correct.	6	figure.
7	Q. Were you asked to look at the	7	Q. Were you asked about any of the
8	other variable costs for the other quarries that are	8	other quarries and their variable costs?
9	shown here and asked whether you thought those were	9	A. Not really, no.
10	reasonable or not?	10	Q. Have you been to any of these
11	A. I was asked to look to see if	11	
12 13	they were reasonable. And, again, I couldn't		
13	comment what it if they were if they were or		
14	not. Q. And so, if you look at the far		
16	right-hand side, close to the far right-hand side,		
17	Whites Point,		
	were you asked if you thought those were		
19	reasonable?		
20	A. I believe I was.	20	Q. Right. Could you turn, please,
21	Q. And what was your response?	21	to, in the binder to tab 8. I'm sorry, 8A.
22	A. I believe I said I thought they	22	A. Tab 8?
23	would be.	23	Q. 8A. Sorry.
24	Q. Did you have any material before	24	PRESIDING ARBITRATOR: 8A.
25	you as to design	25	MR. NASH: You will see, if we are at
25	you us to design		

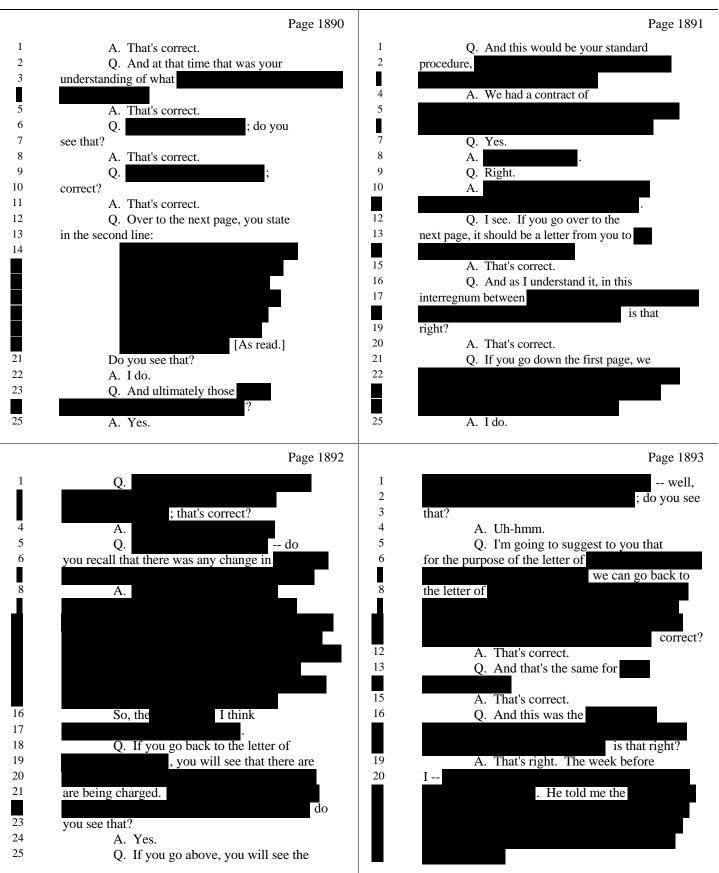
# Page 1883 iencies of these various quarries n about in Canada? nt efficiencies? re you asked anything about ? as asked if some of the costs on this sheet were reasonable. I ve go to those costs, in the mber 1 showing the you thought it was , I did. d going down the various other s the next, then drilling, ower, wear items, repairs and supplies; were you asked whether nable?

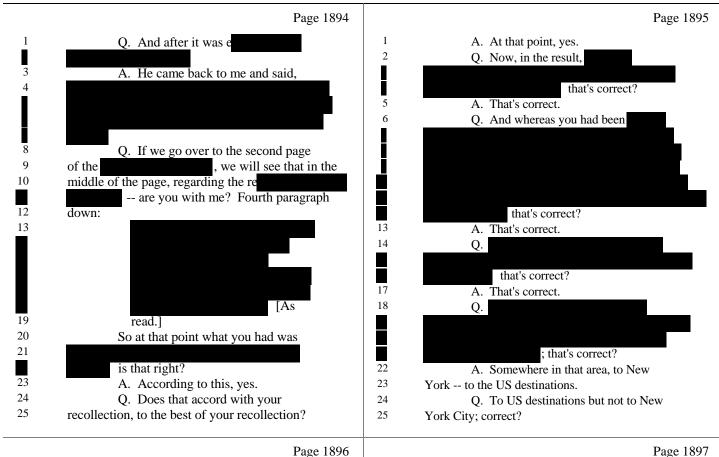
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1	A. Not to New York City.	1
2	MR. SPELLISCY: So we are now at	2
3	9:30. We are beyond the scope of we are now	3
4	talking about which is beyond the	4
5	scope of what the report was.	5
6	My colleague Mr. Nash had said he	6
7	would be done long before. I am worried because	7
8	he's got 15 minutes and we have not had a chance to	8
9	ask him a few questions on re-direct, so I would do	9
10	two things: request that Mr. Nash keep his questions	10
11	on the scope of the report and advise us that he can	11
12	finish quickly so that Canada's rights are not	12
13	prejudiced.	13
14	You will recall Canada wanted to do	14
15	this examination last night.	15
16	MR. NASH: I can short-circuit this,	16
17	Mr. Spelliscy, I am finished. Over to you.	17
18	PRESIDING ARBITRATOR: Thank you.	18
19	Mr. Spelliscy? Oh, sorry, Ms. Zeman.	19
20	I am so used to you	20
21	MS. ZEMAN: A bit of variation here.	21
22	<b>RE-EXAMINATION BY MS. ZEMAN:</b>	22
23	MS. ZEMAN: Mr. Power, Mr. Nash	23
24	stated to you that Black Point was about to break	24
25	ground. What is your understanding of the status of	25

	-
that project?	
	I haven't heard anything that
	break ground. From what I've the
	was still on hold.
	I'd like you to take a look at
-	e sheet in front of you, which
	ted you a series of questions about.
	ve look on the far right-hand
	that there are two columns there for
Whites Point	
	That's correct.
-	both in green. Can you read
	ell on the left side and the right side
out for the re	
	Umm
-	So right underneath Whites Point?
А.	"Based on document R-0757 and
latest Whites	Point's costs".
Q.	Do you know what document R-0757
is?	
А.	No, I don't.
Q.	If we go down to the very bottom,
those two col	lumns, there is some text on the
	e; can you read that out?
	"Paged on Plaintiff's costs "

A. "Based on Plaintiff's costs...

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A. Yes.

of your binder here

A. I do not.

A. Uh-hmm.

Q. Do these i

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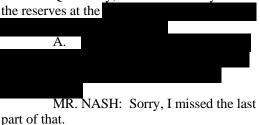
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figure 2.

February 24, 2018 Page 1898 Page 1899 1 missed the last part of --Q. All right. Now, you were also 2 MS. ZEMAN: Of the answer or the taken to page 11 of the first SCMA report and 3 question? 4 MR. NASH: Of the answer. 5 Q. Do you know which of these two MS. ZEMAN: The answer. columns Mr. Sutherland used in the report here? 6 MR. SPELLISCY: Perhaps the reporter 7 can read it back. It is in the LiveNote transcript. 8 Q. So then you were asked at tab 8 (Court reporter read back.) 9 PRESIDING ARBITRATOR: Thank you. These are some invoices. 10 MS. ZEMAN: Those are all my 11 questions. 12 PRESIDING ARBITRATOR: Thank you very 13 much. 14 A. No, they did not. There was a Mr. Nash, yes. separate invoice always with an "A" behind it. 15 FURTHER CROSS-EXAMINATION BY MR. NASH: Q. Finally, Mr. Nash asked you about 16 MR. NASH: You say 18 A. That's correct.

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PRESIDING ARBITRATOR: Mr. Nash

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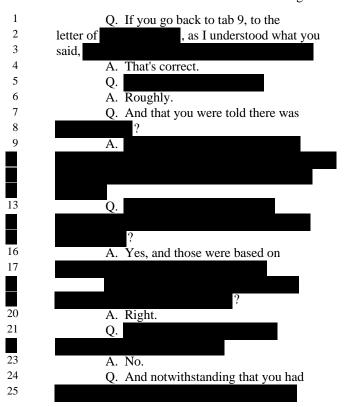
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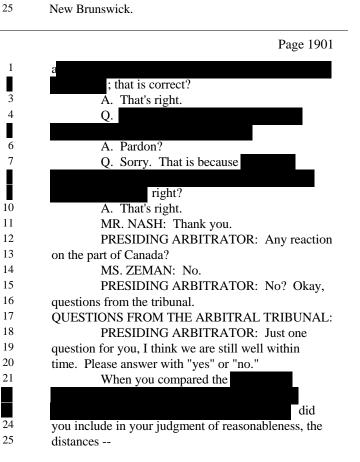
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yes.



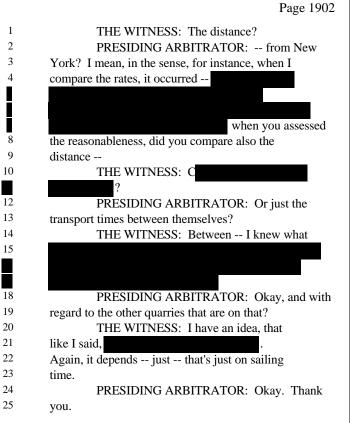


A. That was the rough scope of it,

A. I believe it was the Province of

Q. Who were you told that by?

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1	PRESIDING ARBITRATOR: Okay. Thank	1
2	you very much.	2
3	THE WITNESS: Thank you.	3
4	PRESIDING ARBITRATOR: That brings to	4
5	an end your examination. I think you I wish you	5
6	are relieved and probably in a double sense,	6
7	relieved emotionally and	7
8	THE WITNESS: Thank you.	8
9	PRESIDING ARBITRATOR: have a good	9
10	flight.	10
11	THE WITNESS: Thank you very much.	11
12	PRESIDING ARBITRATOR: Dirk, did you	12
13	want to say something or	13
14	DR. PULKOWSKI: No, I was just going	14
15	to prepare the witness table for the next witness.	15
16	It may be premature.	16
17	PRESIDING ARBITRATOR: No, no, I	17
18	think we can	18
19	MR. NASH: Could we have a 4-minute	19
20	break between this witness and the next?	20
21	PRESIDING ARBITRATOR: Okay, we will	21
22	have a break until 9:45.	22
23	MR. NASH: Thank you.	23
24	Recess taken at 9:38 a.m.	24
25	Upon resuming at 9:46 a.m.	25

	Page 1903
1	THE WITNESS: With load-out rates and
2	everything else, it would be different.
3	PRESIDING ARBITRATOR: Thank you, Mr.
4	Power. I think
5	MR. SPELLISCY: We have one follow-up
6	question from that.
7	PRESIDING ARBITRATOR: Oh, okay.
8	MR. NASH: No objection.
9	PRESIDING ARBITRATOR: I'm sorry?
10	MR. NASH: No objection.
11	PRESIDING ARBITRATOR: Great, in the
12	light of yesterday.
13	FURTHER RE-EXAMINATION BY MS. ZEMAN:
14	MS. ZEMAN: So on this chart,
15	Mr. Power, we looked at two columns here for Whites
16	Point; right?
17	A. Right.
18	Q. If we go look down at the freight
19	rate, Mr. Nash took you to the on the left,
20	and what's the number on the right there?
21	А.
22	Q. Do you remember which one you
23	looked at?
24	А.
25	MS. ZEMAN: Thank you.

#### Page 1905

PRESIDING ARBITRATOR: Well, I decided that I could do without Dirk so you have -good morning, Mr. Ward. THE WITNESS: Good morning. PRESIDING ARBITRATOR: Would you be so kind and read out the statement that is in front of you? THE WITNESS: Yes. I solemnly declare upon my honour and conscience that I will speak the truth, the whole truth and nothing but the truth and that my statement will be in accordance with my sincere belief. PRESIDING ARBITRATOR: Thank you, Mr. Ward. AFFIRMED: MR. JAMES WARD PRESIDING ARBITRATOR: Ms. Zeman, you have the floor. EXAMINATION IN-CHIEF BY MS. ZEMAN: MS. ZEMAN: Good morning, Mr. Ward. A. Good morning. Q. Could you briefly describe for the tribunal a bit of your background and experience? A. Yes. Initially I was an industrial analytical chemist. My equivalent degree

	Page 1906		Page 1907
1	is in chemistry.	1	developed into new quarries, home building, glazed,
2	Following that I was an asphalt plant	2	bricks, ready-mix concrete, asphalt. During that
3	foreman, quarry foreman, assistant quarry manager,	3	time, just to give you an illustration of some of my
4	quarry manager. During that time I was sent to	4	roles, we had a contract just to the north of
5	Doncaster College to take engineering, mining	5	Zululand to construct a road. My job was to find a
6	engineering, geology, surveying, to qualify for the	6	source of stone. There are not many quarries north
7	Member of the Institute of Quarrying in England. I	7	of Zululand and so we had to develop a quarry, had
8	was then transferred to South Africa to work for	8	to find rock, put a plant in and then put a portable
9	Tarmac, the same company that I was employed by in	9	asphalt plant in to produce asphalt for the road.
10	England.	10	So that's the kind of thing.
11	In South Africa I was a quarry	11	I was then transferred to the United
12	manager, a production manager, a technical	12	States to help them develop the company in the
13	development manager for a while. They needed a	13	United States as the technical development manager
14	professional geologist and so I was asked to join	14	for Tarmac Roadstone, USA.
15	the South African Geological Society.	15	I was then asked if I would run the
16	They didn't recognize the full	16	operations in Texas, the aggregate and trucking
17	Doncaster College information to qualify me for	17	operations in Texas. During that time I decided
18	there. Then I had to go to the University of	18	it after 23 years with Tarmac, I would leave, so
19	Witwatersrand, for a year to study under a Dr. Josh	19	I went to Phoenix to work for Blue Circle West and I
20	Lewry [phon.] on South African geology, by which	20	ran the ready-mix aggregates and trucking operations
21	time I was admitted into the South African	21	in Phoenix, Arizona. They decided to sell part of
22	Geological Society as a geologist.	22	the company to Cemex.
23	After performing duties in South	23	I didn't want to work for Cemex, so I
24	Africa up till 1985 as a technical manager for the	24	was offered a position back in Atlanta with Blue
25	company, a technical development manager where we	25	Circle, at which time they bought some quarries from

	Page 1908		Page 1909
1	a company called Georgia Marble.	1	consulting and looking for opportunities to develop
2	I was appointed president of the	2	my business.
3	newly formed company Blue Circle Aggregates, and	3	Q. You have in front of you the two
4	asked to develop and grow the company which I did	4	expert opinions of SC Market Analytics; did you
5	over an 11-12-year period.	5	write anything in these opinions?
6	Following that, I left when just	6	A. I didn't write any of the
7	after Lafarge bought us. I worked for Lafarge for	7	opinions, no.
8	probably two years, almost three, and then decided	8	Q. In light of that, can you
9	that I didn't like Lafarge and took a or decided	9	describe for the tribunal your role in preparing the
10	to leave. I left and started my own consulting	10	SCMA reports?
11	business.	11	A. From time to time, Mr. Sutherland
12	I then worked for an investment	12	would ask because of our relationship, he used to
13	company to buy aggregate companies for them to	13	work for Blue Circle to prepare information for
14	develop aggregate companies throughout the United	14	him or contribute to the information and that's
15	States.	15	exactly what I did. He would outline what he wanted
16	I was then hired by a gentleman to	16	and that's what I would carry out, or offer an
17	acquire some aggregate operations for him and then	17	opinion, or whatever he needed.
18	once we had done that I was asked to work for him to	18	Q. So understanding that you didn't
19	merge the aggregate operations together with what he	19	write any part of the reports and that it wouldn't
20	already had, run his asphalt and concrete divisions.	20	be appropriate to correct words that are not yours,
21	I sold his concrete division for him	21	are there any corrections you'd like to make to any
22	and in 2008 when the economy deteriorated	22	of the analysis that you provided to Mr. Sutherland
23	dramatically I was retained for two years as a	23	and Dr. Chereb?
24	consultant but no longer managed the business and	24	A. I did see in R-0842, that the
25	subsequent to that I've gone back to doing	25	I think is the figure that's in the document,

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1	it should be which is the number of hours	1	A. Yes.
2	worked, it's four hours out in <b>the set</b> , so it is a	2	Q. Was it you that actually created
3	very minor change. I don't think it has any effect	3	these documents?
4	or any material effect on any opinions that would be	4	A. I contributed to them. The "JW",
5	formed.	5	I believe, just for clarification and to move along
6	MS. ZEMAN: Thank you.	6	quickly was the fact that those Mr. Sutherland
7	PRESIDING ARBITRATOR: Thank you,	7	based his final documentation using those particular
8	Ms. Zeman.	8	figures.
9	And Mr. Nash.	9	There was "JW revision" and "JW the
10	CROSS-EXAMINATION BY MR. NASH:	10	original", I believe. If those are the documents
11	MR. NASH: There is a large document	11	you are referring to.
12	that we were just referring to with Mr. Power in	12	Q. And "JW" the revision, did that
13	front of you. It is Exhibit R-0756; do you see	13	stand for your initials?
14	that?	14	A. Yes.
15	A. I do.	15	Q. So, James Ward, where we see
16	Q. I understand that you had some	16	where we see a "JW" in these documents in the Excel
17	role in creating this document; is that correct?	17	form, that would be James Ward; correct?
18	A. I contributed information to the	18	A. Yes.
19	preparation of that document.	19	Q. And if these copies that have
20	Q. In fact, we've distributed a	20	been produced in this hearing, in this case, have
21	document which includes the whole document. And it	21	the initials "JW" on them, do I understand correctly
22	is a series of different pages and I think it's off	22	that you would be the last person to deal with the
23	an Excel sheet.	23	document; is that what how it happened or is it
24	In this document we see the letters	24	that you would
25	on the Excel form "JW" repeatedly?	25	A. No, I would not be the last
	Page 1912		Page 1913
1	person to deal with it.	1	most quarries, to our belief were sold out, and so
2	I would give it to Mr. Sutherland who	2	we tried to equate production with sales and there
3	would then be the last person to deal with it.	3	was a methodology to doing the costs. If you wish,
4	Q. I see.	4	I will go into the methodology because it is the
5	If we see the initials "JW", does	5	difference between accuracy and precision.
6	that mean that you are the originating author of the	6	Q. Just before we go there, did you
7	document?	7	have any information to verify the cost that you put
8	A. It means that it contains the	8	into this document?
9	majority of some of the information that I	9	A. Umm
10	provided.	10	Q. Let me put it this way:
11	Q. Right. Let's just go to the		
12	large first page or a portion of the first page of		
13	Exhibit R-0756.		Are the figures that
14	Can you confirm for me what parts of	14	we see here of those things based upon your
15	the data in this document were contributed to or	15	estimates?

A. To clarify that, since 1985 I have looked at a tremendous number of quarries in the United States. I've been part of a very large number of acquisitions and been privileged to obtain an awful lot of cost data on an awful lot of quarries in different operations so I am basing these costs on the information that I have obtained over the years in that form.

Q. So these costs here are what I would call your experiential cost estimates; is that

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provided by you?

equals production.

