OFFICE OF ZONING AND ADMIN	ISTRATIVE HEARINGS
FOR MONTGOMERY	COUNTY
	-x :
PETITION OF COSTCO WHOLESALE CORPORATION	: Case No. S-2863 : OZAH No. 13-12
	: -x

A hearing in the above-entitled matter was held on May 29, 2014, commencing at 9:42 a.m., at the Office of Zoning and Administrative Hearings, 100 Maryland Avenue, 2nd Floor Council Hearing Room, Rockville, Maryland 20850 before:

Martin L. Grossman

Hearing Examiner

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	APPEARANCES		1	PROCEEDINGS
			2	MR. GROSSMAN: This is the 36th day of a public
For the	Applicant:		3	hearing in the matter of Costco Wholesale Corporation, Boa
Patricia	A Harris, Esq.		4	of Appeals No. S-2863, OZAH No. 13-12, petition for a
	· _		5	special exception pursuant to Zoning Ordinance Section
	ecke, Esq.		6	59-G-2.06 to allow petitioner to construct and operate an
Lerch, H	Early & Brewer, Chartered		7	automobile filling station which would include 16 pumps.
3 Bethes	sda Metro Center, Suite 460			The subject site is located at 11160 Veirs Mill Road, Silve
Bethesda	a, Maryland 20814			Spring, Maryland, Lot N, 631 Wheaton Plaza, Parcel 10, als
				known as Westfield Wheaton Mall, and it is zoned C-2.
For Kens	sington Heights Civic Association:		11	The hearing was begun on April 26, 2013, and the
	Rosenfeld, Esq.			next session will be for oral arguments because, hopefully
	· _			this will be the last evidentiary session, oral closing
	Office of Michele Rosenfeld, LLC			arguments. I'm going to propose and we'll discuss it later that they take place on August 12, 2014, here in
11913 Am	mbleside Drive			the second floor hearing room of the COB, the Council Office
Potomac,	, Maryland 20854			Building, at 9:30 a.m., and we'll discuss the dates for the
				briefs shortly.
	CONTENTS		19	This hearing is conducted on behalf of the Board
Surrebut Witnesse		Recross	20	
			21	Examiner, which means I will take evidence and write a
-	Goecke 40		22	report and recommendation to the Board of Appeals which w
	Rosenfeld 112 Silverman	153	23	make the decision in this case. Will the parties identify
			24	themselves, please?
			25	MS. HARRIS: Good morning. Pat Harris on behal
		Page 3		Page
	EXHIBITS	-	1	of Costco.
Exhibit N	o. Marked	l/Received	2	MR. GROSSMAN: Ms. Harris.
353(a)	Summary relating to PowerPoint	163	3	MR. GOECKE: Good morning. Mike Goecke for
	presentation in Exhibit 353		4	Costco.
353(b)	Narrative full report relating to PowerPoint presentation in	169	5	MR. GROSSMAN: Mr. Goecke.
	Exhibit 353		6	MS. CORDRY: Good morning. Karen Cordry for
431(c)	Corrected version of 431(b)	188	7	Kensington Heights.
	Fobruary 2012 regearch report on			
606(c)	February 2012 research report on	192	8	MR. GROSSMAN: Okay.
606(c)	allergic inflammation in the human lower respiratory tract affected		8 9	MS. ROSENFELD: Good morning. Michele Rosenfe
	allergic inflammation in the human lower respiratory tract affected by exposure to diesel exhaust	L	8 9	MS. ROSENFELD: Good morning. Michele Rosenfe with Kensington Heights.
	allergic inflammation in the human lower respiratory tract affected		8 9 10 11	MS. ROSENFELD: Good morning. Michele Rosenfe with Kensington Heights. MR. GROSSMAN: Good morning.
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	Page 6		Page 8
1	MS. ROSENFELD: I can try.	1	by the parties and there will be no further witnesses after
2	MR. GROSSMAN: All right. Hopefully, he didn't		Dr. Cole?
	did somebody speak to him to make sure that he remembers	3	
	that	4	
5	MS. ROSENFELD: Oh, he	5	
6	MR. GROSSMAN: He knows? Okay.	6	
7	MR. SILVERMAN: He's very well aware, very well	7	
8	aware of it.	8	C C
9	MR. GROSSMAN: All right.	9	doesn't agree.
10	MS. ROSENFELD: Yes. We were in communication by	10	MR. SILVERMAN: We do not agree.
11	e-mail.	11	-
12	MR. GROSSMAN: All right.	12	
13	MS. ROSENFELD: Yes.	13	MR. GROSSMAN: okay. So let me hear from the
14	MS. CORDRY: This morning.	14	Coalition on the point.
15	MS. ROSENFELD: This morning, very early.	15	MR. SILVERMAN: Yes. I think, you know, they
16	MR. GROSSMAN: All right. Preliminary matters?	16	chose not to put let's talk about the medical stuff first
17	MS. CORDRY: And he does have to come from the far		and then the air pollution stuff.
18	side of Washington, diametrically opposed to where we are	18	
19	MR. GROSSMAN: Okay.	19	now, is the medical.
20	MS. CORDRY: around the circle. So	20	MR. SILVERMAN: The medical, okay, yes.
21	MS. ROSENFELD: He's coming from the Upper	21	MR. GROSSMAN: Before I hear from you on that,
22	Marlboro area	22	what about you, Ms. Duckett, do you agree with KHCA or
23	MR. GROSSMAN: Okay.	23	MS. DUCKETT: No, I don't I didn't agree with
24	MS. ROSENFELD: so he has to deal with the	24	submitting these last articles that they submitted, but I
25	Beltway.	25	don't understand enough about a court process. I thought,
	Page 7		Page 9
1	MR. GROSSMAN: All right. And, of course, the	1	why are they adding stuff in that seems brand-new on
2	only witness scheduled for today is the cross-examination of	2	rebuttal of a witness who is not there? So I didn't agree
3	Dr. Cole in surrebuttal, and then we'll discuss the	2	
5		3	with it. I told Karen I didn't agree with
	objections to exhibits. And where we left off was the	3 4	
4			MR. GROSSMAN: Okay.
4 5	objections to exhibits. And where we left off was the	4	MR. GROSSMAN: Okay. MS. DUCKETT: admitting those.
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	Page 10		Page 12
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1	MS. ADELMAN: But we yes.	1	MS. ADELMAN: That's right.
2	MR. SILVERMAN: don't see how you can base a	2	MR. GROSSMAN: you understand that?
	decision on the matter or take guidance from it when you	3	MS. ADELMAN: That's right.
	have no guidance from an expert, when we've been saying so	4	
	many times, as various laywitnesses tried to put in learned		opposition's articles were really very relevant to our
	treatises, that why I think you said, well, why do that		medical experts, and one of them, I think, was essentially
	when you have experts? Well, they have plenty of experts.		an update. I think we we had a document that said you
	They have unlimited resources. They chose not to go that		can't quote it, it's just a draft, and now we have another
	route. So I don't think we should, it should, we should		document that, this time, which is, which is essentially the
_	cloud the record with these items.		same information that is quotable and is an official
11	MR. GROSSMAN: I'm not exactly sure what you mean		document. I think that's, I think it's a there's no
	by, we gave Mrs. Adelman a rush. I guess I won't explore		surprise here, and I think it just illuminates the testimony
	that any further unless she wants to add on, but I think I		that was given.
	have the sense of your point. Before I turn to the	14	And to the extent that Dr. Chase has cited a
	applicant, do you want to respond to that, Ms. Rosenfeld?		source, if they want to put that source in, that's fine; if
16	MS. ROSENFELD: Well, certainly. In conceding to		they think that the health effects of diesel engines is
17	admitting these documents, we don't, we're not making any		relevant to this proceeding, that's fine. I wouldn't have
	concessions on their relevance or their weight or their		an objection to that. I just don't think we should start
19	credibility		bringing in a whole lot of new, really new things that have
20	MR. GROSSMAN: Certainly.		not been brought up before.
21	MS. ROSENFELD: and all of that remains to be	21	MR. GROSSMAN: No, I mean, but your part of
22	5		your objection was that there isn't an expert coming in to
	Kensington View Kensington Heights, I don't want it to be		explain or be, or be responsive to cross-examination on the
	presumed that we're accepting it at face value, the reports.		new articles, and I guess the same could be said about the
25	MS. CORDRY: And I would note that one of the	25	additional health articles being proposed by the opposition
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	Page 11		Page 13
1	Page 11 articles was already submitted by Dr. Chase as one of his	1	Page 13 in lieu of having Dr. Jison return to the stand. So I, I
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	Page 14		Page 16
1	a compromise that was actually suggested by Ms. Rosenfeld,	1	MR. GROSSMAN: Right.
	and I'm unclear whether she's objecting to this proposal now	2	
	or if it's only she's not?	3	has to apply consistently. So either they all come in or
4	MR. GROSSMAN: No.		they don't all come in would be our position.
5	MS. CORDRY: No, we're not objecting.	5	MR. GROSSMAN: Okay. All right. So let's move to
6	MR. GOECKE: Okay. So it's just Mr. Silverman and		the next point in terms of the timing of the briefing.
	Ms. Adelman, and so		Assuming that today is the last evidentiary day, then it was
	MR. GROSSMAN: And Ms. Duckett.		