A. I was asked to provide a

comparison of costs for the quarry, in my best

everything on the equal basis of product mix,

estimate. It was a comparison based on equivalency,

So, that is why you would probably

equivalency meaning that we wanted to try and put

volume -- not volumes but on utilization or sales,

see a notation that this was in 2006, 2007, when

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	Page 1914		Page 1915
1	fair?	1	Q. Is all of the information
2	A. Based on information obtained	2	presented in this document and, again, leave aside
3	over the period, actual information on accounts.	3	shipping, is that inputted by you to the best of
4	Q. Over the 30 years you've been	4	your recollection?
5	involved in this?	5	A. Without going back and looking at
6	A. Since in the United States,	6	every figure, it is difficult to say but I would say
7	since 1985.	7	the majority.
8	Q. Right. So, you didn't go to any	8	Q. Can we say the vast majority;
9	of the companies that owned these these couple of	9	would that be fair?
10	investment quarries and say to them "This is my	10	A. Yes, or by I mean, what do you
11	estimate; can you give me some idea if I'm in the	11	mean by "vast majority"?
12	right ballpark." Do I have that right?	12	Q. Well, the majority could be
13	A. I did not go to the official	13	51 per cent or the majority could include 80 or
14	companies, no.	14	90 per cent. When you say it is in the 80 to 90
15	Q. Okay. Now, if you go to	15	per cent range?
16	"Variable costs" over on the left-hand column, you	16	A. To help the tribunal, probably
17	see "wages", "stripping", "drilling", "blasting",	17	75 per cent, in that order, or more.
18	"fuel, "power", "wear items", and so on; were those	18	Q. But at least all of those figures
19	categories created by you?	19	we have across the page under the heading "Variable
20	A. Yes.	20	cost" and "wages", and so on, all of that
21	Q. Is all of the information in that	21	information, to the best of your recollection is
22	category across the page inputted by you? Leave	22	provided by you; correct?
23	aside shipping for one moment.	23	A. Yes.
24	A. Without looking at my computer I	24	Q. And then we have going down
25	would say "yes."	25	again, that column, we have "Total variable costs"
	Page 1916		Page 1917
1	and those figures would be provided by you; that's	1	A. Shipping. I cannot comment
2	correct?	2	because I have no background to judge what he was
3	A. Yes.	3	telling me, whether it would be right or wrong or

2	correct?	2	because I have no background to judge what he was
3	A. Yes.	3	telling me, whether it would be right or wrong or
4	Q. And then we've got freight to New	4	anything like that, and I was more interested in
5	York, and we have a line across for each of the	5	certain aspects of his quarry.
6	quarries. Many of the squares aren't filled in but	6	Q. And did you take certain aspects
7	if we get over to Canada, those figures in the blue	7	of his quarry, including the variable costs there
8	section were provided by Mike Power; that's your	8	into account in inputting this information?
9	recollection?	9	A. Not the transport, but the costs,
10	A. I'm not quite sure who	10	yes.
11	provided I know they were entered finally by	11	Q. The other cost
12	Mr. Sutherland. The water transportation is not my	12	A. The cost of production, yes.
13	expertise.	13	Q. If we go to the next
14	Q. Did you take any steps well,	14	section down, we've got freight to New York rail, we
15	first of all, did you ever speak to Mr. Power?	15	have freight to New York trucking or truck,
16	A. Yes, I did.	16	including tolls; was it you that gathered the
17	Q. Did you speak to him about these	17	information for that category of cost?
18	figures?	18	A. I provided some information on
19	A. We had a very general	19	the tolls in New York which is pasted onto one of
20	conversation about the figures.	20	the spreadsheets. I also found the industry
21	Q. And he is it based upon that	21	calculation for calculating truck rates, and
22	conversation that you came to the conclusion that	22	remember, this was, for an accurate comparison,
23	those figures were reasonable?	23	rather than a precise determination.
24	A. No, which? The	24	Q. An accurate comparison rather
25	Q. Shipping?	25	than a precise determination?

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	Page 1918		Page 1919
1	A. Yes.	1	A. I'm sorry, I'm sorry.
2	Q. Can you unpack that for me?	2	Q. That's my fault. Tab 1, page 10.
3	A. Yes, in my if I put my	3	Did you create the map on that page through the use
4	chemistry hat on, if I may for a moment: In the days	4	of Google Earth?
5	of chemistry you had a methodology to arrive at a	5	A. Yes, I contributed to that map.
6	result. The result may be 1 part per million but	6	Q. When you say you contributed to
7	you may consistently arrive at 1.1 part per million.	7	it, what was your contribution?
8	You are accurate in your work because	8	A. I took the Google Earth and took
9	you consistently arrive at 1.1 part per million,	9	all the different aerial pictures of the quarries,
10	right? But the precision is off by the 0.1.	10	identified the quarries from the information
11	Q. And so in a case like this, were	11	provided in MSHA of the description where the
12	you going with the "It's off by 0.1 but otherwise	12	quarries are.
13	it's precise"?	13	I identified the quarries, put them
14	A. No, I was going by the accuracy	14	on the map and then put the information in on that
15	of the method determining in these costs with an	15	map.
16	intent to try to obtain some precision.	16	Q. We see that the quarries are
17	Q. Did you contact any of the US	17	different distance from New York City; do you see
18	quarries in the New York City/New Jersey area that	18	that?
19	were actually shipping aggregate into the New York	19	A. Yes.
20	City market to see exactly what their costs were?	20	Q.
21	A. I did not contact the quarries,		;
22	no.	22	do you see that?
23	Q. Can we go to page 10 of the first	23	A. Yes, I do.
24	report. I'm sorry, you will see there you are in	24	Q. And do you see under that
25	tab 1?	25	do you see that?
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	Page 1920		Page 1921
1	A. I yes, I see.	1	those played a part in contributing to the trucking
2	Q. And you've got	2	costs.
		3	Q. And in
	?	4	A. As well as the calculation.
5	A. Yes.	5	Q. And so you actually personally
6	Q. Would you agree with me that	6	went through the calculation of the cost, of
7	delivering aggregate by truck into New York City is	7	trucking cost cost of trucking to get from these
8	a very expensive proposition?	8	various land-based quarries in New York City for
9	A. I've heard testimony to that	9	each quarry
10	effect.	10	A. No, not each quarry, no, we
11	Q. Did you take that into account in	11	used I used a radius, zone, and in some instances
12	assessing the cost of actually getting aggregate	12	from a quarry you ask for a price and they'll say,
13	into the New York City market?	13	well, it's \$5 per ton to this zone or \$6 to that
14	A. My assessment was based on the	14	zone, or you can get it to a specific customer, to a
15	information that I provided in the document which	15	specific location, but it depends, there are various
16	was the theoretical trucking cost plus the tolls.	16	ways of quoting transport costs.
17	Q. Theoretical trucking cost plus	17	Q. Did you contact any of the
18	the tolls?	18	quarries on this Google Earth map to see what they
19	A. Yes.	19	were actually experiencing as trucking cost to take
20	Q. You did no actual calculation of	20	in a ton or however many tons?
21	actual trucking cost to get from one quarry to New	21	A. Not directly to the quarries.
22	York City or another quarry to New York City;	22	Q. Not directly to the quarries.
23	correct?	23	You did your own analysis, your own calculation of
24	A. I have, as well as	24	that?
25	Mr. Sutherland, some knowledge of trucking costs and	25	A. I have a lot of industry

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1	colleagues from which I'm I get information from,	1	quarries are different distances from New York City,
2	which I believe would be privileged information to	2	and as I understand what you are telling me, is that
3	me.	3	you used a radius which would encompass the
4	Q. So you relied on people who	4	locations of all the quarries to arrive at trucking
5	aren't coming here to this tribunal; is that	5	costs; is that right?
6	correct?	6	A. Different zones?
7	A. Yes.	7	Q. Different zones?
8	Q. And if you go to just	8	A. Yes.
9	identifying a few more of these, we've got at the	9	Q. And you chose a zone for
10	top centre of the page	10	A. Based on distance.
	; do you see that?	11	Q. Based on distance?
12	A. Could you refer me to the page	12	A. But not the precise distance.
13	again?	13	Q. And how many zones were involved
14	Q. Same page we were on. Page 10,	14	in identifying these various quarries and how far
15		15	they were from New York City?
16	A. Yes, I see it. Thank you.	16	A. It would be every five miles.
17	Q. And there is ; do you	17	Q. From
18	see that just down	18	A. From New York. So it would be 5,
19	A. Yes.	19	10, 15, 20, 25, 30, 35, 40 and so forth.
20	Q. And then back up, and over to the	20	Q. So there are some quarries that
21	right, ?	21	are located 20 miles from New York City?
22	A. Yes.	22	A. Yes.
23	Q. You've identified "Truck Rail	23	Q. And some that are located
24	Water".	24	90 miles from New York City?
25	You will see that these various	25	A. Yes.

	Page 1924		Page 1925
1	Q. If we go back to the chart on	1	A. Yes.
2	Exhibit 0756, the single page in front of you under	2	Q for each of these
3	the binder, you've actually if we go freight to	3	approximately 15 quarries; right?
4	New York trucking, including tolls, for all of the	4	A. Yes.
5	land-based quarries servicing the New York City,	5	Q. So that hasn't nothing's been
6	you've given them the same trucking rate regardless	6	produced in that regard; that's correct?
7	of which zone they're in?	7	A. That's correct.
8	A. Yes, because each zone would have	8	Q. And so if you go through, then,
9	a different cost base, due to accessibility to New	9	in the calculation of the lowest cost delivered to
10	York. If it was close to a freeway, and this kind	10	the customer of combined aggregate, a calculation of
11	of thing, so even though we gave the zone, the zone	11	trucking cost for each of these quarries, no matter
12	is dependent on the accessibility to New York.	12	how farther from New York City, you've identified
13	Q. Did you actually do an analysis	13	that as being the same for each one; do I have that
14	that does not appear here, that each quarry, within	14	right?
15	a different zone would actually expect to be, the	15	A. That's what it appears on this
16	cost of transportation, trucking into New York City,	16	document, yes.
17	would be X and then if you go out a further zone it	17	Q. And were you the last person to
18	would be Y, and if you go a further zone it would be	18	enter the trucking figures for this analytical
19	Z and so on? Did you do that what I'll call a	19	purpose?
20	more micro analysis?	20	A. No, sir.
21	A. In the way that you describe it,	21	Q. There was somebody else?
22	yes, but the it depends on your definition of micro.	22	A. Yes.
23	Q. Well, there has been nothing	23	Q. That would be Mr. Sutherland?
24	further that we've seen that calculates trucking	24	A. Yes.
25	rates	25	Q. Did you speak to him about the

	Page 1926		Page 1927
1	notion that various quarries are either nearer to or	1	New York. I believe the first radius we took was up
2	farther away from New York and might then engage	2	to 35 miles. And then we said, "Well the 35-mile
3	different trucking costs to take aggregate into New	3	radius is the there are quarries that are right
4	York City?	4	on that border or just outside."
5	A. We did discuss that.	5	If we then extend to 45, how would
6	Q. And you decided just to leave it	6	the market look at the 45, so we had some at
7	at one rate right across the board?	7	35 miles and some at 45 miles. So that is the
8	A. We discussed where the locations	8	distance that the quarries were looked at, anything
9	of the quarries were and how they related to New	9	up to 35 and then just 35 to 45.
10	York, the access there, and we decided that for	10	Q. So, there were two radii, if I
11	comparative purposes, this was sufficient.	11	can put it that way?
12	Q. You just made a blanket	12	A. Yes.
13	A. That whether there was any	13	Q. One to 35 miles and one to
14	further discussion with other people interest from	14	45 miles?
15	Mr. Sutherland, I don't know.	15	A. One to 45 miles.
16	Q. And what is the variation in	16	Q. Did you actually know the
17	distance between these land-based quarries in the	17	geographical location of all the quarries that you
18	New York City/New Jersey area, and in terms of a	18	were examining?
19	comparative distance? Is it fair to say that there	19	A. I found them on Google Earth from
20	would be some quarries that would be as close as 20	20	the MSHA description of where the quarries were, it
21	or 25 miles, to New York City, and others that might	21	gives you actually directions to each quarry, and so
22	be 150 or 200 miles from New York City?	22	it's easy to pinpoint them on a Google Earth map.
23	A. In the quarries that we looked at	23	Q. What was the nearest quarry,
24	in New York, the request was to look at all the	24	land-based quarry to New York City?
25	quarries within a certain radius that could reach	25	A. Without looking back I couldn't

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1	tell you at this moment.	1	A. Well, more precise, I zoomed in
2	Q. Could it be as close as 15 miles?	2	on Google Earth and put the mid-point on the I
3	A. I don't think I don't think	3	think it was the 25th Street quayside.
4	I don't think I remember anything as close as	4	Q. So you didn't do any analysis of
5	15 miles. But then again, I'm not I haven't	5	the frequency of trip by trucks going from a certain
6	measured them. And these measurements are as the	6	quarry into another part of New York City?
7	crow flies, not by road miles.	7	A. I did not.
8	Q. I see, so they're not by	8	Q. It was a blanket analysis; is
9	A. They're zones.	9	that fair?
10	Q. As the crow flies. So it is the	10	A. Yeah.
11	actual as the crow flies distance from the quarry to	11	Q. So, just going back, is it fair
12	New York City?	12	to say that you last actually managed a quarry in
13	A. Yes.	13	about 1977?
14	Q. And what borough of New York	14	A. Oh, no.
15	City?	15	Q. No.
16	A. I took the centre point of	16	A. No.
17	Manhattan.	17	Q. Did you ever operate a quarry?
18	Q. Centre point of Manhattan?	18	A. Yes.
19	A. Yeah.	19	Q. As a quarry operator, a person
20	Q. New York City is a big place,	20	who gets up early in the morning and manages all the
21	Brooklyn is the fourth or fifth largest city in	21	men?
22	United States; is that right?	22	A. Yes, I was a foreman I was an
23	A. Yes.	23	actual foreman. I was up at 4 o'clock in the
24	Q. And there are various access	24	morning, sometimes 24 hours a day. I was a quarry
25	points and traffic issues.	25	manager. I was at work at 6 o'clock, 5:30, whatever

	Page 1930		Page 1931
1	it took, I operated loading machines, I operated	1	manager.
2	crushers, I operated I did every job in a quarry	2	Q. And that's in South Africa?
3	and	3	A. Yes.
4	Q. Which quarry was that?	4	Q. So you are 40 years away from
5	A. The ones in England. I did all	5	that direct experience of doing a John Wall job,
6	the jobs in England. As a foreman we are expected	6	getting up in the morning and
7	to relieve and when I was a trainee quarry	7	A. I think that's too strong a
8	manager we did all the different jobs in a quarry to	8	statement to say that I'm 40 years away from being
9	train.	9	hands-on in a quarry. That's wrong. If you are the
10	The last time that I actually managed	10	president of the company, you better get down and
11	a quarry or was responsible for working with the	11	dirty with the people. Some people may want to sit
12	manager to manage a quarry would be back in 2009.	12	in an office; I don't.
13	Q. And the last time you were the	13	Q. Could you go to, again, in that
14	quarry, actual person, the quarry manager have	14	tab 1 to the last couple of pages of that tab.
15	you read John Wall's witness statement in this case?	15	If you go to the last page of that
16	A. Yes.	16	tab, this is part of it is unnumbered but it is
17	Q. You know that he was an actual	17	part of your
18	operator of quarries?	18	A. CV.
19	A. Yes, yes.	19	Q CV, and if you go to the last
20	Q. When was the last time that you	20	page, you will see under the third paragraph,
21	did that job?	21	"Quarry Manager, Production Manager, Tarmac
22	A. It would be 1978.	22	Roadstone, Johannesburg, South Africa, 1976-77"?
23	Q. That was my understanding. So	23	A. Yes.
24	it's been	24	Q. I've reviewed your CV and that's
25	A. That was when I was the on-floor	25	the last reference to that description of a job on

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1	your CV.	1	We will come back to it but did you
2	A. Of a quarry yes, but then we	2	prepare graphs for the purpose of insertion into the
3	had a quarry in Ridgeview, Durban, with a manager	3	report?
4	Q. Yes?	4	A. I prepared a graph that was
5	A and when he was on vacation,	5	relative to, I believe, market share based on MSHA
6	we had some problems down there, I was actually in	6	that might have gone into the report, I have
7	there helping to get the thing resolved. Because we	7	prepared that and sent it to Mr. Sutherland. I was
8	closed Sydenham Quarry down and we merged the	8	using MSHA data for market share. Based on MSHA
9	workforce from Sydenham to Ridgeview, during that	9	data.
10	period and we had put increased the production at	10	Q. Could you go to page 11 of SCMA
11	Ridgeview and so my job was to help consolidate that	11	report 1, which is tab 1.
12	so my feet on the ground management would be 1978.	12	Was the graph which is figure 2 shown
13	Q. 1978?	13	on that page the result of information developed by
14	A. Yes.	14	you?
15	Q. Was your last	15	A. I would say it's based on
16	A. But I wouldn't put that in my CV,	16	information that Mr. Sutherland had considered was
17	but that's a lot of detail that	17	germane to produce in this that I contributed to
18	Q. Of course. So I'm correct then	18	him, yes.
19	that your last job actually on the ground managing a	19	Q. And as I understand it, the
20	quarry, doing the day-to-day management of a quarry	20	process was for you to provide information into this
21	was 40 years ago?	21	document.
22	A. My actual experience of an	22	A. Yes.
23	on-the-ground manager is 40 years ago, yes.	23	Q. And I think you've said about
24	Q. So we've covered the chart which	24	75 per cent?
25	was the first page of R-0756.	25	A. Yes.

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	Page 1934		Page 1935
1	Q. Approximately. And for that	1	simple Excel addition. It is add this and add this.
2	information to be transposed and to be put in	2	The calculations with the information
3	graphical form in figure 2 on page 11; is that	3	involved, no, the actual calculation by the way that
4	right?	4	Excel does it, yes. So I want to exclude the
5	A. Yes, I contributed to that sheet,	5	freight costs.
6	and what Mr. Sutherland did with it after that, it	6	Q. Leaving aside the freight costs
7	was no I did not contribute to.	7	
8	Q. Did you review the graph that's	8	A. Yeah, and
9	shown on page 11 and ask Mr. Sutherland or did	9	Q. Leaving that aside for one
10	Mr. Sutherland ask you to verify that these costs	10	moment.
11	shown on this graph represented these costs, and I'm	11	A. Yes, thank you.
12	pointing to the first page of 0756 at the bottom?	12	Q. The rest of the information on
13	A. Yes, I was never asked to verify	13	this chart, on this Excel sheet, resulting in the
14	this line here.	14	costs on the bottom line for the various
15	Q. Were you asked	15	A. Would have a contribution from
16	A. But	16	me.
17	Q. The bottom line calculations on	17	Q. And a significant contribution,
18	this document	18	isn't that fair?
19	A. Yeah.	19	A. Yes, yes.
20	Q are your calculations; that's	20	Q. And leaving aside freight costs,
21	correct?	21	essentially everything else; is that fair?
22	A. No.	22	A. Yes.
23	Q. They are	23	Q. And when I say "freight costs",
24	A. Because the freight and	24	only the oceanside freight cost because you've told
25	everything would be is and the rest is just a	25	us that you calculated
		1	

#### Dam 1020

	Page 1936		Page 1937
1	A. Well, and the rail.	1	
2	Q. And the rail. So you got rail		; do you see that?
3	from somebody else?	3	A. Yes.
4	A. We there was a long discussion	4	Q. And
5	on rail, on what it would cost and I think we had	5	Ă. No,
6	just recently done a rail study and so the		
7	information came from a rail study that we'd done	7	Q. Well, maybe I thank you for
8	for a different client.	8	that. I was on the wrong column.
9	Q. And so that's a study that hasn't	9	If we go to the chart on page 11, we
10	been produced for review by the claimants; that's	10	have , it is
11	correct?	11	shown in red, all the Canadian quarries, existing or
12	A. I don't think it would be	12	proposed, are shown on the right-hand side. Sorry,
13	appropriate for that to be reviewed by the	13	the red line,
14	claimants.	14	right to the side and your figure, as you pointed
15	Q. Even with redactions? Okay.	15	out, is ?
16	So rail, truck, you did truck,	16	A. Well, it's not my figure but it's
17	Mr. Power did ship, you've done some review of rail.	17	the figure that is in the machine because that
18	Leaving those comments aside, is everything else on	18	includes the freight.
19	this sheet the result of your work and your input?	19	Q. It included the freight, okay.
20	A. It as a result of my	20	But did you ever check to see that that figure of
21	contributions, yes.	21	was actually accurately depicted on the
22	Q. If we take these figures at the	22	graph?
23	bottom of the page, and just to choose a quarry,	23	A. I don't believe I did.
24	let's , which is the fourth column on	24	Q. Because when I look at the graph
25	the blue part of the sheet, and go down to the	25	it looks like is being depicted at

Page 1939

	Page 1938	
1	something like ?	1
2	A. I can't comment.	2
3	Q. Okay. Now there's a smaller	3
4	version well, a larger version of that chart in	4
5	front of you to your left. Just this one over there	5
6	on the left-hand side of the table.	6
7	A. Yes.	7
8	Q. What has been done here is to	8
9	take this graph which starts at a baseline of ;	9
10	do you see that?	10
11	A. I have the graph.	11
12	Q. Do you see on the in the in	12
13	this chart that I'm showing you	13
14	A. Yes.	14
15	Q the baseline is zero?	15
16	A. Yes.	16
17	Q. Zero dollars.	17
18	A. Yeah.	18
19	Q. The one in the report for SCMA,	19
20	it is do you see that?	20
21	A. Yes.	21
22	Q. Was it your decision or somebody	22
23	else's decision to start the baseline of the	23
24	figure 2 at and not \$0?	24
25	A. It wasn't my decision. It is not	25
	-	

Page 1940

1	asked to do that?	1
2	A. I saw a draft, I was sent a draft	2
3	at some point in time and said, "This is what we are	3
4	proposing to say. Would you read to it, and is it	
5	reasonable?" And that was my comment, "Yes, it	5
6	looks reasonable to me."	6
7	Q. And you had no changes to that	7
8	draft?	8
9	A. Yeah, but I don't know what	9
10	version that was.	10
11	Q. So the answer to my question is	11
12	no, you weren't advised "Here's the final draft as	12
13	we are going to present it, subject to your	13
14	comments. Could you go through it and see if we've	14
15	got it right?"	15
16	A. I did not do that, no.	16
17	Q. Would you agree with me, when the	17
18	graph is depicted in the form on the sheet in front	18
19	of you, the larger form which is simply a	19
20	duplication of that figure 2 graph that we've looked	20
21	at, that the differentiation between the lowest	21
22	asserted cost producer and the highest asserted cost	22
23	producer appears to be quite less?	23
24	A. According to the graph, yes, it	24
25	is not the same graph. This one starts at as you	25
	—	

my graph.