8			agreed that the applicant's brief would be filed would be
9	MR. GOECKE: And Ms. Duckett as well. And so just		due 30 days after the final hearing date, Opposition brief
	to clarify how we got here, the whole point was to avoid		would be due 20 days thereafter, and the reply brief due 10
	having the additional medical experts testify, again,		days after that. So the Applicant's brief is therefore due
	Drs. Jison and Dr. Bunn. If Mr. Silverman's objection is		on June 30th since June 28th is a Saturday. So that moves
13	that he can't cross-examine the witness who would testify	13	it to the following Monday under that program. So that
14	about this, we're happy to provide Dr. Bunn on June 6. We	14	would be June 30 for the applicant's brief. The opposition
15	can make him available. He is available on that day.	15	brief would be due on July 21, 2014, because July 20 is a
16	We had reached this compromise in an effort to	16	Sunday. Applicant's reply brief, if any, will be due on
17	avoid prolonging this hearing and adding additional	17	July 31, 2014, and then I am proposing that the next session
	testimony. So we would, you know, accept Ms. Rosenfeld's		would be for oral closing arguments, which the parties have
19	offer. This is the first we're hearing of any objection.		requested, here in the second floor hearing room of the COB
	You know, we told them that we were going to provide these		at 9:30 a.m. on Tuesday, August 12, 2014. And then yes,
	documents. We received many, many documents that we could		ma'am.
	have submitted. We tried to pick a select few, to narrow it	22	
	down, that were the most germane and without being	23	
	repetitive or redundant.		we adjourn today, the record will remain open only for
25	We think that these documents are highly relevant		briefs, oral closing arguments, and discussion of possible
25		25	biers, oral closing arguments, and discussion of possible
	Page 15		Page 17
1	-	1	Page 17 conditions.
	to the issues in this case. We think they would be helpful	1	conditions.
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	Page 18		Page 20
1	MR. SILVERMAN: No.	1	MS. ADELMAN: There's no problem with the
2	MR. GROSSMAN: don't say that on the record.		Coalition.
3	We won't find out. Let's see. I mean, we could do August	3	MR. GROSSMAN: Okay. Great.
	14.	4	
5	MS. HARRIS: That would be better for me.	5	MS. CORDRY: No, 14.
6	MR. GOECKE: That works for us.	6	MS. ADELMAN: August 14th.
7	MR. GROSSMAN: Does that work for everybody,	7	MR. GROSSMAN: No, August 14th.
8	Thursday?	8	MS. ADELMAN: 14.
9	MS. ROSENFELD: Wait. Wait. I'm not sure. I'm	9	MS. DUCKETT: 14th, right. Right. I'm okay with
10	not sure. Hold on.	10	that.
11	MR. GROSSMAN: I am going to be out of town on the	11	MR. GROSSMAN: Okay. Good. Then we're a go. So
12	15th. So		when we adjourn today, the record will close for everything
13	MS. ROSENFELD: I am probably going to be taking	13	except for closing oral arguments, briefs, and a discussion
	my daughter to college. The first move-in date is August		of conditions to be recommended, and we will resume here on
	15th.		August 14 at 9:30 a.m., Council Office Building, second
16	MR. GROSSMAN: Will you not be available on the	16	floor hearing room, to hear, just to hear oral closing
	14th, are you saying, or if your move-in date is the	17	5
18	MS. ROSENFELD: Actually, if the move-in date is		nature of oral argument, I think, was agreed upon, that the
	the 15th	19	
20	MR. GROSSMAN: How far		40 minutes, similar to what the Council does when it has
21	MS. ROSENFELD: the 14th would probably work.		oral arguments on zoning and re-zoning matters.
22	MR. GROSSMAN: Okay.	22	Any other preliminary or procedural matters?
23	MS. ROSENFELD: South Carolina.	23	MR. SILVERMAN: There are other witnessless
24	MR. GROSSMAN: Okay. Well, that's where, that's		documents that the
25	where I'm going well, that's another, that's another	25	MR. GROSSMAN: Witless or witnessless?