Q. Did you review the final draft of the SCMA report to ensure that the figures, the numbers and everything that you had provided, including the numbers you provided were accurately depicted in the report?

A. No, because I wasn't sure whether Mr. Sutherland was going to use my figures in entirety. He may have had separate information that would have flavoured the numbers that he put into the sheet.

Q. Got it. But before it was signed off on, was the draft, the final draft of the report sent to you for review so that your work was accurately depicted?

A. There was a draft and then there was another report. I did see a draft of the report, whether it was the final draft, I don't know.

Q. So neither Mr. Sutherland or Mr. Chereb called you up and said, "Jim, we're about to sign off on this document; you've contributed a lot to the document, would you just take a look at it and see if it accords with your understanding of how the numbers were developed?" You weren't

pointed out. The other one starts at zero.
Q. And the one that starts at
makes it appear, would you agree with me, that
A. It's just a scale issue.
Q. Yes. Do you know who chose that
scale?
A. I do not know who chose the
scale.
Q. Have you ever actually designed
an aggregate crushing plant as an engineer?
A. I am not a professionally
registered engineer so I cannot sign off on a but
have I contributed to a design? Yes.
Q. You've contributed to a design
performed by engineers?
A. Yes.
Q. You were never actually employed
at a Tilcon quarry; that's correct?
A. No. Well, no, not the I was
just trying to think of a quarry that's been
acquired by Tilcon. So therefore that would be an
inaccuracy in my answer. To the best of my
knowledge, I've never managed or been employed by a
company that now Tilcon owns.

	Page 1942		Page 194
1	Q. And you've never been employed at	1	but our Raia operations were based in New Jersey, in
2	a Canadian quarry at any time?	2	Newark.
3	A. I	3	Q. You understand that the Whites
4	Q. Employed?	4	Point plant was intended to produce coarse aggregat
5	A. Not employed by the quarry, no.	5	
6	Q. Right.	6	A. I understand that it was going to
7	A. Do we have Canadian quarries,	7	based on well, it
8	yes, that belong to Blue Circle, yes.	8	depends on which report you read.
9	Q. And were they oceanside quarries		
10	such as the ones that we are considering here in the		
1	Maritimes part of Canada?	11	Q.
2	A. The ones in Canada, no.		
3	Q. Were you ever employed as an	13	A. Those are the products that are
4	employee of any of the quarries or the companies	14	defined in the stockpiles that I understand were
15	that own the quarries that we have seen in	15	defined by Mr. Bickford as being the coarse
16	New Jersey/New York?	16	fractions, yes.
17	A. Well, Hamburg Quarry belonged to	17	Q. And you are familiar with these
18	Blue Circle Raia and part of my job was to look at	18	product specifications?
19	the efficiencies of Hamburg Quarry and how it	19	A. Yes.
20	related to the New York market and supplying the	20	Q. And the
21	ready-mix operations here in New Jersey.		
22	Q. And that was in what city that		
23	you were involved in at the time that you were		; is that correct?
24	speaking of?	24	A. It means that the material passes
25	A. Well, our base was in Atlanta,	25	
	Page 1944		Page 194
1	Page 1944	1	Page 194
1	Page 1944	1	Page 194
1		1	Page 194
	Page 1944 Q. So you would agree with me that a ?	1	
	Q. So you would agree with me that a		Q. You heard Mr. Bickford's evidence
3 4	Q. So you would agree with me that a ? A.	4	Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in
3 4 5	Q. So you would agree with me that a	4	Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries?
3 4 5	Q. So you would agree with me that a ? A.	4 5 6	Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries? A. I did.
3 4 5	Q. So you would agree with me that a ? A. Q. And that a given quantity of	4 5 6 7	Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries? A. I did. Q. And you are not one of those
3 4 5 6 7	Q. So you would agree with me that a ? A Q. And that a given quantity of that's correct?	4 5 6 7 8	Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries? A. I did. Q. And you are not one of those people, that's correct? You haven't spent a
3 4 5 6 7	Q. So you would agree with me that a ? A Q. And that a given quantity of that's correct? A. Yes.	4 5 6 7 8 9	Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries? A. I did. Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct?
3 4 5 6 7	Q. So you would agree with me that a ? A. Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of	4 5 6 7 8 9 10	Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries? A. I did. Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct? A. I have spent a lifetime being
3 4 5 6 7	Q. So you would agree with me that a ? A. Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of aggregate that actually range in size within	4 5 6 7 8 9 10 11 12	Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries? A. I did. Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct? A. I have spent a lifetime being involved in the analyzing and looking at the design
3 4 5 6 7 10 11 12 13	Q. So you would agree with me that a ? A? A? Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of aggregate that actually range in size within accepting limits?	4 5 6 7 8 9 10 11	<ul> <li>Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries?</li> <li>A. I did.</li> <li>Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct?</li> <li>A. I have spent a lifetime being involved in the analyzing and looking at the design of quarries, and the resultant situation from the</li> </ul>
3 4 5 6 7 10 11 12 13 14	Q. So you would agree with me that a ? A Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of aggregate that actually range in size within accepting limits? A. Yes.	4 5 6 7 8 9 10 11 12 13	Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries? A. I did. Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct? A. I have spent a lifetime being involved in the analyzing and looking at the design of quarries, and the resultant situation from the design of a quarry, yes.
3 4 5 6 7 10 11 22 13 4 4 5	Q. So you would agree with me that a ? A. Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of aggregate that actually range in size within accepting limits? A. Yes. Q.	4 5 6 7 8 9 10 11 12 13 14	Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries? A. I did. Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct? A. I have spent a lifetime being involved in the analyzing and looking at the design of quarries, and the resultant situation from the design of a quarry, yes. Q. You've never signed off
3 4 5 6 7 1 1 2 3 4 4 5 6 7	Q. So you would agree with me that a ? A. ? Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of aggregate that actually range in size within accepting limits? A. Yes. Q. Q. correct?	4 5 6 7 8 9 10 11 12 13 14 15	Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries? A. I did. Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct? A. I have spent a lifetime being involved in the analyzing and looking at the design of quarries, and the resultant situation from the design of a quarry, yes. Q. You've never signed off A. Never signed off.
3 4 5 6 7 1 1 2 3 4 4 5 6 7 1 1 2 3 4 4 5 6 7 7 1 2 3 4 5 6 7 1 1 1 2 1 3 4 5 6 7 7 1 1 1 1 2 1 5 6 6 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Q. So you would agree with me that a ? A. Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of aggregate that actually range in size within accepting limits? A. Yes. Q. Correct? A. Yes.	4 5 6 7 8 9 10 11 12 13 14 15 16	Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries? A. I did. Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct? A. I have spent a lifetime being involved in the analyzing and looking at the design of quarries, and the resultant situation from the design of a quarry, yes. Q. You've never signed off A. Never signed off. Q as an engineer?
3 4 5 6 7 10 11 12 13 14 15 16 17	Q. So you would agree with me that a ? A. ? Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of aggregate that actually range in size within accepting limits? A. Yes. Q. correct? A. Yes. Q. A. Yes. Q. A. Yes.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries?</li> <li>A. I did.</li> <li>Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct?</li> <li>A. I have spent a lifetime being involved in the analyzing and looking at the design of quarries, and the resultant situation from the design of a quarry, yes.</li> <li>Q. You've never signed off A. Never signed off.</li> <li>Q as an engineer?</li> <li>A. No. I've signed off as the</li> </ul>
3 4 5 6 7 1 1 2 13 4 4 5 6 7 1 1 2 13 4 4 5 6 7 1 1 2 13 4 4 5 6 7 1 1 2 13 4 5 6 7 10 10 10 10 10 10 10 10 10 10 10 10 10	Q. So you would agree with me that a ? A. Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of aggregate that actually range in size within accepting limits? A. Yes. Q. correct? A. Yes. Q. A. Yes. Q. And you saw	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>Q. You heard Mr. Bickford's evidence</li> <li>with respect to his vast, life-long experience in designing quarries?</li> <li>A. I did.</li> <li>Q. And you are not one of those</li> <li>people, that's correct? You haven't spent a</li> <li>lifetime designing quarries; that's correct?</li> <li>A. I have spent a lifetime being</li> <li>involved in the analyzing and looking at the design of quarries, and the resultant situation from the design of a quarry, yes.</li> <li>Q. You've never signed off</li> <li>A. Never signed off.</li> <li>Q as an engineer?</li> <li>A. No. I've signed off as the president, though, of a company authorizing payment</li> </ul>
3 4 5 6 7 0 1 2 3 4 5 6 7 8 20	Q. So you would agree with me that a ? A Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of aggregate that actually range in size within accepting limits? A. Yes. Q. correct? A. Yes. Q. And you saw that's been referred to during this proceeding?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries?</li> <li>A. I did.</li> <li>Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct?</li> <li>A. I have spent a lifetime being involved in the analyzing and looking at the design of quarries, and the resultant situation from the design of a quarry, yes.</li> <li>Q. You've never signed off A. Never signed off.</li> <li>Q as an engineer?</li> <li>A. No. I've signed off as the president, though, of a company authorizing payment for the design of a quarry for a capital expenditure</li> </ul>
3 4 5 6 7 0 1 2 3 4 5 6 7 8 20 21	Q. So you would agree with me that a ? A Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of aggregate that actually range in size within accepting limits? A. Yes. Q. correct? A. Yes. Q. correct? A. Yes. Q. And you saw that's been referred to during this proceeding? A. Yes, it was misnamed though in	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries?</li> <li>A. I did.</li> <li>Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct?</li> <li>A. I have spent a lifetime being involved in the analyzing and looking at the design of quarries, and the resultant situation from the design of a quarry, yes.</li> <li>Q. You've never signed off</li> <li>A. Never signed off.</li> <li>Q as an engineer?</li> <li>A. No. I've signed off as the president, though, of a company authorizing paymer for the design of a quarry for a capital expenditure request, so</li> </ul>
3 4 5 6 7 0 1 2 3 4 5 6 7 8 2 2 2 2 2 2 2 2 2 2 2 2 2	Q. So you would agree with me that a ? A? A? Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of aggregate that actually range in size within accepting limits? A. Yes. Q. correct? A. Yes. Q. correct? A. Yes. Q. And you saw that's been referred to during this proceeding? A. Yes, it was misnamed though in the Rev D it was misnamed.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries?</li> <li>A. I did.</li> <li>Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct?</li> <li>A. I have spent a lifetime being involved in the analyzing and looking at the design of quarries, and the resultant situation from the design of a quarry, yes.</li> <li>Q. You've never signed off</li> <li>A. Never signed off.</li> <li>Q as an engineer?</li> <li>A. No. I've signed off as the president, though, of a company authorizing payment for the design of a quarry for a capital expenditure request, so</li> <li>Q. My point being</li> </ul>
3 4 5 6 7 10 11 12 13 14 15 16 17 18 20 21 22	Q. So you would agree with me that a ? A Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of aggregate that actually range in size within accepting limits? A. Yes. Q. correct? A. Yes. Q. correct? A. Yes. Q. And you saw that's been referred to during this proceeding? A. Yes, it was misnamed though in	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries?</li> <li>A. I did.</li> <li>Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct?</li> <li>A. I have spent a lifetime being involved in the analyzing and looking at the design of quarries, and the resultant situation from the design of a quarry, yes.</li> <li>Q. You've never signed off A. Never signed off.</li> <li>Q as an engineer?</li> <li>A. No. I've signed off as the president, though, of a company authorizing paymer for the design of a quarry for a capital expenditure request, so</li> <li>Q. My point being</li> <li>A I needed to understand the</li> </ul>
3 4 5	Q. So you would agree with me that a ? A? A? Q. And that a given quantity of that's correct? A. Yes. Q. And that includes pieces of aggregate that actually range in size within accepting limits? A. Yes. Q. correct? A. Yes. Q. correct? A. Yes. Q. And you saw that's been referred to during this proceeding? A. Yes, it was misnamed though in the Rev D it was misnamed.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. You heard Mr. Bickford's evidence with respect to his vast, life-long experience in designing quarries?</li> <li>A. I did.</li> <li>Q. And you are not one of those people, that's correct? You haven't spent a lifetime designing quarries; that's correct?</li> <li>A. I have spent a lifetime being involved in the analyzing and looking at the design of quarries, and the resultant situation from the design of a quarry, yes.</li> <li>Q. You've never signed off</li> <li>A. Never signed off.</li> <li>Q as an engineer?</li> <li>A. No. I've signed off as the president, though, of a company authorizing paymer for the design of a quarry for a capital expenditure request, so</li> <li>Q. My point being</li> </ul>

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	Page 1946		Page 1947
1	created a design for a quarry; that's correct?	1	before you, tab 13?
2	Is that correct?	2	A. 13?
3	A. For instance, in Greytown, I	3	Q. 13. This is an exhibit to
4	designed that plant because we took the plant down	4	Mr. Bickford's one of his statements and it's
5	in Greytown to produce aggregate to make asphalt, to	5	from the website of AggFlow.
6	produce asphalt. So, in that sense, yes, I designed	6	With this in mind, had you ever used
7	that plant. Did I sign off on it? No. As I said,	7	AggFlow
8	we needed this plant to supply rock.	8	A. Yes.
9	Q. And was that in 1976 or 1975?	9	Q before this
10	A. The Greytown situation was in	10	A. Yes.
11	it was actually after that, it was in the '80s.	11	Q. AggFlow came out in about 1995;
12	Q. In the '80s?	12	do you recall that?
13	A. Yeah.	13	A. I don't recall exactly when it
14	Q. And that was the last one that	14	came out but
15	you actually designed?	15	Q. Have you actually run a design of
16	A. No, when we	16	yours through an AggFlow simulation?
17	Q. I am talking about you. You.	17	A. Yes, I have AggFlow on my
18	A. Me personally?	18	computer.
19	Q. Yes. Designed a quarry from	19	Q. It is a renowned software
20	scratch like Mr. Bickford has for the last 45 years.	20	simulation product, isn't it?
21	A. If it was totally my work, yes.	21	A. There are opinions on that,
22	Q. That was the last one; that's	22	within the industry, of the people that I'm aware
23	correct?	23	of, but it is a good program.
24	A. If it was totally my work.	24	Q. It states on the first page:
25	Q. Could you go to, in the binder	25	"AggFlow software products are

	Page 1948		Page 1949
1	used by aggregate producers,	1	Q. And in that context, if we go to
2	miners, equipment manufacturers,	2	the top 25 US producers use AggFlow: Vulcan which is
3	engineers and dealers to simulate	3	the largest US producer of aggregate; Martin
4	aggregate and mining operations.	4	Marietta; Old Castle Materials that's Tilcon;
5	The software enables users to	5	correct?
6	build both simple and complex	6	A. Yes, sir.
7	crushing, screening and/or	7	Q. Lehigh Hanson, they are shown as,
8	washing plants on their computer	8	I think the fourth largest aggregate producer in the
9	screen." [As read.]	9	US?
10	You would agree with that?	10	A. I'm familiar with them.
11	A. Yes.	11	Q. And Cemex and Lafarge
12	Q. If you go to the last page of	12	North America which is shown as the six.
13	that document, bottom half of the page:	13	Now, AggFlow is good enough for them?
14	"Top 25 US producers use	14	A. Yes.
15	AggFlow." [As read.]	15	Q. AggFlow is not good enough for
16	A. Yes.	16	you?
17	Q. Just on that point, were you here	17	A. Yeah, it's good enough for me.
18	for Mr. Fougere's evidence?	18	Q. Have you actually did you
19	A. Yes.	19	independently run Mr. Bickford's design in this
20	Q. He worked for Martin Marietta?	20	case?
21	A. Yes.	21	A. No, there was no need. It
22	Q. Do you know that he's commented	22	Q. Let me finish, please. Through
23	on the use of AggFlow by Martin Marietta in his	23	the AggFlow program
24	witness statement?	24	A. No.
25	A. Yes.	25	Q that had already been done by

Page 1951

	Page 1950
1	Mr. Bickford; that's correct? You understood that?
2	A. Uh-hmm.
3	Q. Yes?
4	A. Yes.
5	Q. And you understood that he was
6	satisfied with the results for the use of this plant
7	as designed for the purpose required by the
8	customer; correct?
9	A. Yes, that's what he said.
10	Q. That's what he said. Now, did
11	Mr. Sutherland confirm your understanding that it
12	was appropriate to use the
	, the same cost for all of the land-based
14	quarries in New York/New Jersey area, regardless of
15	their distance from their destination?
16	A. Could you just rephrase the first
17	part of your question, I apologize for asking you to
18	do that.
19	Q. Not at all. Did you confirm with
20	Mr. Sutherland that it was appropriate to use a
	across the board for all
22	quarries that were land-based in New Jersey and
23	A. No, I did not confirm that with
24	Mr. Sutherland, no.
25	Q. And I'm advised that at least one

# Page 1952

	1 450 1952
1	Q. So in your calculation or your
2	assessment of trucking costs, you didn't actually
3	take into account the actual driving distance;
4	that's correct?
5	A. No.
6	Q. You didn't actually take into
7	account the time involved in getting from quarry A
8	to its destination in New York City; correct?
9	A. Because that would have been
10	somewhat indeterminate
11	Q. Is the answer "yes" or "no"?
12	A. No, but that it would have been
13	indeterminate.
14	Q. So the answer to my question is
15	you did not do an actual calculation of trucking
16	costs from the actual destination on the route that
17	it would take, the truck would take, into New York
18	City; that's correct?
19	A. I did not and I would like to
20	qualify that answer because I would not know exactly
21	the route. I don't know if the guy's going to go
22	take this road or that road. Unless I drove it
23	every day, I would not know the road conditions.
24	Q. And the difference in time,
25	distance, the route, the destination into New York,

1	of the quarries is well over 100 miles from New York
2	City. Do you know that?
3	A. It could well be, yes.
4	Q. Now, I understood you to say
5	earlier that you did a radius distance evaluation
6	and that it you did up to 35
7	A. Well, depending on
8	Q. Just let me finish up to
9	35 miles and then up to 45 miles and you stopped at
10	45?
11	A. Except for the quarries that
12	might have been on rail or on water.
13	Q. Did you understand that there are
14	some land-based quarries that
15	A. I have to qualify one thing that
16	might help you and it would certainly help me to be
17	on the same wavelength.
18	The quarry that you may be referring
19	to, I think I know which one it is. The definition
20	was within a trucking radius was a 35 and the 45,
21	but there was also a list of quarries that were
22	submitted, I think, by one of the gentlemen that
23	gave testimony, said don't forget to include these
24	so I had to go back and include those which might
25	have contributed to some of the revisions.

1	can all impact actual trucking costs, wouldn't you
2	agree with me, including hourly rates for the
3	driver, the use of the truck, the fuel cost, et
4	cetera; would you agree with me on that?
5	A. The trucking rates are quoted by
6	the owner of the company or howsoever you are
7	getting the quote from. So it becomes a fixed rate
8	and therefore that might influence what the quote,
9	but would not influence the actual cost.
10	Q. I think my question has been
11	misunderstood.
12	You didn't take into account the
13	time, the route, the miles, the fuel used, and time
14	for the hourly rates for the drivers in the
15	calculation of trucking costs from the various
16	quarries that you've got trucking cost
17	(Simultaneous speakers - unclear)
18	A. Not on an individual quarry
19	basis, no.
20	Q. So what I've said is correct?
21	A. On an individual basis it is
22	correct.
23	Q. And you didn't contact any
24	owners, operators on any of the quarries that have
25	been cited here on that map that we referred to

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	Page 1954		Page 1955
1	A. No, I already mentioned that.	1	A. No.
2	Q to confirm that your costs	2	Q. Now, at footnote 28 at the bottom
3	were even within the range of actual costs; that's	3	of page 11 of the report, it states it's in
4	correct?	4	reference to the chart. It states:
5	A. I did not contact the actual	5	"The estimated delivered cost to
6	quarries, no.	6	customers, including trucking
7	Q. Did you do any independent and	7	delivery costs on a per ton basis
8	I may have asked you this and if I am repeating	8	to final customers which are
9	myself, I apologize. Any independent analysis	9	assumed to be located in the
10	at all of the shipping rates from the various	10	Brooklyn Bronx area"
11	Canadian-based quarries?	11	Just pausing there, you told me that
12	A. No.	12	your trucking analysis related to a point in
13	Q. Do you know if Mr. Sutherland	13	Manhattan?
14	did?	14	A. Yes.
15	A. I don't know. I just don't know.	15	Q. Did you have any part in writing
16	I don't know	16	that reference to the Brooklyn or Bronx area?
17	Q. He's never told you that he did;	17	A. No.
18	correct?	18	Q. (Reading):
19	A. Yes. No, but he has lots of	19	"Using the estimated delivered
20	contacts that I don't know.	20	cost to customers allows us to
21	Q. May I suggest that that's pure	21	compare the relative costs of
22	speculation? Is that okay? It is sheer	22	quarries that use different modes
23	speculation; you don't know.	23	of transportation. For example,
24	A. I don't know.	24	by water, truck and rail. The
25	Q. Do you know if Mr. Chereb did?	25	cost curve also directly compares
			· •

# Page 1956

	Page 1956		Page 1957
1	the estimated cost to produce the	1	Q. How rough were the dynamics?
2	coarse aggregates products that	2	A. I would I couldn't how do I
3	Whites Point plant sell.	3	quantify that with a reference to what? In what
4	The calculations in this figure	4	measure do I quantify that? If you could explain to
5	are estimates and are intended to	5	me the scale on which you want to define the
6	provide graphical representation	6	roughness of that calculation, I can give you an
7	of the rough dynamics of the	7	answer.
8	market, rather than represent	8	Q. You don't know how rough the
9	exact calculations of a cost of	9	dynamics were?
10	each quarry." [As read.]	10	A. No.
11	Now, were you asked to review that	11	Q. You don't know how rough the
12	statement in referencing figure 2?	12	analysis was; that's correct?
13	A. No.	13	A. It says there it was comparative,
14	Q. So would you agree with the	14	so I don't know about the precision.
15	calculations that figure 2, that graph, are	15	Q. "Intended to provide a graphical
16	estimates; they are intended to provide a graphical	16	representations of the rough dynamics of the
17	representation of the rough dynamics in the market;	17	market."
18	would you agree with that statement?	18	A. Yes.
19	A. Yes.	19	Q. And you don't know how rough the
20	Q. How rough?	20	dynamics were; that's correct?
21	A. Pardon?	21	A. I can't comment. It's not my
22	Q. How rough?	22	statement.
23	A. How?	23	Q. You were never asked to assess
24	Q. Rough.	24	the roughness of the dynamics; that's correct?
25	A. Rough.	25	A. No. I can't say within

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	Page 1958		Page 1959
1	10 per cent or 15 per cent. I have no idea.	1	Q. It was very important to do the
2	Q. No idea. And you weren't asked	2	correct conversions
3	to comment on that description of the depiction of	3	A. Yes.
4	the quarries and their costs in figure 2 to say "is	4	Q from Canadian to US so that
5	that a correct characterization?"	5	you would actually have comparable costs?
6	A. I was not asked.	6	A. Yes, there were conversions
7	Q. And your understanding that the	7	provided in Mr. Rosen's analysis that we used to do
8	chart showing these various costs are expressed in	8	conversions. That's what I was advised to do if I
9	US dollars per ton; that's correct?	9	was doing a conversion.
10	A. Yes.	10	Q. So you used the conversion rate
11	Q. And it would be incorrect to mix	11	in Mr. Rosen's report to do the conversion from
12	up currencies; correct?	12	Canadian to US?
13	A. Yes.	13	A. Yes.
14	Q. And all of the figures you were	14	Q. With the result
15	working with were in Canadian dollars; that's	15	A. In that particular year.
16	correct sorry, American dollars; that's correct?	16	Q. In 2007?
17	A. Not all the time, no.	17	A. Yes.
18	Q. There were figures on this	18	Q. And the it was important in
19	chart	19	that result to ensure that all expenses that were
20	A. In this chart, the relative costs	20	expressed on 0756 were in the same currency, being
21	are in US dollars, but in preparing some of my cost	21	US dollars; that's correct?
22	analysis I was working Canadian dollars and we were	22	A. Yes, it would be.
23	doing conversions.	23	Q. In your analysis, when the
24	Mr. Sutherland did some conversions,	24	quarries were represented as being potential or
25	did I some conversions.	25	actual equivalent quarries, were you asked to
	Page 1960		Page 1961

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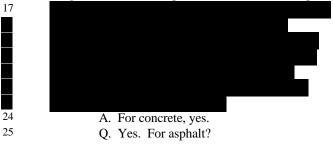
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1	comment on that?		
2	A. Would you mind just repeating		
3	last part of it, please?		
4	Q. Sure. I'll take you back to		
5	figure 2 on page 11. The figure is entitled		
6	well, it's described at the top of "New York City		
7	Aggregate Sources, Actual and Potential". Do you		
8	see that, tab 1, page 11.		
9	A. Yes. I have it.		
10	Q. And the title of the chart is:		
11	"2007 delivered cost to customers		
12	of equivalent coarse aggregate".		
13	Do you see that?		
14	A. Yes.		
15	Q. Did you understand the difference		
16	between limestone or dolomite on the one hand, and		
17	basalt and granite on the other hand for the purpose		
18	of supplying to the New York City market?		
19	A. Yes, I'm aware of the differences		
20	in that stone.		
21	Q. And you would agree that		
22	limestone and dolomite are not in the same class of		
23	rock for the use of the manufacture of asphalt in		
24	New York City?		
25	A. This was not specific to asphalt		

so therefore I don't think it was material. Q. So that differentiation between the use of dolomite and limestone in products such as concrete for the laying of a sidewalk or the building of a building was not in your mind when the equivalency analysis between the Whites Point Quarry and other quarries was undertaken by SCMA; that's correct? A. I did not make any distinction

based on end use of the product because the definition of market would change what's being used in asphalt, what was being used in concrete and one would have negated the other because of some of the density issues so ...

Q. If we look at the chart again and we go to the Canadian quarries and take for example,



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	Page 1963
ly crushed?	

	C		C
1	A. For asphalt, for base course,	1	Q. If they are properly crushed?
2	yes; for wearing course, no.	2	A. Yes.
3	Q. The asphalt that cars actually	3	Q. Correct.
4	drive on.	4	A. Yes.
5	A. Well, that's a very thin layer on	5	Q. And limestone is not; correct?
6	top, but no, not for the wearing course, no.	6	A. No, because of the skid
7	Q. And a that's called skid	7	resistance.
8	resistant?	8	Q. And did you do any analysis of
9	A. Yes.	9	the availability of what's called friction rock for
10	Q. It's called friction rock?	10	supply into the New York City market as part of this
11	A. Yes.	11	analysis?
12	Q. And there is a Superpave Standard	12	A. I did not.
13	in the United States; right?	13	Q. Do you know if anybody did?
14	A. For the wearing course, yes.	14	A. I'm not aware I'm not aware of
15	Q. For the wearing course?	15	what was done. The division of the different
16	A. Yes.	16	sectors to which the rock was supplied, I did not do
17	Q. And the Superpave Standard	17	that.
18	requires the adherence to strict specifications.	18	Q. Did you have any knowledge of
19	A. Including shape and many other	19	whether Corner Brook even opened up as a quarry?
20	parameters, yes.	20	A. I don't I have no knowledge if
21	Q. Exactly. And granite and basalt	21	it's been opened up, no.
22	are qualifiers for that use?	22	Q. Did you have any understanding of
23	A. Yes.	23	where Corner Brook was located
24	Q. Of	24	A. Yes.
25	A. I'm aware.	25	Q in relation to Whites Point?

Page 1962

# Page 1964

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1	A. Yes, when I was doing my analysis
2	I was given the location and I plotted that on
3	Q. And if you go down and I think
4	you were here this morning for Mr. Power's evidence.
5	If you go down to the shipping cost, the yellow line
6	in the middle of the page, you saw from our
7	discussion that
	; would you agree with
13	that? Or do you know?
14	A. I don't know. I can't comment.
15	It is beyond my expertise.
16	Q. Did you ever ask Mr. Power "What
17	about these rates here?"
21	A. I don't
22	Q. Did you have any
23	discussion about these to say, "Is that reasonable?"
24	A. It's I couldn't comment.
25	I have no I did not study the shipping costs.

Q. But you knew Mike Power was being relied upon for the assessment of reasonableness for shipping costs. Did you have any curiosity about that?

A. My interest in each quarry was I went to Auld's Cove back in the '70s. I am familiar with Auld's Cove. I was more interested in his -his costs on other things and the shipping cost is beyond my expertise. I was not asked to comment on the shipping cost.

Q. Do you know if anybody was assigned to verify with Mike Power what the relative shipping costs were from Canadian quarries, ocean side down to New York City?

A. I don't know if anybody was or not. I'm not aware.

Q. Do you know if the Belleoram quarry ever opened?

A. I don't know if it opened or not.

Q. And there were costs, variable

costs that were identified here for the Belleoram quarry?

A. Yes.

Q. And did you develop those?

A. Yes.

# W

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WILLIAM	I RALPH CLAYTON ET AL v. GOVERNMENT OF CANADA		February 24, 201
	Page 1966		Page 1967
1	Q. Based on a quarry that was	1	Q. Then we won't
2	permitted in 2007 and never opened?	2	A in-depth analysis through
3	A. Well, similarly with Whites	3	Google Earth, cost analysis, measurements, a whole
4	Point; the costs that were developed for that but	4	range of things. But I think it's important and I
5	that isn't opening either.	5	wish to say that it's difficult to comment upon the
6	Q. That's a good point. You were	6	costs unless you understand my methodology.
7	developing costs for a quarry in Whites Point that	7	Q. So you were here for
8	was not built, that had never operated, that had not	8	Mr. Fougere's evidence yesterday?
9	been shipped to or from, that had never employed	9	A. Yes.
10	anybody, and that had never actually published a	10	Q. Yes. And you heard that he was
11	design for the quarry plant and never published a	11	employed by Martin Marietta to manage that quarry?
12	marine terminal for the quarry plant. And you were	12	A. Yes.
13	able to ratchet back costs that you've been given in	13	Q. And you heard his evidence
14	this proceeding to calculate a cost per ton of a	14	regarding the
15	production of aggregate at that quarry?		
16	A. You would need to understand my		
17	methodology in order to understand how that could	17	A. I heard his comments, yes.
18	happen.	18	Q. Yes. Did you make any
19	Q. So	19	investigation at the time you were writing or
20	A. Do you wish me to describe my	20	contributing to this report, investigation of the
21	methodology?	21	relative cost that might be might apply to an
22	Q. Well, if there is a short answer	22	Auld's Cove quarry and your calculated costs for
23	to that.	23	Whites Point?
24	A. There is not a short answer	24	A. Yes.
25	because it involves	25	Q. And your relative cost for
	Page 1968		Page 1969
1	looking down the page, total variable cost is	1	A. No, I think it was costs provided
2	; do you see that?	2	to go into some of them were to go into
3	A. Yes.	3	Mr. Rosen's spreadsheets. I mean, we compared those
4	Q. If you go across the page to the	4	costs as well so I think this is a hybrid of all
5	first Whites Point line is ?	5	these costs.
6	A. Yes, I see that.	6	Q. That's your calculation of the
7	Q. And then for the second line,	7	hybrid and that has never actually been produced;
8	. Now, you said you made an investigation on	8	that's correct?
9	the variable cost between these two quarries and	9	A. Well, you are comparing something
10	what investigation did you make?	10	that's not been produced at Whites Point, that's not
11	A. Well on Whites Point we had two	11	been produced at a quarry that didn't open so the
12	sets of information which is what this is referring	12	comparative is relative to the deposit and how it
13	to.	13	looks, and what was needed, the volumes that are
		14	going to be done, labour, et cetera, et cetera.
		15	Some of these things had some
16	Q. ?	16	commonality and some things didn't.
17	A. Yes, we referenced the document	17	Q. Yes. So you've heard the
18	there somewhere.	18	
19	Q. Yes.		
20	A. And then similarly we took some		
21	of the costs that were provided by the proponents of		

of the costs that were provided by the proponents of Whites Quarry in the last column. For the other quarry --Q. Just stopping there. That was in

- 25 the EIS; right? That's what you are relying upon?

23 24

A. Yes.

Q.

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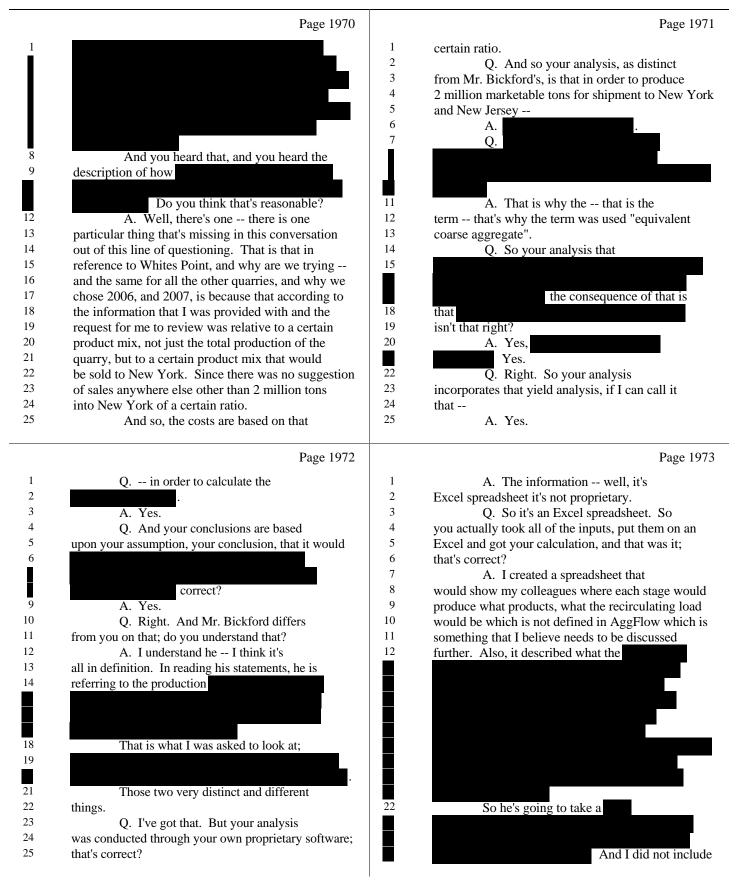
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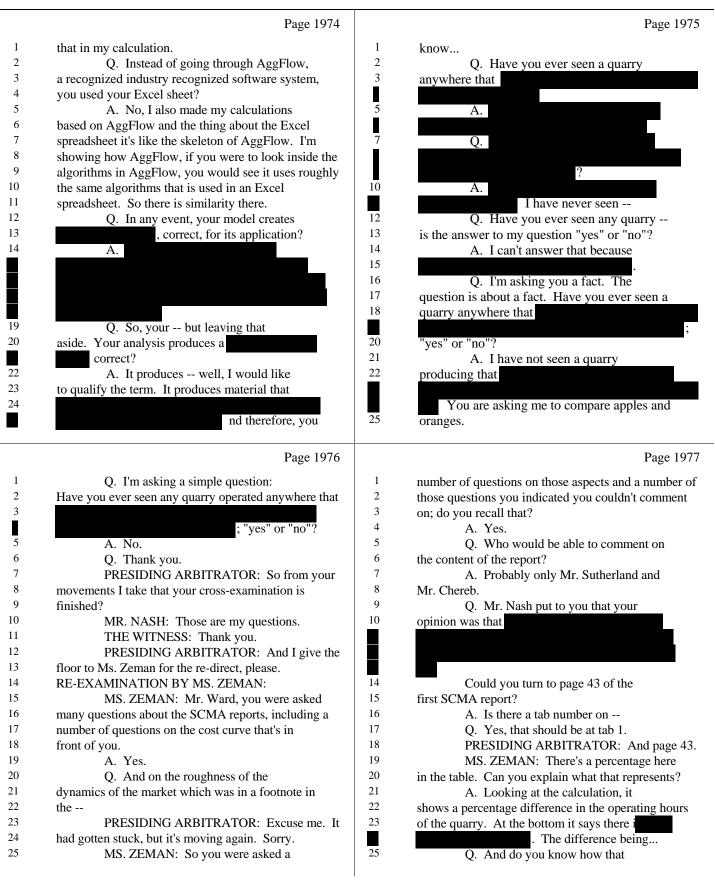
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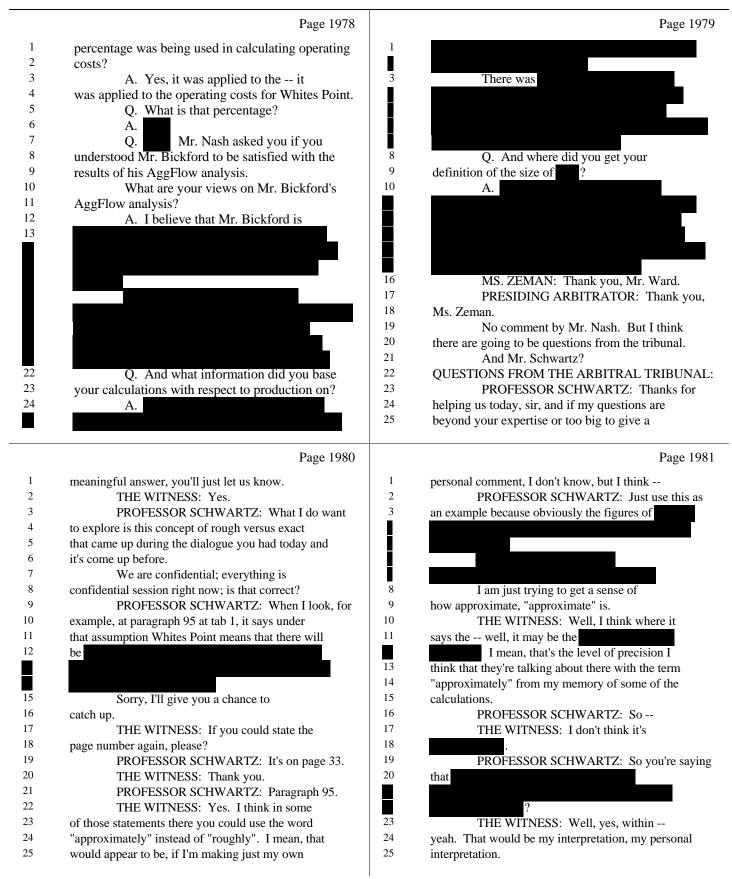
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	Page 1982		Page 1983
1	PROFESSOR SCHWARTZ: Okay. I'm	1	from putting it in other plants. So there are
2	looking at just a few paragraphs down. Paragraph	2	things that happen. But when you actually go to buy
3	97.	3	a crusher, it may be that by the time you got around
4	THE WITNESS: Yes.	4	from approval of the plant to actually buying the
5	PROFESSOR SCHWARTZ: And there is a	5	crusher it's more than nuts and bolts, you might
6	reference that's where it starts and then if you	6	need a slightly different tensile strength on
7	flip over the page to page 34, one-time 10 per cent	7	certain valves so they are more expensive.
8	contingency at the startup of the capital spending.	8	There are many provisions in
9	THE WITNESS: Yes, sir.	9	designing a plant, whether it uses 5-ply conveyer
10	PROFESSOR SCHWARTZ: So there when	10	belt to 3-ply conveyer belt. In other words, that's
11	you are doing estimate of a startup, there is a	11	the thickness of the conveyer belt.
12	contingency you put in in your estimates that's	12	For the conditions you may decide
13	related to what; the first what year, the first few	13	that well, because the rock is coming out coarser
14	years of operation compared to other years; how does	14	and sharper, we don't want the sharpness of the rock
15	that work?	15	to tear the belt, so we would use a thicker belt.
16	THE WITNESS: No. What happens is	16	So there are things that you may make changes to
17	when you put together a quote for building a plant,	17	that are not seen in the design stage and that
18	invariably, in my experience and talking to other	18	10 per cent contingency is there to cover those
19	industry colleagues, there is a tendency to	19	expenses.
20	understate the cost of the plant.	20	Plus the length of time it takes you
21	There are things that you are into	21	to do things. They may say, "well, we can construct
22	that you just don't see. You may find when you put	22	that plant and build it in 10 minutes" sorry,
23	the foundations in you have found that the	23	in sorry, I used the term "in ten weeks", and
24	groundwater is higher than what you think; that this	24	what happens is it takes you 14 weeks. You have all
25	doesn't fit where you thought it would seem to fit	25	those additional labour costs so those. Over
	Page 1984		Page 1985