	Page 19		Page 21
1	-	1	C C
1	question.	1	MR. SILVERMAN: Witnessless, that is to say,
	question. MR. SILVERMAN: Share rides, talk about the case.	2	MR. SILVERMAN: Witnessless, that is to say, documents without witnesses, hanging in the air. There's,
2	question. MR. SILVERMAN: Share rides, talk about the case. MS. ROSENFELD: Should we meet up for a beer?	2 3	MR. SILVERMAN: Witnessless, that is to say, documents without witnesses, hanging in the air. There's, Mr there are two documents that they indicated they're
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	Page 22		Page 24
1	use it on cross-examination; then you can raise any	1	certainly be objecting to those documents when they come in,
	objection at that time, and let's see if it's irrelevant in		to try to the other documents, when they try to
	the context of the cross-examination at that point. I don't		cross-examine Dr. Cole about them.
	want to rule on that preliminarily.	4	MR. GROSSMAN: Okay.
5	MR. SILVERMAN: Okay. And then with regard to	5	MS. HARRIS: Mr. Grossman, if I could just comment
6	Mr. Guckert's new documents, there again, if he had	6	on that?
7	something he wanted to introduce, he had, you know, their	7	MR. GROSSMAN: Yes. Well, I was going to hear
8	they had their rebuttal, he could have introduced it, but	8	from Ms. Duckett first.
9	this idea of, oh, well, we were hurt on our rebuttal and	9	MS. HARRIS: Okay. Okay.
10	therefore we'll come up with a whole new thing, in a way,	10	MR. GROSSMAN: Did you have anything to say on
11	this is a I just think it was a humanitarian gesture. I	11	these points, Ms. Duckett?
12	mean, how many times does Ms. Cordry have to go through and	12	MS. DUCKETT: No. The Guckert e-mail? No, I
13	correct Mr. Guckert's mistakes? I mean, we've done it twice		don't have anything to say about that.
	and on two whole different theories, and now we've got some	14	-
	third thing. I don't, I don't pretend to understand it. I	15	5 5
	kind of got the ARM2 stuff, but I don't get this at all. I		the comment about the 10-day period. The applicant has been
	never have, but it just seems, this is a late date. I mean,		extremely patient and forgiving in this case in regards to
	they could keep on coming with theories endlessly. This is		counting to 10 and documents submitted 10 days in advance,
	really late in the day.		and so we and especially when it came to
20	MR. GROSSMAN: All right. Let's turn, first of		cross-examination documents.
	all, I guess, to Ms. Cordry on the humanitarian gesture.	21	5
22	MS. CORDRY: I will have to say, although I do appreciate, Mr. Silverman, I believe, and if you're speaking	22	MS. HARRIS: So in fairness to all parties, I think there is no weight to that comment at all.
	of the HCM analysis that they submitted on	23 24	· · · · · · · · · · · · · · · · · · ·
25	MR. SILVERMAN: Yes.	25	
	Page 23		Page 25
1	Page 23 MS. CORDRY: one day ago	1	Page 25 could after hearing Dr. Cole's testimony.
1		1	could after hearing Dr. Cole's testimony.
2	MS. CORDRY: one day ago		could after hearing Dr. Cole's testimony. MS. CORDRY: Okay.
2	MS. CORDRY: one day ago MR. GROSSMAN: Which they indicated, it was a	2	could after hearing Dr. Cole's testimony. MS. CORDRY: Okay. MR. GROSSMAN: I think that's fair. We've
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MS. CORDRY: one day ago MR. GROSSMAN: Which they indicated, it was a summary of what he testified to, I think, is what MS. CORDRY: It appears to me, I do recall his testifying that they had used a default value of a certain percentage of trucks, they thought the number was lower, that because trucks are slower, I guess, and bigger, that they can take a little longer going through and it would make about a one-second difference and that this is now a re-version of the, revision of the document that shows the effect of that one second. I, all in all, I don't really care. I mean, the difference between 49 point MR. GROSSMAN: We've worn you down after MS. CORDRY: Well MR. GROSSMAN: only 36 days? MS. CORDRY: Well, the point is he testified to the one second. Having him put in in detail the difference between the 50.63 and the 49.6, none of that affects the numerous points I made about why either one of those numbers is too low. So I will not fight this particular one coming in. I don't really think it does much of anything there, but that's fine. One point I would make on the articles, these new	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	could after hearing Dr. Cole's testimony. MS. CORDRY: Okay. MR. GROSSMAN: I think that's fair. We've MS. CORDRY: Well MR. GROSSMAN: bent the rule, in terms of cross-examination, to the extent that it once again, it is an ad hoc rule that I have imposed here to ensure that in a case of this volume and complexity, that we got the fairest presentation of evidence, but I think it's fair. MS. CORDRY: I will have my, we will have our points about whether or not this information was not in their contemplation before then, but the last point and this is a different point I have a correction for a previously admitted document that I think is not going to be controversial. I think it'll be I'm just going to suggest we should do it at the end when we're doing the objections to the other documents. I can just show what this correction is and we can deal with it. I don't think we need to deal with it now, but just to let you know that. MR. GROSSMAN: I will leave it to your judgment as to when to raise it, but MS. CORDRY: It's actually, was the argument document I put in about emissions and background levels and