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# Page 1984

	Fage 1964		rage 1965
1	expenditures would go against that contingency.	1	difference between capital costs and operating
2	PROFESSOR SCHWARTZ: Okay. You are	2	costs. I'm just trying to get a general sense if
3	doing an estimate of a startup or you're doing an	3	I'm asking an intelligible question of you're in the
4	estimate of projected profitability or cost of a	4	projection business, as are some of our expert
5	plant that's been in operation for year. How much	5	witnesses, as I understand it. You might be asked
6	of a difference am I going to see in the estimates	6	sometimes, as I understand it, "give me an estimate
7	and in your confidence in those estimates between a	7	of net profits of a quarry that's just starting up"
8	project that hasn't been in operation and a project	8	versus somebody says "give me an estimate of how
9	that has been in operation for a year?	9	this quarry is going to work out after it's been in
10	Here it refers to 10 per cent	10	operation for a year."
11	one-time contingency. Is that a reasonable sense of	11	One world is a startup; one world's
12	the difference between, you know, at startup versus	12	been in operation for a year. Is there going to be
13	what you know after one-year, 10 per cent?	13	about 10 per cent a fair figure of what the
14	THE WITNESS: It is on the total	14	difference is going to be?
15	expenditure of capital expenditure for buying the	15	THE WITNESS: In my experience there
16	equipment, erection and installation of electric	16	is always an understatement of the cost in the order
17	power and everything that goes into making the	17	of 10, maybe 15 or even 20 per cent in the operating
18	plant. It is not necessarily relating to the	18	cost for the first year because you are going
19	operating costs, the cost incurred for operating for	19	through an awful lot of teething troubles, setting
20	a year. It is mostly related to the actual cost of	20	up your product mix, a lot of things you don't
21	buying and constructing the plant, not operating the	21	foresee.
22	plant.	22	PROFESSOR SCHWARTZ: Thank you.
23	Did that make the distinction for	23	PROFESSOR McRAE: Mr. Ward, could you
24	you, sir?	24	just go back under this sheet to the last two
25	PROFESSOR SCHWARTZ: I understand the	25	columns with both "Whites Point".

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	Page 1986		Page 1987
1	THE WITNESS: Yes.	1	costs that were used from the second column?
2	PROFESSOR McRAE: There are two	2	A. I believe that those were based
3	"Whites Point" there, and at the bottom I think your	3	on the adjusted costs, based on the increased
4	attention was drawn to this, based on plaintiff's	4	production required to produce that certain product
5	costs. So, what's the distinction between that and	5	mix for sale in New York City that were put into the
6	the other and by "plaintiff's costs" you mean	6	Rosen final spreadsheet. In other words, they had a
7	these were the costs put forward by the proponent	7	set of costs in the spreadsheet.
8	but on your costs based on or the other column		
9	based on costs put forward by the proponent?		
10	I'd like to get clarity on the		
11	difference between those two.	11	PROFESSOR McRAE: Thank you.
12	THE WITNESS: Yes, these are based on	12	PRESIDING ARBITRATOR: A couple of
13	the plaintiff's costs in the far right. My costs	13	questions from me to Mr. Ward, and they relate to
14	are based on my estimation, using my methodology to	14	the even though usually I prefer sea-based
15	come up with what the variable costs would be for	15	questions rather than land, namely the cost of
16	the quarries.	16	freight to New York by truck. That is something
17	We felt that rather than use my total	17	which, despite quite extensive questioning by
18	estimates of the Whites Point costs, that since	18	Mr. Nash has still remained a bit of a mystery to
19	there were costs were provided, we would be far more	19	me.
20	accurate and better off to use what was provided	20	How you can first, you
21	where we could, and then we would and then if	21	described we looked at the Google map that's in
22	there were any changes to those costs, we would make	22	there, there are a lot of quarries, you said there
23	them in light of being fair to the comparison.	23	about 15 quarries in New Jersey and in order to get
24	PROFESSOR McRAE: So the second	24	a hold on them you said you were drawing radiuses,
25	column "7" is based on whose costs? What were the	25	radiuses?
	Page 1988		Page 1989
1	THE WITNESS: Yes.	1	not involved in the traffic. There may be routes
_		.	not mitor to mit de duffer i nore may de routes

1	THE WITNESS: Yes.
2	PRESIDING ARBITRATOR: I can't
3	possibly pronounce the "radii" that Mr. Nash said,
4	so radiuses, and you said every five miles.
5	THE WITNESS: Initially, yes.
6	PRESIDING ARBITRATOR: Later on you
7	said 35, 45.
8	THE WITNESS: Yeah, initially we
9	tried to look at the quarries in
10	PRESIDING ARBITRATOR: But what was
11	the point of these radiuses if, at the end, you come
12	up with a figure of 14.50 that you apply across the
13	board, which means that you assume for the purposes
14	of this sheet, you assume that the costs are $$14.50$
15	irrespective of whether the quarry is 10 kilometres
16	from Manhattan or 100 kilometres.
17	THE WITNESS: Because the actual
18	definitive cost was very difficult because some of
19	the quarries are positioned in a route whereby
20	during the night they could achieve load-out of a
21	concrete customer during the night when there's no
22	traffic, whereas other quarries may not be in
23	that they could either I let me start again.
24	You could either load out during the
25	night time to a concrete supplier so that you are

1	not involved in the traffic. There may be routes
2	that a truck driver knows where he does not get
3	involved in traffic. I don't know those routes. We
4	don't know those routes. We don't know exactly the
5	route the truck driver would take when in my
6	experience, truck drivers will take the quickest
7	route, not normally the shortest route, because, you
8	know, time is money to them, and so to define the
9	exact route, to define the exact time of day they
10	would travel, that would give you the average speed;
11	to define all the other things, it was very
12	difficult. That's why we used, on one of the
13	spreadsheets, a calculation to try and derive what
14	the hourly rate for operation of a truck was and
15	then try to use that in this determination and then
16	apply that to a radius.
17	PRESIDING ARBITRATOR: That would be
18	my next question: How did you arrive at the
19	that you insert in the sheet?
20	THE WITNESS: Well, there would be
21	some industry and local knowledge that I believe
22	that I have and Mr. Sutherland had I gave him
23	what industry information I had and he obviously has
24	his own from my knowledge of Mr. Sutherland, so
25	there was that. And then there was the calculation

\_\_\_\_

	Page 1990		Page 1991
1	done on the I forget what spreadsheet it was,	1	drive quicker; there are no toll fees to pay, et
2	what the name is, but on that spreadsheet you will	2	cetera.
3	see that there's a calculation defining the	3	So, to me, I just wonder: Wouldn't it
4	operating costs of a truck which was taken from the	4	have been more, how should I say, state of the art
5	industry.	5	to not insert anything here, because that will
6	PRESIDING ARBITRATOR: So the	6	have an impact on the final cost?
7	came, as you said, from the industry.	7	Let me just ask the last question:
8	THE WITNESS: It came from	8	When you look at the last two quarries on land, the
9	calculations based on industry information.	9	last two white quarries which is
10	PRESIDING ARBITRATOR: It is still		
11	I still don't get it but probably that's my problem.		, why did you not apply
12	THE WITNESS: No, sir, it's probably	12	the estimate there, there is nothing in there?
13	me that's in trying to come up with some kind of	13	THE WITNESS: No, they're rail. They
14	a trucking cost	14	would come in by rail, I believe. They are
15	PRESIDING ARBITRATOR: Because if you	15	PRESIDING ARBITRATOR: They are in
16	say is some kind of an estimate	16	the truck they are in the "Truck" bracket.
17	THE WITNESS: Yes.	17	THE WITNESS: Under?
18	PRESIDING ARBITRATOR: but an	18	PRESIDING ARBITRATOR: They are in
19	estimate must be based on some experience as to what	19	the procession and suddenly there is nothing
20	the costs are. And with regard to the costs, you	20	there, so I wonder what was the reason for not
21	say we cannot really calculate because it might be	21	indicating a number here.
22	that the costs of getting the stuff from a quarry	22	THE WITNESS: Well, because
23	100 miles from New York compared to the costs of	23	PRESIDING ARBITRATOR: It is not the
24	doing the same exercise with a quarry 20 miles,	24	train.
25	could be the same because the truck drivers could	25	THE WITNESS: No, if you look on the

## Page 1992

1	line where it says there are on the far left-hand	1
2	corner under map reference, you would see	2
3	"Location", "Operator", "County", "State", et	3
4	cetera.	4
5	You will see "T" equals truck, "R"	5
6	equals rail, "W" equals water. You will see that	6
7	under those two quarries in that row, it says "R"	7
8	meaning rail.	8
9	PRESIDING ARBITRATOR: So no trucks	9
10	are used to get the	10
11	THE WITNESS: No trucks, it is all	11
12	rail. There would be a truck used to get it from	12
13	rail if the operator was not on rail.	13
14	PRESIDING ARBITRATOR: Okay.	14
15	THE WITNESS: So it signifies that it	15
16	was a rail market.	16
17	PRESIDING ARBITRATOR: Thank you,	17
18	sir.	18
19	THE WITNESS: Thank you.	19
20	PRESIDING ARBITRATOR: Any further	20
21	Mr. Nash wants to and I expect for	21
22	Mr. Spelliscy to say, "And I agree", because then	22
23	you are	23
24	MR. SPELLISCY: It is against my	24
25	nature to agree, but I won't object.	25

PRESIDING ARBITRATOR: Thank you.
FURTHER CROSS-EXAMINATION BY MR. NASH:
MR. NASH: Just going back to a
question that you were asked on re-direct, if you
could go back to page 34 of tab 1 actually, I
apologize, this is a question arising from Professor
Schwartz's question to you.
At the very top there is a reference,
at the very top of page 34 there is a reference to:
"Capital expenditures should be
increased to include a one-time
10 per cent contingency at the
start of a capital spending." [As
read.]
A. Yes.
Q. So for example, if capital
spending was \$50 million you would budget for a
one-time 10 per cent contingency at the front end of
the project?
A. Yes, sir.
Q. Going back to Exhibit 0756, we
look at the variable cost, the cash cost, where are
the capital costs of building the quarry?
A. You would not have those in there
because that's a fixed cost. That would translate

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	Page 1994		Page 1995
1	as a fixed cost because that would be amortization	1	Q for your purposes here; that's
2	of the fixed cost over a period of time, it would be	2	correct?
3	dependent upon the volume of the material.	3	A. Correct.
4	The cash costs relate to the actual	4	Q. Going back to page 33 which
5	cost to produce in that one piece of material.	5	counsel did take you to.
6	Q. But the capital cost is part of	6	PRESIDING ARBITRATOR: 33.
7	the cost of building and operating a quarry?	7	MR. NASH: It is just a couple of
8	A. But in trying to I apologize	8	pages on in that binder.
9	for interrupting you.	9	MR. SPELLISCY: I am sorry, Mr. Nash,
10	Q. So, if the capital cost of the	10	you said, "that counsel took you to". Is this a
11	quarry is \$20 million, and the capital cost of	11	question arising out of the tribunal's questions?
12	another quarry is \$100 million, there are that's	12	MR. NASH: No, it is arising out of
13	a cost, it's not a freight cost; is that correct?	13	counsel's.
14	A. It is.	14	MR. SPELLISCY: I think you already
15	Q. And as you said, that would be	15	said you didn't have any re-cross questions after we
16	depreciated over an appropriate time period;	16	sat down, so I would object to this.
17	correct?	17	MR. NASH: That's fine.
18	A. Yes.	18	PRESIDING ARBITRATOR: That's
19	Q. And that would be then taking	19	probably true, yes. So thank you.
20	into account as an expense related to depreciation	20	Thank you, Mr. Nash.
21	for the operation of the quarry over time?	21	MR. NASH: That's not a problem.
22	A. Yes.	22	PRESIDING ARBITRATOR: I think we are
23	Q. And so the capital cost of each	23	fine and thank you, Mr. Ward, you are relieved.
24	of these quarries has not been included	24	THE WITNESS: Thank you.
25	A. No.	25	PRESIDING ARBITRATOR: Your
	Page 1006		Page 1007

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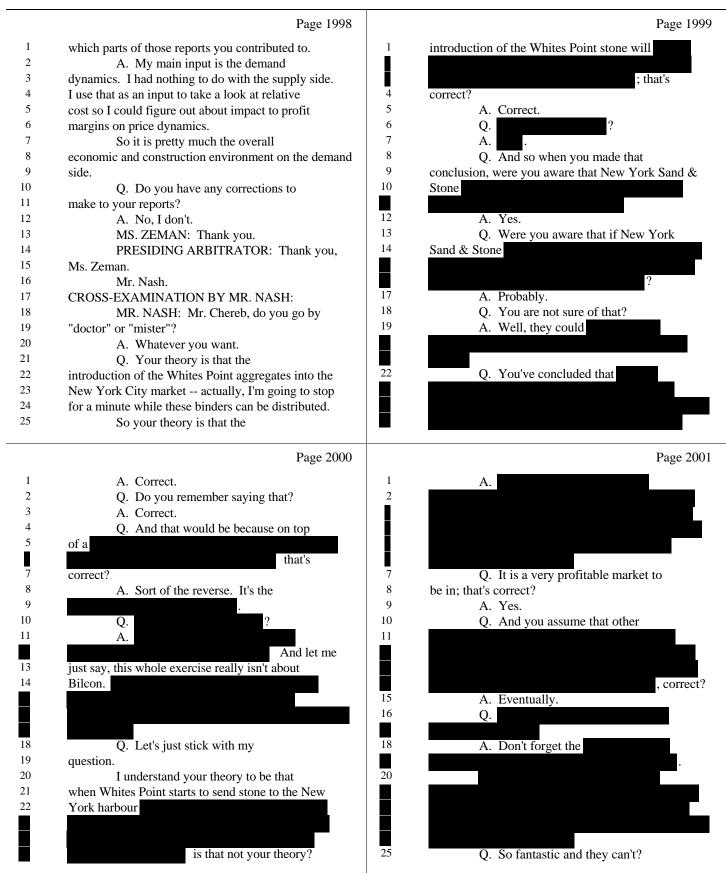
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1	examination has come to an end and thanks for your
2	presence and have a safe trip to wherever.
3	THE WITNESS: Atlanta, Georgia.
4	PRESIDING ARBITRATOR: Hopefully not
5	by truck.
6	THE WITNESS: Thank you, gentlemen.
7	PRESIDING ARBITRATOR: Thank you. I
8	think now we are having our bigger coffee break and
9	I think we can be quite generous, so let's have a
10	coffee break until 11:50, 11:50 sharp.
11	Recess taken at 11:31 a.m.
12	Upon resuming at 11:52 a.m.
13	PRESIDING ARBITRATOR: If there is
14	nothing organizational to discuss, and that doesn't
15	seem to be the case, welcome, Mr. Chereb to the
16	witness stand.
17	Good morning, Mr. Chereb.
18	THE WITNESS: Good morning.
19	PRESIDING ARBITRATOR: Would you be
20	so kind and read the statement that is in front of
21	you.
22	THE WITNESS: Certainly.
23	I solemnly declare upon my honour and
24	conscience that I will speak the truth, the whole
25	truth and nothing but the truth.

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1	PRESIDING ARBITRATOR: Thank you,
2	Mr. Chereb.
3	AFFIRMED: DR. DAVID CHEREB
4	PRESIDING ARBITRATOR: Ms. Zeman, you
5	have the floor.
6	MS. ZEMAN: Thank you.
7	EXAMINATION IN-CHIEF BY MS. ZEMAN:
8	MS. ZEMAN: Good morning, Dr. Chereb,
9	could you briefly describe your background and
10	experience for the tribunal.
11	A. I'm vice-president and chief
12	economist for SC Market Analytics. I am chief
13	economist because I have a background in economics,
14	PhD in economics.
15	Before that I worked for David Chereb
16	Group Inc. doing construction materials analysis;
17	before that with ARC America, a construction
18	products and aggregates company; before that, with
19	Getty Oil doing long-range planning; before that in
20	the Air Force doing space mission planning with the
21	Air Force, NASA and other people I won't mention.
22	Q. Are you one of the authors of the
23	SC Market Analytics reports?
24	A. Yes I am.
25	Q. Can you explain for the tribunal

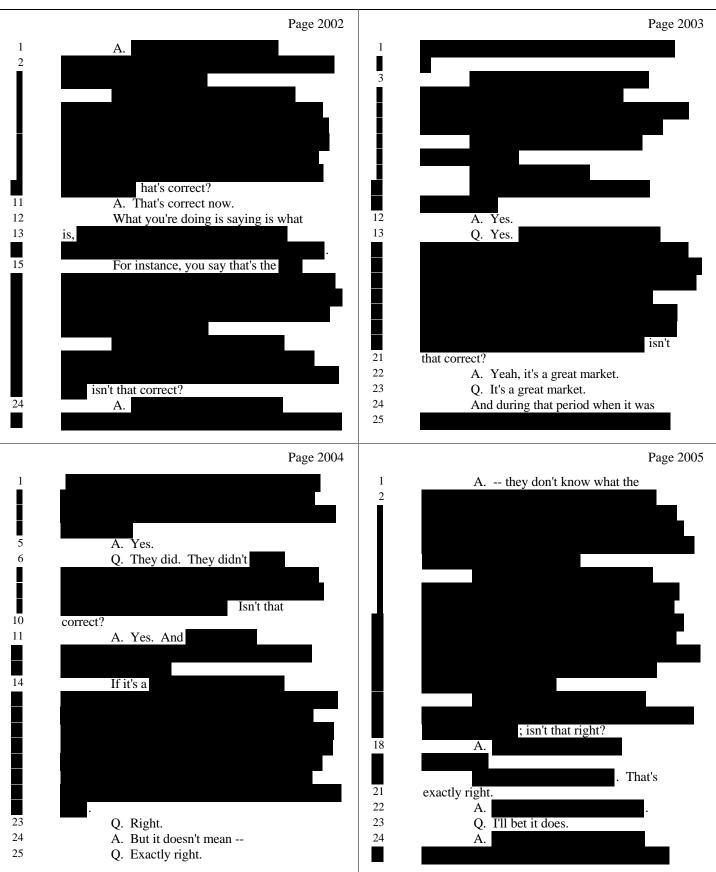
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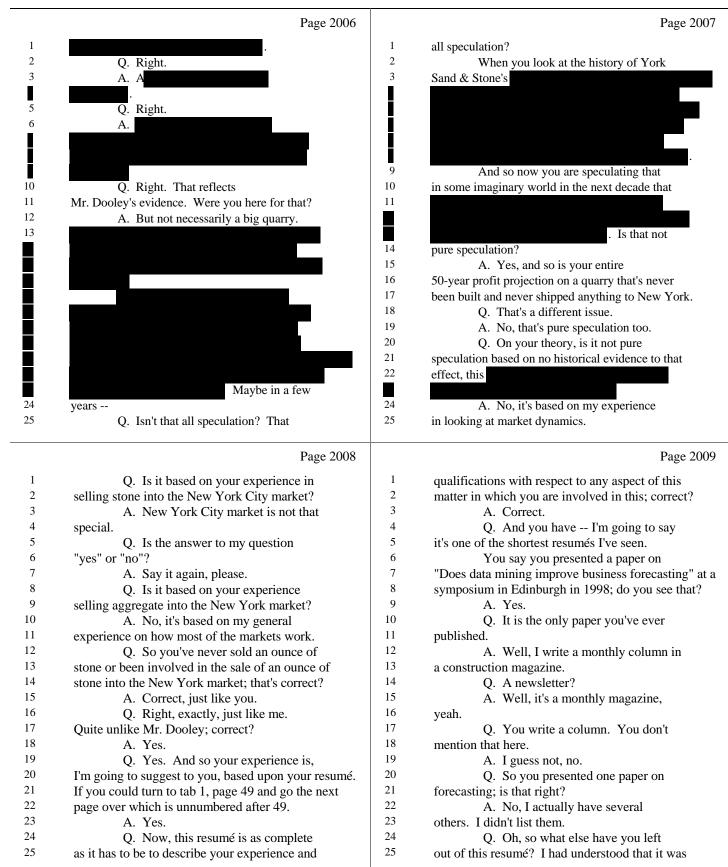
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### WILLIAM RALPH CLAYTON ET AL v. GOVERNMENT OF CANADA



### WILLIAM RALPH CLAYTON ET AL v. GOVERNMENT OF CANADA

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Page 2013

	Page 2010		Page 2011
1	complete, that it would tell us all about your	1	questions earlier saying your analysis was based on
2	qualifications and expertise for the purpose of your	2	your experience?
3	involvement in this proceeding?	3	A. Yes.
4	A. I'm not sure you are being	4	Q. And so your forecasting is based
5	serious when you ask that. Are you?	5	on your experience?
6	Q. Do you have another resumé?	6	A. Well, algorithms, experience,
7	A. I'm fairly old and I've done a	7	yes.
8	lot of things, so this is the relevant part.	8	Q. Algorithms?
9	Q. And so on the second bullet on	9	A. Yes.
10	the first bullet you have 30 years' experience	10	Q. Right. So your forecasting
11	forecasting North American construction materials;	11	doesn't include going out and actually visiting
12	do you see that?	12	quarries, understanding markets, it's algorithms; is
13	A. Yes.	13	that right?
14	Q. And you've got in the second	14	A. It's understanding markets, yes.
15	bullet, you've provided a specialized economic and	15	Q. Did you go out and visit any of
16	market forecasting services to the cement, concrete	16	the many quarries that are commented on in your
17	and aggregates?	17	report?
18	A. Yes.	18	A. No, that wouldn't be appropriate.
19	Q. So you are a forecaster?	19	Q. It wouldn't be appropriate to
20	A. Yes.	20	actually see a quarry in operation to understand its
21	Q. And your forecasting is based	21	cost, to understand its operations, to understand
22	upon your personal experience?	22	its delivery systems, to understand all of those
23	A. Could you explain "personal	23	things to come to your conclusions?
24	experience"?	24	A. No, because I'm dealing with the
25	Q. Well, you answered one of my	25	demand side.
	· · · · · · · · · · · · · · · · · · ·		

Page 2012

	C	
1	Q. Did anyone on your team for this	1
2	report go out to any number quarries in the	2
3		3
	?	4
5	A. Not that I'm aware of.	5
6	Q. Didn't you think it was important	
7	for someone on your team to go out and see these	
8	quarries and see whether they would amount to actual	
9	or potential competitors at Whites Point?	
10	A. If it were 40 years ago, yes.	10
11	But now somebody with Jim Ward and Colin	11
12	Sutherland's experience and the electronic tools we	12
13	have, they can get a pretty good bird's eye view	13
14	from each of the quarries.	14
15	Q. They can get a bird's eye view	15
16	from how the crow flies; isn't that right?	16
17	A. Correct.	
18	Q. From a quarry, how a crow flies	18
19	from a quarry in New Jersey or New York to some part	19
20	of downtown New York; that is correct?	20
21	A. Yes.	
22	Q. What they didn't get from that	22
23	analysis is an actual reliable, verifiable	23
24	calculation of costs; would you agree with that?	24
25	A. They do not have the internal	25

financial documents for these quarries. Q. They don't have any internal financial documents; is that correct? A. As far as I know. Q. that's correct? A. As far as I know. Q. You've heard that discussion this morning. You've been in the room for the discussion this morning about shipping? A. Yes. Q. And you've heard the discussion about how the cost of shipping f ; did you hear that? A. Yes. Q. And did you hear that the cost of A. I think I heard two different figures, but okay, yes. Q. ? A. Yes.

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	Page 2014		Page 2015
1	Q. And did you hear the discussion	1	Q. And is that why his quite
2	this morning about ?	2	extensive CV was put into the report, to add
3	A. Yes.	3	substantiation for the quality of the report?
4	Q. And you heard the discussion	4	A. Well, he's knowledgeable.
5	about ?	5	Q. He's knowledgeable. He's
6	A. Yes.	6	knowledgeable about shipping rates. He dealt with
7	Q. And you saw the differences in	7	them for years. He was being charged
8	distance?		
9	A. Yes.	9	Anybody to your knowledge ask him,
10	Q. Didn't you take any step to		
11	verify whether any of those shipping costs had any		
12	reasonable basis whatsoever?		
13	A. I'm not an expert in shipping and	13	Do you know that?
14	I have no opinion about shipping costs.	14	A. As I said before, I had no input
15	Q. So you relied completely on what	15	on supply side and I have no opinion about the
16	Mike Power told Mr. Sutherland with respect to the	16	supply side. I took it from the people on the team
17	calculation of shipping costs; that's correct?	17	and I accepted it as an input.
18	A. I relied on Colin Sutherland's	18	Q. So you relied on Mr. Sutherland;
19	input and Jim's input, yes.	19	that's correct.
20	Q. Mike Power?	20	A. Correct.
21	A. And Mike. I did not deal with	21	Q. And he relied on Mr. Powers;
22	Mike Power very much.	22	that's correct?
23	Q. Did you know that he was even	23	A. Partly.
24	being engaged for advice?	24	Q. And he also anybody else?
25	A. Yes.	25	A. No, you said "rely". I mean, he
	Page 2016		Page 2017

## Page 2016

1	relied on him. He relied on his own experience and
2	judgment.
3	Q. His own experience shipping stone
4	?
5	A. I don't mean that. His
6	experience in the aggregates and construction
7	markets.
8	Q. Is he a shipping expert,
9	Mr. Sutherland?
10	A. No.
11	Q. I don't see anything about
12	shipping in his resumé.
13	A. Once again, I have no opinion
14	about the supply side in shipping.
15	Q. Well, you are signing onto a
16	report as a co-signatory?
17	A. Correct.
18	Q. We were told by Canada that you
19	could speak to all aspects of the report.
20	MR. SPELLISCY: Sorry, that's
21	actually well, to be clear, it does say that.
22	But you have Mr. Sutherland here. It seems very odd
23	to me to be cross-examining Mr. Chereb on
24	Mr. Sutherland's experience since you had the
25	opportunity to call Mr. Sutherland.

1	The exact language was:
2	"Mr. Sutherland co-authored and
3	developed the opinions and
4	conclusions contained in all
5	areas of the two SCMA reports".
6	[As read.]
7	And the exact language from
8	Mr. Chereb is:
9	"Dr. Chereb co-authored both
10	reports and developed the
11	opinions and conclusions
12	contained in the two SCMA expert
13	reports particularly with respect
14	to the market and pricing
15	analysis in both reports." [As
16	read.]
17	MR. NASH: So, Mr. Chereb, the letter
18	states I'll ask the tribunal and the witness to
19	turn to tab 3, paragraph 2:
20	"As conveyed in the parties'
21	correspondence described above,
22	Mr. Sutherland and Mr. Chereb as
23	co-signatories to the report and

co-owners of SCMA are able to

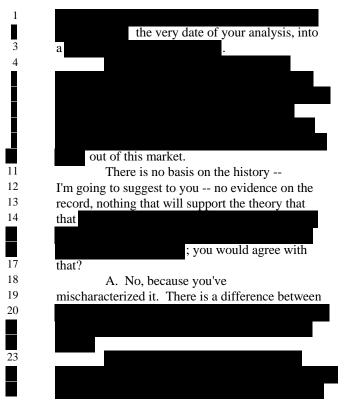
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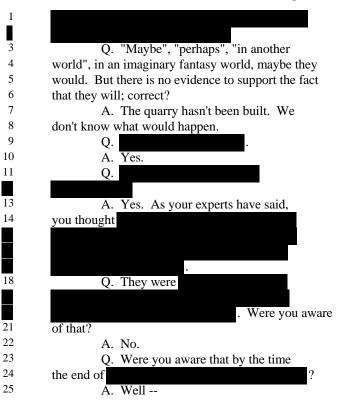
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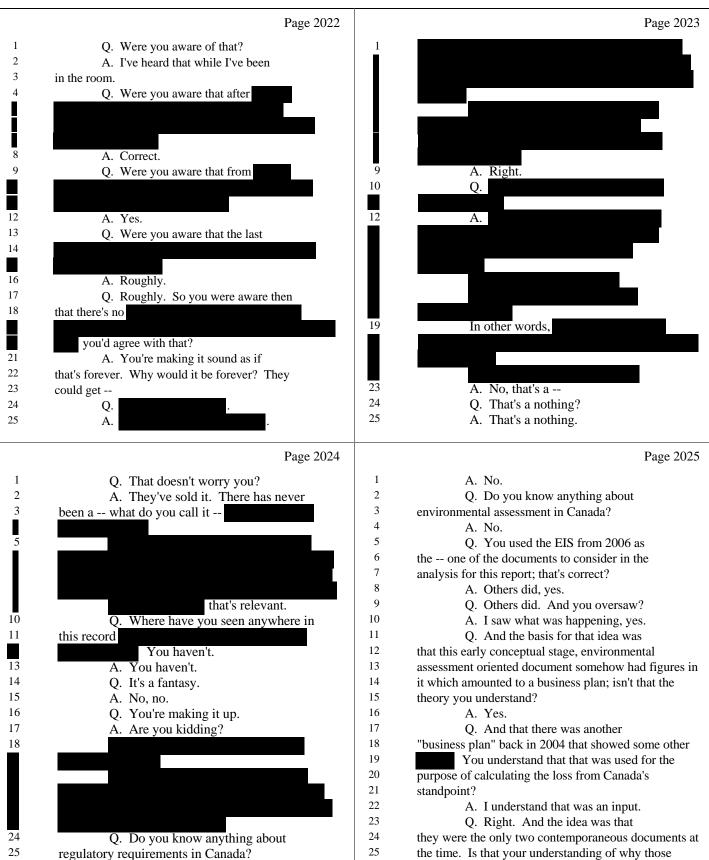
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	Page 2018		Page 2019
1 2 3 4 5 6 7 8 9 10 11	Page 2018 report." [As read] Now, what I think you are telling me now is that you can't speak to the shipping. MR. SPELLISCY: No, I object to that question. This is a letter saying Mr. Colin "and", conjunction, not "or", are able to speak to both aspects of the report and then it says "in particular". And if you go down, you will see exactly what we informed the claimants months ago was their roles. MR. NASH: We'll move on.	1 2 3 6 7 8	Page 2019 Mr. Sutherland regarding shipping in particular, into the report? A. Yes. My focus was: That is key. Q. Sure. A. Because it says there is a lot of
12 13 14 15 16 17 18 19 20 21 22 23 24	So, Mr. Chereb, did you have any knowledge of what was done to support the trucking figures? A. No. Q. Did you have any knowledge of what was done to support the operating cost figures? A. No. Q. Do you have any knowledge of why the capital cost for the various quarries were left out of the analysis? A. No. Q. Did you incorporate all of the material, then, that Mr. Sutherland gave you and	18 19 23 24	A. Absolutely. Q. And every day, that that's correct? A. Correct.
25	Mr. Ward gave you and what Mr. Power gave to	25	Q.
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Page 2029

	Page 2026		Page 2027
1	two documents were used?	1	was for internal use at Clayton. That's the reason
2	A. Yes.	2	you put it I think in the EIS you said you were
3	Q. And is your understanding that	3	going to use it internally to get a secure supply
4	those two documents were used as the sole foundation	4	for New Jersey.
5	for the numbers analysis into which your report	5	Q. Did you see the EIS? Did you
6	feeds?	6	read it yourself?
7	MR. SPELLISCY: I'm sorry, if	7	A. I heard this in testimony.
8	Mr. Nash is asking one of the experts for an overall	8	Q. Right. So you heard that that
9	conclusion on the meaning and the work of Canada's	9	was the intent, to send it all into New Jersey?
10	other experts, not his own inputs, that's an	10	A. Yes.
11	inappropriate question.	11	Q. Right. So you didn't read the
12	MR. NASH: Do you have any input	12	EIS?
13	at all into the calculated cost for the Whites Point	13	A. No.
14	Quarry in delivering a ton of aggregate from Whites	14	Q. You didn't see the references to
15	Point to New York City, including the cost of	15	New York City?
16	producing the product?	16	A. No.
17	A. No.	17	Q. Did you hear John Lizak's
18	Q. Did you take any steps to verify?	18	testimony yesterday about getting aggregate
19	A. But I thought I thought based		
20	on what your documents were, you were delivering to	20	A. Yes.
21	New Jersey.	21	Q. And you've been assuming all
22	Q. Well, there is a component going	22	along that it was going into New Jersey?
23	to New Jersey, you are quite right. Did you take	23	A. No. You stated that in the
24	that into account?	24	beginning in your documents early on, it's now New
25	A. Well, I thought the whole thing	25	York. I don't blame you. You wouldn't make money

1		1	
1	going into New Jersey, so you ship into New York	1	A. Is this which tab?
2	where profit margins are very good.	2	Q. First tab. Did you prepare that
3	Q. So you've based that on the EIS;	3	chart?
4	is that correct?	4	A. No.
5	A. No, I based it on what I've heard	5	Q. Did you
6	in this courtroom.	6	A. I had nothing to do with it.
7	Q. I see. So is it your	7	Q. Did you verify any of the
8	understanding today that the only plan for the	8	information contained in that chart?
9	Claytons was to go into New Jersey?	9	A. No.
10	A. Of course not.	10	Q. You relied upon Mr. Sutherland?
11	Q. You thought they were going	11	A. Correct.
12	A. This whole thing has been about	12	Q. Did you have any information or
13	New York. My analysis is about New York because we	13	any input into the chart which is Exhibit first
14	were instructed New York.	14	page of Exhibit R-0756?
15	Q. But my original question	15	A. No.
16	A. The plan switched.	16	Q. So your entire role, as I
17	Q. My original question was: Did you	17	understand it, was as a forecaster; is that right?
18	have any input into did you supervise? Did you	18	A. Forecaster and analyzer.
19	coordinate the inputs of the cost of taking a ton of	19	Q. And from your resumé you've
20	aggregate from Whites Point to New York City or	20	spoken at no conferences about aggregate production;
21	New Jersey?	21	correct? You spoke of one conference in Edinburgh
22	A. Let me see for about the	22	in 1998; that wasn't about aggregate, correct?
23	fourth time, no, I've had no input on the supply	23	A. Correct.
24	side.	24	Q. You've spoken at no conferences
25	Q. Can you go to page 11, please?	25	about aggregate production; correct?

## WILLIAM RALPH CLAYTON ET AL v. GOVERNMENT OF CANADA

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	Page 2030		Page 2031
1	A. Spoken at conferences	1	Mr. Power; that's correct?
2	Q. Yes.	2	A. Correct.
3	A no, I've spoken about cement.	3	Q. And you relied upon that
4	Q. Have you spoken well, I don't	4	information for the development of your analysis and
5	see that in your CV.	5	your conclusions; that's correct?
6	A. That's not a daily log of my	6	A. Correct.
7	life.	7	Q. And you relied on the information
8	Q. Well, there could be a more	8	gathered to assess the rough dynamics of the market;
9	expansive description of what your life has been. I	9	correct?
10	think you told me that everything relevant to this	10	A. Correct.
11	case, to explain your expertise and qualifications	11	Q. And in footnote 28, at the bottom
12	was contained in your CV.	12	of that page, you see that it says:
13	Didn't you tell me that about 15	13	"The estimated delivered cost to
14	minutes ago?	14	customers includes trucking
15	A. The relevant material is there.	15	delivery costs on a per ton basis
16	Q. So it doesn't say that you spoke	16	to final customers which are
17	at any aggregates production conference or any	17	assumed to be located in a
18	aggregates conference at all?	18	Brooklyn Bronx area." [As read.]
19	A. No, I haven't.	19	Did you hear the area this morning
20	Q. And you haven't spoken to any	20	from Mr. Ward that, in fact, the pinpoint that he
21	conference about aggregates markets; correct?	21	chose, I think on Google maps, was in Manhattan?
22	A. Correct.	22	A. Yes.
23	Q. And for the purpose of signing	23	Q. You would understand that it's
24	this report, you relied on the information and	24	different delivering stone in a truck to Manhattan
25	analysis provided by Mr. Sutherland, Mr. Ward and	25	than it is delivering stone by truck to Brooklyn?

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# Page 2032

1	A. Yes, I don't know if it's minor,	1
2	like, 2 or 3 cents or 12 cents; I don't know.	2
3	Q. You have no idea?	3
4	A. Correct.	4
5	Q. You have no idea if it's	5
6	different delivering a ton of stone by truck to	6
7	Manhattan or the Bronx; correct?	7
8	A. Correct.	8
9	Q. Using the "estimated delivery	9
10	cost to customer," now is that estimated delivery	10
11	cost to customers based upon information provided to	11
12	Mr. Ward and Mr. Power, to your knowledge?	12
13	A. To my knowledge, yes.	13
14	Q. (Reading):	14
15	"It allows us to compare the	15
16	relative cost of quarries that	16
17	use different modes of	17
18	transportation e.g. water, truck	18
19	and rail. The cost curve also	19
20	directly compares the estimated	20
21	cost to produce the coarse	21
22	aggregate products that Whites	22
23	Point planned to sell."[As read.]	23
24	And then here comes the words, and I	24
25	want to ask you after I read them out whether	25
		1

Page 2033

	-
1	they're in fact, why don't you read them out:
2	"The calculations in this
3	figure"
4	Can you read that sentence for us,
5	please?
6	A. (Reading):
7	"The calculations in this figure
8	are estimates and are intended to
9	provide graphical representation
10	of the rough dynamics of the
11	market, rather than represent
12	exact calculations of cost of
13	each quarry." [As read.]
14	MR. NASH: Were you aware of how
15	rough the rough dynamics of the market were?
16	A. I accepted their input.
17	Q. You accepted all of their input
18	and you based your entire analysis on their input;
19	is that correct?
20	A. Correct.
20	
21	Q. And you incorporated all of the
22 23	facts and assumptions which were provided by
	Mr. Sutherland, Mr. Ward and Mr. Power for the
24	purpose of your economic modelling analysis;
25	correct?

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	Page 2034		Page 203
1	A. Correct.	1	A. Well, I think that one addition
2	Q. Including whether the facts were	2	
3	erroneous or reliable; correct?		
4	A. I trust them, just like they		
5	trust me to look at my side.		
6	Q. So, your acceptance of those		
7	facts and assumptions was based on personal trust,	7	Q. Is that your assumption for the
8	not on any verification on your part; correct?	8	purpose of your analysis,
9	A. Correct.		
0	Q. Did you ask any questions of any		
1	of them about any of the specifics about how these	11	А.
2	rough dynamics were calculated?		
3	A. Well, we had discussions about	13	Q. That's your theory?
4	this so I could understand it and look at it, or	14	A. Yes.
5	planning sessions and analysis, we discussed it.	15	Q. Have you heard Mr. Power's
.6	Q. But as I understand your	16	evidence this morning and Mr. Dooley's evidence a
7	evidence, you didn't ask them "are they reliable?"	17	few days ago?
8	Not them personally, but the facts that they were	18	A. Well, they said some years it got
9	putting in the report?	19	as high as
20	A. When you trust somebody, you	20	
21	don't ask a question like that.	20	Q.
22	Q. Your theory is that the		
23	Q: 1 our meory is that the	23	Mr. Dower this marries said that the
		23	Mr. Power this morning said that the
	correct?	24	. Do you
	Page 2036		Page 203
1	remember that?	1	Q. So you don't know if that is the
2			
Z	A. Yes.	2	customer that ultimately purchases from the
3	<ul><li>A. Yes.</li><li>Q. And so am I correct to say that</li></ul>	2 3	customer that ultimately purchases from the purchaser?
			customer that ultimately purchases from the purchaser? A. No, I don't.
3	Q. And so am I correct to say that	3	customer that ultimately purchases from the purchaser?
3	Q. And so am I correct to say that	3 4	customer that ultimately purchases from the purchaser? A. No, I don't.
3	Q. And so am I correct to say that	3 4 5	customer that ultimately purchases from the purchaser? A. No, I don't. Q. And if you look at that chart,
3 4 7	Q. And so am I correct to say that your theory is that approximately	3 4 5 6	customer that ultimately purchases from the purchaser? A. No, I don't. Q. And if you look at that chart, did you have any input into the creation of that
3 4 7 8	Q. And so am I correct to say that your theory is that approximately A. No.	3 4 5 6 7	customer that ultimately purchases from the purchaser? A. No, I don't. Q. And if you look at that chart, did you have any input into the creation of that chart?
3 4 7 8 9	Q. And so am I correct to say that your theory is that approximately A. No. MR. SPELLISCY: I don't want to	3 4 5 6 7 8	customer that ultimately purchases from the purchaser? A. No, I don't. Q. And if you look at that chart, did you have any input into the creation of that chart? A. No, I did not.
3 4 7 8 9 0	Q. And so am I correct to say that your theory is that approximately A. No. MR. SPELLISCY: I don't want to interrupt. Our LiveNote is frozen on this side.	3 4 5 6 7 8 9	customer that ultimately purchases from the purchaser? A. No, I don't. Q. And if you look at that chart, did you have any input into the creation of that chart? A. No, I did not. Q. You relied upon the chart for
3 4 7 8 9 0 1	Q. And so am I correct to say that your theory is that approximately A. No. MR. SPELLISCY: I don't want to interrupt. Our LiveNote is frozen on this side. Reporter's Note: Technical issues resolved.	3 4 5 6 7 8 9 10	customer that ultimately purchases from the purchaser? A. No, I don't. Q. And if you look at that chart, did you have any input into the creation of that chart? A. No, I did not. Q. You relied upon the chart for your forecasting; correct?
3 4 7 8 9 0 1 2	Q. And so am I correct to say that your theory is that approximately A. No. MR. SPELLISCY: I don't want to interrupt. Our LiveNote is frozen on this side. Reporter's Note: Technical issues resolved. PRESIDING ARBITRATOR: Mr. Nash, we can continue.	3 4 5 6 7 8 9 10 11	customer that ultimately purchases from the purchaser? A. No, I don't. Q. And if you look at that chart, did you have any input into the creation of that chart? A. No, I did not. Q. You relied upon the chart for your forecasting; correct? A. Correct.
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3 4 7 8 9 0 1 2 3 4	Q. And so am I correct to say that your theory is that approximately A. No. MR. SPELLISCY: I don't want to interrupt. Our LiveNote is frozen on this side. Reporter's Note: Technical issues resolved. PRESIDING ARBITRATOR: Mr. Nash, we can continue. MR. NASH: Thank you. Could you	3 4 5 6 7 8 9 10 11 12 13	customer that ultimately purchases from the purchaser? A. No, I don't. Q. And if you look at that chart, did you have any input into the creation of that chart? A. No, I did not. Q. You relied upon the chart for your forecasting; correct? A. Correct. Q. And if you go over to the next page of the chart, New York City, figure 7b, "New
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3 4 7 8 9 0 1 2 3 4 5 6 7	Q. And so am I correct to say that your theory is that approximately A. No. MR. SPELLISCY: I don't want to interrupt. Our LiveNote is frozen on this side. Reporter's Note: Technical issues resolved. PRESIDING ARBITRATOR: Mr. Nash, we can continue. MR. NASH: Thank you. Could you please turn to paragraph 19 of tab 1? A. It starts off "The EIS stated"?	3 4 5 6 7 8 9 10 11 12 13 14 15 16	customer that ultimately purchases from the purchaser? A. No, I don't. Q. And if you look at that chart, did you have any input into the creation of that chart? A. No, I did not. Q. You relied upon the chart for your forecasting; correct? A. Correct. Q. And if you go over to the next page of the chart, New York City, figure 7b, "New York City Water Borne Suppliers Only CIF Cost Curve and it then says "Draft"? A. Yes. Q. Is it a draft report?
3 4 7 8 9 0 1 2 3 4 5 6 7 8	Q. And so am I correct to say that your theory is that approximately A. No. MR. SPELLISCY: I don't want to interrupt. Our LiveNote is frozen on this side. Reporter's Note: Technical issues resolved. PRESIDING ARBITRATOR: Mr. Nash, we can continue. MR. NASH: Thank you. Could you please turn to paragraph 19 of tab 1? A. It starts off "The EIS stated"? Q. I said paragraph 19. I'm sorry. Page 19. A. Oh. Yes.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	customer that ultimately purchases from the purchaser? A. No, I don't. Q. And if you look at that chart, did you have any input into the creation of that chart? A. No, I did not. Q. You relied upon the chart for your forecasting; correct? A. Correct. Q. And if you go over to the next page of the chart, New York City, figure 7b, "New York City Water Borne Suppliers Only CIF Cost Curve and it then says "Draft"? A. Yes. Q. Is it a draft report? A. That's what that says.
3 4 7 8 9 0 1 2 3 4 5 6 7 8 9	Q. And so am I correct to say that your theory is that approximately A. No. MR. SPELLISCY: I don't want to interrupt. Our LiveNote is frozen on this side. Reportet's Note: Technical issues resolved. PRESIDING ARBITRATOR: Mr. Nash, we can continue. MR. NASH: Thank you. Could you please turn to paragraph 19 of tab 1? A. It starts off "The EIS stated"? Q. I said paragraph 19. I'm sorry. Page 19. A. Oh. Yes. Q. Figure 7a on that page: "NYC	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	customer that ultimately purchases from the purchaser? A. No, I don't. Q. And if you look at that chart, did you have any input into the creation of that chart? A. No, I did not. Q. You relied upon the chart for your forecasting; correct? A. Correct. Q. And if you go over to the next page of the chart, New York City, figure 7b, "New York City Water Borne Suppliers Only CIF Cost Curve and it then says "Draft"? A. Yes. Q. Is it a draft report? A. That's what that says. Q. Well, you signed it. Was it a
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3 4 7 8 9 0 1 2 3 4 5 6 7 8 9 00 1 2 3 4 5 6 7 8 9 00 1 2 3 4 5 6 7 8 9 00 1 2 3 4 5 6 7 8 9 00 1 1 2 3 4 5 6 7 8 9 00 1 1 2 3 4 5 6 7 8 9 00 1 1 2 3 4 5 6 7 8 9 00 1 1 2 3 4 5 8 9 0 0 1 1 2 3 4 5 8 9 0 0 1 1 2 3 4 5 8 9 0 0 1 1 2 3 4 5 8 9 0 0 1 1 2 3 4 5 8 9 0 0 1 1 2 3 4 5 8 9 0 0 1 1 2 3 4 5 8 9 9 0 0 1 1 2 3 4 5 8 9 9 0 0 1 1 2 3 4 5 8 9 9 0 0 1 1 2 3 4 5 8 9 9 0 0 1 1 2 3 4 5 8 9 9 0 0 1 1 2 3 4 5 7 8 9 9 0 1 1 2 3 4 5 7 8 9 9 0 0 1 1 2 3 4 5 8 9 9 0 0 1 1 2 3 4 5 8 9 9 0 0 1 1 2 3 4 5 8 9 9 0 0 1 1 2 3 4 5 7 8 9 9 0 0 1 1 2 3 4 5 8 9 9 0 0 1 1 2 3 4 5 8 9 9 0 0 1 1 2 3 4 5 5 8 9 9 0 0 1 1 2 3 4 5 8 9 9 9 0 1 1 1 2 3 4 5 1 1 2 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Q. And so am I correct to say that your theory is that approximately A. No. MR. SPELLISCY: I don't want to interrupt. Our LiveNote is frozen on this side. Reporter's Note: Technical issues resolved. PRESIDING ARBITRATOR: Mr. Nash, we can continue. MR. NASH: Thank you. Could you please turn to paragraph 19 of tab 1? A. It starts off "The EIS stated"? Q. I said paragraph 19. I'm sorry. Page 19. A. Oh. Yes. Q. Figure 7a on that page: "NYC Aggregates - Supplier Cost Curve Delivered to Customers"; do you see that?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	customer that ultimately purchases from the purchaser? A. No, I don't. Q. And if you look at that chart, did you have any input into the creation of that chart? A. No, I did not. Q. You relied upon the chart for your forecasting; correct? A. Correct. Q. And if you go over to the next page of the chart, New York City, figure 7b, "New York City Water Borne Suppliers Only CIF Cost Curve and it then says "Draft"? A. Yes. Q. Is it a draft report? A. That's what that says. Q. Well, you signed it. Was it a draft when you signed it? A. Yes, I did sign it.
3 4 7 8 9 0 1 2 3 4 5 6 7 8 9 0 0 1 2 3 4 5 6 7 8 9 0 0 1 2 3 4 5 6 7 8 9 0 0 1 2 3 4 5 6 7 8 9 0 0 1 2 3 4 5 6 7 8 9 0 0 1 2 3 4 5 6 9 0 0 1 2 3 4 5 6 7 8 9 0 0 1 2 3 4 5 6 7 8 9 0 0 1 2 3 4 5 8 9 0 0 1 2 3 4 5 8 9 0 0 1 2 3 4 5 8 9 0 0 1 2 3 4 5 8 9 0 0 1 2 3 4 5 8 9 0 0 1 2 3 4 5 8 9 0 0 1 2 3 4 5 8 9 0 0 1 2 3 4 5 8 9 0 0 1 2 3 4 5 8 9 0 0 1 2 3 4 5 8 9 9 0 0 1 2 3 4 5 8 9 9 0 0 1 2 3 4 5 8 9 9 0 1 2 3 4 5 8 9 9 0 0 1 2 3 4 5 8 9 9 0 0 1 2 3 7 8 9 9 0 0 1 2 3 4 5 7 8 9 9 0 0 1 2 3 4 5 7 8 9 9 0 0 1 1 2 3 4 5 8 9 9 0 0 1 1 2 2 3 4 5 7 8 9 9 0 0 1 2 3 4 5 7 8 9 9 0 0 1 2 3 3 4 5 5 7 8 9 9 0 0 1 2 3 8 9 9 0 0 1 1 2 3 7 8 9 9 0 0 1 2 3 1 2 3 8 9 9 0 0 1 1 2 2 3 1 2 8 9 9 1 2 2 8 9 9 9 1 1 2 1 2 1 2 1 8 9 9 1 2 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1	Q. And so am I correct to say that your theory is that approximately A. No. MR. SPELLISCY: I don't want to interrupt. Our LiveNote is frozen on this side. Reporter's Note: Technical issues resolved. PRESIDING ARBITRATOR: Mr. Nash, we can continue. MR. NASH: Thank you. Could you please turn to paragraph 19 of tab 1? A. It starts off "The EIS stated"? Q. I said paragraph 19. I'm sorry. Page 19. A. Oh. Yes. Q. Figure 7a on that page: "NYC Aggregates - Supplier Cost Curve Delivered to Customers"; do you see that? A. Yes, I do.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	customer that ultimately purchases from the purchaser? A. No, I don't. Q. And if you look at that chart, did you have any input into the creation of that chart? A. No, I did not. Q. You relied upon the chart for your forecasting; correct? A. Correct. Q. And if you go over to the next page of the chart, New York City, figure 7b, "New York City Water Borne Suppliers Only CIF Cost Curve and it then says "Draft"? A. Yes. Q. Is it a draft report? A. That's what that says. Q. Well, you signed it. Was it a draft when you signed it? A. Yes, I did sign it. Q. Was it a draft when you signed
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### WILLIAM RALPH CLAYTON ET AL v. GOVERNMENT OF CANADA

	Page 2038		Page 2039
1	Q. Okay. And the figures the	1	Q. Did you have any input into that
2	chart there shows CIF cost Brooklyn Navy Yard for	2	chart?
3	coarse aggregate; did you have any input into that	3	A. I created it.
4	chart?	4	Q. You created that chart.
5	A. No.	5	So that chart goes to 2008; do you
6	Q. Did you rely on it? Sorry, did	6	see that?
7	you say "no"?	7	A. Yes, I do.
8	A. I didn't get the question.	8	Q. And there's a note there with the
9	Q. Oh, I'm sorry. Did you rely on	9	blue dotted line "6-Aug"; what does that mean?
10	that chart for your analysis?	10	A. Oh, that was done in August of
11	A. Yes.	11	2006.
12	Q. Okay. If you could go to page	12	Q. That chart was created in 2006?
13	11, please?	13	A. 2006.
14	A. Page 11.	14	Q. Was that chart created for the
15	Q. Page 11, figure 2.	15	purpose of this report?
16	A. Yes.	16	A. The analysis was done in
17	Q. Did you have any input into that	17	August 2006 and the chart, you know, we pulled it
18	chart.	18	out, it was done long before this whole thing
19	A. No.	19	started. I just created it from numbers from a
20	Q. Did you rely on it?	20	prior forecast.
21	A. Yes.	21	Q. So, that's a forecast of yours in
22	Q. Could you go to page 22, please?	22	2006 for the years 2006, 2007, 2008?
23	A. Yes.	23	A. Correct.
24	Q. Figure 8a?	24	Q. And it states above, 'As can be
25	A. Yes.	25	seen", and I'm four lines down paragraph 66:

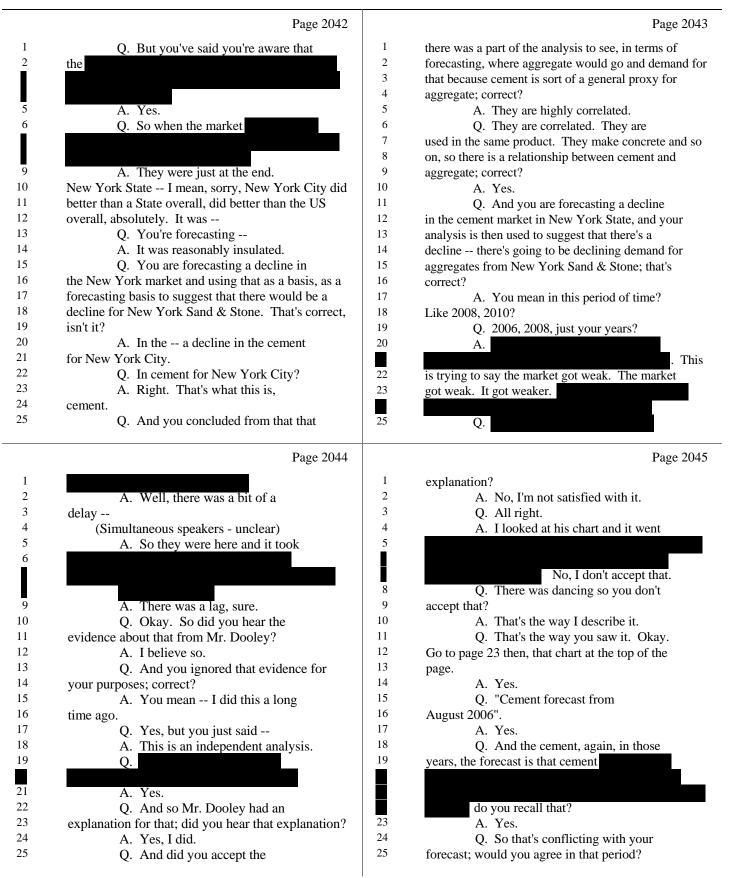
## Page 2040

1	" our forecast correctly	1	are a whole lot of things that make it more
2	anticipated declining market	2	difficult to get into New York City than it does in
3	demand for the 2006-2008 period	3	other parts of the State and I'm going to suggest to
4	when Bilcon was anticipating	4	you that one of them, those difficulties, are what
5	building volume	5	makes New York City such a lucrative market for
6	through a potential new aggregate	6	aggregate. You would agree with that?
7	source in Nova Scotia."	7	A. Yes. Do you understand the
8	Now that's for the entire	8	purpose of this chart?
9	New York State, isn't it?	9	Q. Well, I think the purpose of this
10	A. This chart is, yes.	10	chart is to show that, as you see in the sentence
11	Q. So New York State is being used	11	above:
12	as a proxy for New York City?	12	"As can be seen, our forecast
13	A. It's been used to understand what	13	correctly anticipated declining
14	was happening in the market.	14	market demand for the 2006-2008
15	Q. In the market generally?	15	period"
16	A. In the New York State market and	16	A. That was pretty darn good.
17	New York City is about 60 per cent of	17	Q. Yes.
18	New York State.	18	A. Because things were awfully good
19	Q. But New York City is in a	19	in 2006 when we were doing it.
20	different position geographically than the rest of	20	Q. Right.
21	New York State; isn't that correct?	21	A. And Dodge and New York
22	A. It is part of New York State.	22	Construction Board, they weren't forecasting this.
23	Q. It is part of New York State, but	23	Q. Right. They weren't forecasting
24	it is very difficult to get access to. There are	24	the declining market demand?
25	tolls; there are weight restriction on trucks; there	25	A. Correct.
		1	

Page 2041

chart is to	show that, as you see in the sentence
above:	
	"As can be seen, our forecast
	correctly anticipated declining
	market demand for the 2006-2008
	period"
A	A. That was pretty darn good.
	D. Yes.
A	A. Because things were awfully good
	hen we were doing it.
	Q. Right.
	A. And Dodge and New York
	on Board thay warman't forecasting th

- Construction Board, they weren't forecasting this.
- Q. Right. They weren't forecasting
- the declining market demand?
  - A. Correct.



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	Page 2046	
1	A. Yes, yes.	1
2	Q. And then at the bottom, paragraph	2
3	68:	3
4	"Following a similar trend,	4
5	figure 9 shows that construction	5
6	contracts were also declining	6
7	from 2008 to 2011"	
8	Do you see that?	8
9	A. Yes. And I want to add one thing	9
10	about the New York Sand & Stone. That's a	10
11	particular seller.	11
		12
		13
14	Q. Yes.	14
15	A. They have varied greatly from	15
16	year to year so that's not that's not the market.	16
17	That's an individual company.	17
18	Q. Your point here in paragraph 68:	18
19	"Following a similar trend,	19
20	figure 9 shows that construction	20
21	contracts were also declining	21
22	from 2008 to 2011"	22
23	A. Yes.	23
24	Q. Now, if we look at the	24
25	, that's the red line;	25
	Page 2048	

## correct? A. Correct. Q. In New York City; correct? A. Correct. Q. In the boroughs of New York. And it shows that And you see it's fairly stable. A. They are indexed to 100 in 2007. Q. Right. And then there is a slight decline in 2011; do you see that? A. Yes. Q. And then it starts rocketing up --A. Yes. Q. -- to just under 190, almost double? A. In a great recovery. Q. In a great recovery. It's not what you would call a declining market, is it? A. Excuse me, I said declining from 2008 to 2011 and it declined about 10 per cent. Q. About 10 per cent in the middle of what everybody knows was the worst recession

#### Page 2048

	e	
1	known since 1929, it declined about 10 per cent,	1
2	went up in 2012 by perhaps another 10 per cent and	2
3	then it rocketed up from 2012 to 2017; that's what	3
4	that chart shows, right?	4
5	A. When was the peak? 2015.	5
6	Q. Well, I'm	6
7	A. It's declining.	7
8	Q. You say it's still declining?	8
9	A. No, no, no. We all see the	9
10	curve.	10
11	Q. Yes.	11
12	A. And we both agree, it was a great	12
13	recovery.	13
14	Q. It's almost twice in 2017 than it	14
15	was back in 2011.	15
16	A. It's a great recovery.	16
17	Q. And cement and aggregate are	17
18	correlated; right?	18
19	A. Yes.	19
20	Q. You have increased demand from	20
21	, you would expect	21
22	you'd get increased demand for	22
23	A. Yes, it has gone up.	23
24	Q.	24
		25

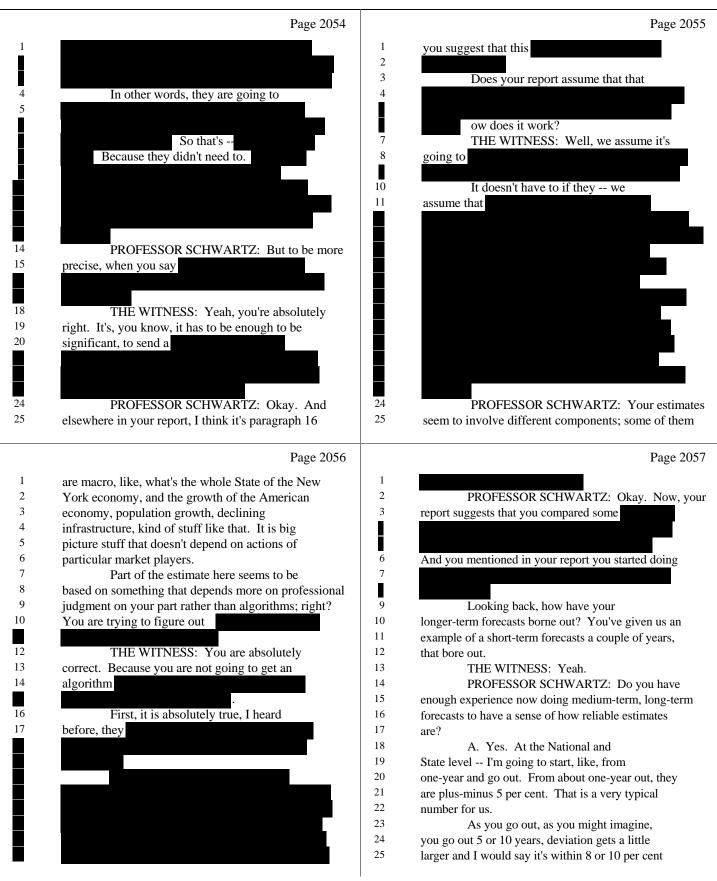
A. Yes.
Q. Could you turn, please, to tab 2,
in your rejoinder report, at page 9, paragraph 16.
Sorry. If you go to the bottom of paragraph 16.
You say:
"As such, while we cannot be a
hundred per cent certain, we are
•
highly confident that our cost
estimates are within pennies per
ton of what they were in 2007."
[As read.]
A. Yes, I see that.
Q. Did you write those words?
A. No.
Q. Did Mr. Sutherland write them?
A. Correct.
Q. Did you endorse them?
A. I didn't question them.
MR. NASH: Thank you, Mr. Chereb,
those are my questions.
• •
PRESIDING ARBITRATOR: Thank you,
Mr. Nash.
MR. SPELLISCY: We will request just
a minute here to organize our thoughts to see if we

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1	MR. NASH: I just have one more	1	
2	question, if I can.		
3	PRESIDING ARBITRATOR: That's okay.		
4	But you have an additional question?	4	A. I wasn't aware of that.
5	MR. NASH: I have one more question.	5	MR. NASH: Okay. Thank you.
6	PRESIDING ARBITRATOR: Okay. But	6	PRESIDING ARBITRATOR: Okay. Now we
7	just we need the attention of the Canada. Okay.	7	can go to re-direct.
8	Mr. Nash has one additional question	8	<b>RE-EXAMINATION BY MS. ZEMAN:</b>
9	and then you are going to re-direct, Ms. Zeman?	9	MS. ZEMAN: Dr. Chereb.
10	MS. ZEMAN: Yes.	10	A. Yes.
11	PRESIDING ARBITRATOR: Okay, all	11	Q. Mr. Nash took you to page 23 of
12	right.	12	your first report if we could turn there.
13	MR. NASH: You describe in report	13	A. Yes.
14	number 1 that	14	Q. He spent some time talking about
16	; do	15	figure 9 here. And asked you some questions about
16	you recall that?	16	the wonderful recovery that happened after the
17	A. I recall that.	17	recession.
18 19	Q. Were they your words or were they	18	What are your views about what will
20	Mr. Sutherland's? A. Mr. Sutherland's.	19 20	happen after?
20	Q. Did you endorse them?	20	A. Well, as you can see, up through
21	A. I accepted them.	21	
22	Q. When you accepted them, did you		
23	realize that		
	Page 2052		Page 2053
1		1	about the confidence that we can place in various
		2	estimates.
		3	So I'm looking at paragraph 98 of
		4	your report.
		5	THE WITNESS: Yes.
	that's what I think.	6	PROFESSOR SCHWARTZ: Similar question
/	Q. So, in this context Mr. Nash also	7	I asked the previous witness. When the report says
8	asked you about the overall growth in the market.	9	estimate is that market would drop
9 10	Can you tell us what the compound	10	, what degree of confidence do we have in that
10		10	have in that
12	А.		What sort of confidence?
12	Δ.	13	THE WITNESS: The reason I came up
		14	with
17	MS. ZEMAN: Thanks.		
18	PRESIDING ARBITRATOR: Okay.		
19	Mr. Nash? No?		
20	MR. NASH: I have nothing arising.	20	And then it was essential to find
21	QUESTIONS FROM THE ARBITRAL TRIBUNAL:	21	out, well,
22	PROFESSOR SCHWARTZ: Good afternoon,		So I went
23	sir. I think you've been here throughout, so	23	and looked at these
24	however inarticulately I may be putting the	24	was if you dropped it , you could
25	questions, you know I have this abiding concern		

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	6		6
1	at the State and National level.	1	THE WITNESS: Yes.
2	If you get down to individual	2	PROFESSOR SCHWARTZ: So I just wanted
3	counties, you get more variation.	3	to, I think perhaps you were speaking colourfully.
4	PROFESSOR SCHWARTZ: And longer-term	4	When you said your estimates were pure speculation,
5	forecasts than that, do you do those? Do you have	5	were there certain you were asked as well, this
6	any experience with that?	6	other estimate is you are speculating and you said
7	THE WITNESS: I've done 25-year	7	yes, but the other side is speculating.
8	forecasts, but that is kind of uncommon.	8	I think you used the phrase "pure
9	In today's world, with spreadsheets,	9	speculation" maybe.
10	you can go out 50 years. You can go out 50 years.	10	THE WITNESS: Well, we have two
11	And that's what I call kind of false precision. We	11	stacks of papers; our papers and their papers. And
12	can put decimal places to them, but typically it is	12	we put our best experience and knowledge into it and
13	a 5 or 10-year forecast.	13	try to come up with you know, my report would
14	PROFESSOR SCHWARTZ: And again, I	14	look the same whether I was hired by Bilcon or
15	mentioned it with a previous witness, I don't have a	15	Canada. It's just my opinion.
16	mathematical intuition here.	16	PROFESSOR SCHWARTZ: So I'm
17	This is a situation where the	17	understanding, by pure speculation, you didn't mean
18	predictions get less reliable over a long course of	18	to say that obviously you are sending statements
19	time. I can imagine certain circumstances where you	19	of account when you do this; you don't send it and
20	say short-term predictions are actually less	20	then say yeah, but this is all pure speculation.
21	reliable because there is noise, but we can get	21	You're saying this is your best professional
22	long-term projections that are fairly reliable. Is	22	judgment?
23	it your sense that as you go out more and more, the	23	THE WITNESS: Yes.
24	predictions get less and less; you have less and	24	PROFESSOR SCHWARTZ: Okay, thank you
25	less confidence in a projection?	25	very much.

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		1	
1	PRESIDING ARBITRATOR: Any further	1	statements?
2	questions from parties? Okay. Thank you. So that	2	DR. PULKOWSK
3	brings an end to your witness examination. Thank	3	both parties and both is the
4	you very much.	4	me see. Let me do a proper
5	THE WITNESS: Thank you.	5	Both days togethe
6	PRESIDING ARBITRATOR: Then my	6	MR. SPELLISCY
7	question would be, before we break and see each	7	DR. PULKOWSK
8	other again on Monday, are there any maybe it	8	together on the both days.
9	would be good to have a time check.	9	I think the questio
10	DR. PULKOWSKI: I would be very happy	10	overall budget?
11	to provide that, Mr. President, and perhaps	11	To be more specif
12	relatedly, based on the time remaining we may	12	claimants' side, 3 hours 6 m
13	consider the schedule for Monday because I don't	13	respondent's side 3 hours m
14	expect we will have to be here at 8:30 again, in	14	and 10 minutes left.
15	fact.	15	PRESIDING ARE
16	So on the claimants' side, the	16	DR. PULKOWSK
17	claimants have used 17 hours and 54 minutes.	17	together.
18	And the respondent has used 14 hours	18	PRESIDING ARE
19	and 50, 5-0 minutes.	19	that looks like we could rela
20	PRESIDING ARBITRATOR: So, that means	20	PROFESSOR Mc
21	how much time would they have left?	21	the parties need on Monday
22	PROFESSOR McRAE: How much time do we	22	PRESIDING ARE
23	need on Monday?	23	any estimate of how much t
24	PRESIDING ARBITRATOR: So left for	24	on Monday? Mr. Nash?
25	both Monday quantum and Wednesday closing	25	MR. NASH: My
			-

statements?
DR. PULKOWSKI: Close to 10 hours for
both parties and both is that about right? Let
me see. Let me do a proper calculation.
Both days together.
MR. SPELLISCY: Each party?
DR. PULKOWSKI: No, both parties
together on the both days.
I think the question was: What's the
overall budget?
To be more specific, on the
claimants' side, 3 hours 6 minutes left; and the
respondent's side 3 hours more, essentially, 6 hours
and 10 minutes left.
PRESIDING ARBITRATOR: For both?
DR. PULKOWSKI: For both exercises
together.
PRESIDING ARBITRATOR: That sounds
that looks like we could relax at least the morning.
PROFESSOR McRAE: How much time do
the parties need on Monday?
PRESIDING ARBITRATOR: Do you have
any estimate of how much time you are going to spend
on Monday? Mr. Nash?
MR. NASH: My estimate?

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1	PRESIDING ARBITRATOR: Estimates.	1	DR. PULKOWSKI: I suppose, since the
2	MR. NASH: About an hour on Monday	2	investors experts will be cross-examined first so
3	and about two hours on Wednesday.	3	that would probably presumably be the bigger package
4	PRESIDING ARBITRATOR: And Mr.	4	in terms of time. We should probably have a normal
5	Spelliscy?	5	morning without an excessively early start so that
6	MR. SPELLISCY: My best professional	6	we get through by lunch time.
7	judgment., estimate, not speculation, which is a	7	PRESIDING ARBITRATOR: What do we
8	little I don't have an algorithm for this. I	8	meaning by "normal morning"?
9	would imagine that we're well, we also have the	9	MR. SPELLISCY: I'm sure if we
10	expert presentations by our own quantum experts	10	started at 9:30, which is what the original hearing
11	which are included in that half hour or included in	11	time was scheduled to start, with our total of three
12	the time remaining so I would imagine half an hour	12	hours on Monday the claimants have said one hour,
13	for our expert presentation under the procedural	13	then I would imagine that that's fine.
14	order. I would imagine we will probably use the	14	PRESIDING ARBITRATOR: 9:30.
15	remaining two, just over two hours for the	15	MR. SPELLISCY: 9:30 would be plenty
16	cross-examination of Mr. Rosen and three hours for	16	of time.
17	our closing arguments on	17	PRESIDING ARBITRATOR: We are going
18	PRESIDING ARBITRATOR: Sorry, and	18	to see each other again, relaxed, on Monday at
19	three?	19	9:30 in another room; right? Do we know the wine?
20	MR. SPELLISCY: Three hours for our	20	DR. PULKOWSKI: It will be Cabernet
21	closing arguments on Wednesday. So I would expect,	21	for the tribunal and Shiraz for the parties because
22	like we have to date, to be right on track to use	22	there are two doors to the same room.
23	our entire 21 hours.	23	PRESIDING ARBITRATOR: Okay, well
24	PRESIDING ARBITRATOR: I think on	24	DR. PULKOWSKI: It will be an
25	Monday we could consider to meet at like	25	interesting blend. (laughter)

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1	PRESIDING ARBITRATOR: I hope you	1	an extension of oral submissions or even in the form
2	found time to test that already a bit before we see	2	of post-hearing briefs, as a supplement or a
3	each other again, cabernet. (laughter)	3	replacement for oral submissions.
4	MR. SCOTT LITTLE: Judge Simma	4	We just want to put that down on the
5	PRESIDING ARBITRATOR: Yes.	5	record now.
6	MR. SCOTT LITTLE: I just wanted to	6	PRESIDING ARBITRATOR: Okay. That
7	put a few things down. First off, just in light of	7	means that you are against post-hearing briefs?
8	the time remaining today and the global time that	8	MR. SCOTT LITTLE: We are, yes.
9	remains for each of the parties, we just want to	9	PRESIDING ARBITRATOR: I think there
10	make note of the fact that we really don't see a	10	was also an agreement at some stage that
11	reason why the complete evidentiary record could not	11	post-hearing briefs I think it was at the end of
12	have been completed today.	12	the jurisdiction liability phase.
13	So, I'm not asking that, like,	13	MR. SCOTT LITTLE: I believe we had
14	changes have been made, expenses have been incurred,	14	annotated transcripts at the end of the jurisdiction
15	but I just wanted to make it clear our concern over	15	liability phase, but we just want to lay down the
16	the diversion from the original schedule, and in	16	marker now that we are not consenting to
17	case I wasn't clear enough yesterday to make that	17	post-hearing briefs being a supplement or a
18	request that there are cost consequences to the	18	replacement for oral closing submissions.
19	change that has happened.	19	PRESIDING ARBITRATOR: All right, so
20	In light of the fact that the time	20	that is clear.
21	that the claimants do have left to conduct their	21	Let me just say with regard to the
22	remaining cross-examinations, and to present their	22	this was a decision made by the tribunal, the
23	closing submissions, we also want to make clear that	23	decision to spread out and change the schedule of
24	we don't consent to an extension of any time or the	24	the rest of the exercise.
25	submissions that can be made in any form, so be it	25	That decision was based, first, on

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1	some input by the parties and, secondly, of course,	1	hear Mr. Little putting down a marker, as he says, I
2	we are a bit in a situation like Mr. Chereb and	2	don't think it's necessary.
3	others, that on the basis of the experience with the	3	PRESIDING ARBITRATOR: I don't
4	duration of hearings, particularly the duration of	4	understand.
5	re-direct, et cetera, I think we could not foresee	5	MR. NASH: I don't think it's
6	that the remaining exercise would go so efficiently	6	necessary; I think we are all on the same page.
7	and take relatively much less time.	7	PRESIDING ARBITRATOR: Okay. All
8	So, for me, the expectation yesterday	8	right.
9	was that we could not possibly deal with three	9	MR. SCOTT LITTLE: Thank you,
10	more experts and then have both the quantum	10	Mr. Nash.
11	exercises on the same day.	11	PRESIDING ARBITRATOR: Thanks to both
12	Let me just say as far as the	12	of you. So we will break and see each other again
13	tribunal is concerned, for the record also.	13	on Monday in Cabernet and Shiraz at 9:30.
14	MR. SCOTT LITTLE: That's fine.	14	Whereupon proceedings adjourned at 1:14 p.m., to
15	Thank you. My part was more about taking this with	15	be resumed Monday, February 26, 2018 at 9:30 a.m.
16	a view to the global time that is left for the	16	
17	parties. We think it was more than doable to have	17	
18	the evidentiary record closed today.	18	
19	PRESIDING ARBITRATOR: Okay. Yes,	19	
20	Mr. Nash?	20	
21	MR. NASH: I think Mr. Little's	21	
22	concerns as expressed are without foundation in this	22	
23	sense: That we aren't going to suggest that there	23	
24	be any extra time, and we're not going to suggest	24	
25	that there be closing post-hearing arguments. So, I	25	

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