	Page 26		Page 28
1	version but what had gotten copied and put in the record was	1	MR. GROSSMAN: the applicant's counsel
	a prior version. So I want to make sure that	2	
3	MR. GROSSMAN: I see.	3	· · · · · · · · · · · · · · · · · · ·
4	MS. CORDRY: the version that stays in the	-	during a break and see
	record is the version that was sent to them at the time, and	5	MS. CORDRY: Yes, and to complicate it just
	we've never actually nobody's actually ever come out and		slightly further, which is one of the reasons why I was just
	testified about that. We took that, if you recall, as being		going to put it off, but let's, since we're already in the
	an advance on the argument. So		middle of this, let me just do it. When I was looking at
9	MR. GROSSMAN: The same thing as occasionally		it, I found three minor corrections that I wanted to have in
_	happened in the other direction with		the final version. One was a page cite was wrong. One was
11	MS. CORDRY: Right. Right, but this		a quote that I did. I had slightly paraphrased instead of
12	MR. GROSSMAN: with the rebuttal report.		correctly quoting it. And the third one this is what I
13	MS. CORDRY: this time they were e-mailed the		was learning when I was going back over this I had
	correct version. So		thought I had the last version of the protocol. What I had
15	MR. GROSSMAN: Right.		was the earlier version of the protocol. So one of my
16	MS. CORDRY: the version that's in the record		footnotes
	that I don't think anybody's ever looked at since it went in	17	MR. GROSSMAN: Which protocol?
	the record is the one that's in error. So	18	MS. CORDRY: The master protocol that had been
19	MS. HARRIS: Karen, which exhibit are you	-	worked on between Dr. Cole and Mr. Sullivan.
	referring to?	20	MR. GROSSMAN: I see.
21	MS. CORDRY: It's 431(b). It's the one labeled	21	
	Emissions Levels, Effective Monitor Choices and Other		report Mr. Sullivan said he did such and such out of the
	Corrective Factors.		protocol, and I said that was wrong, blah, blah, blah. What
24	MR. GROSSMAN: Just in case somebody is just		I realized was that I had been looking at an earlier version
	tuning in here, some of the documentation that Ms. Cordry		of the protocol and the final version of the protocol was in
	Page 27		Page 29
1	Page 27 produced that we allowed, we allowed because it really was	1	Page 29 fact consistent with what Mr. Sullivan was saying. So I
		1	fact consistent with what Mr. Sullivan was saying. So I
2	produced that we allowed, we allowed because it really was		fact consistent with what Mr. Sullivan was saying. So I MR. GROSSMAN: Okay.
2 3	produced that we allowed, we allowed because it really was just an advance on her closing argument or a portion of her	2 3	fact consistent with what Mr. Sullivan was saying. So I MR. GROSSMAN: Okay.
2 3 4	produced that we allowed, we allowed because it really was just an advance on her closing argument or a portion of her closing argument. It was argumentative rather than	2 3 4	fact consistent with what Mr. Sullivan was saying. So I MR. GROSSMAN: Okay. MS. CORDRY: so I have actually two redline
2 3 4 5	produced that we allowed, we allowed because it really was just an advance on her closing argument or a portion of her closing argument. It was argumentative rather than evidentiary and was to be treated in that fashion, and I	2 3 4	fact consistent with what Mr. Sullivan was saying. So I MR. GROSSMAN: Okay. MS. CORDRY: so I have actually two redline versions. Let me, let me, I'll work on this all within a
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	Page 30		Page 32
1	MR. GROSSMAN: I'm not sure why you need two	1	MR. GROSSMAN: Right.
2	redlines for that.	2	· · · · · · · · · · · · · · · · · · ·
3	MS. CORDRY: Well, one was the redline of the	3	admitted that his preference is to not have it that way.
4	exhibit version to my final version, and the other is a	4	So
5	redline between what I submit I'll explain it. I can't	5	MR. GROSSMAN: All right. Yes. My ruling on it
6	even keep track myself right now, but there are, there are	6	is I'm going to allow the articles, the agreement with, at
7	two.	7	least that portion of the opposition by Kensington Heights
8	MR. GROSSMAN: All right. All right. I'll go	8	Civic Association, with the applicant in lieu of live
9	with that. All right. Now, did you, did the applicant wish	9	testimony. As I've said before, certainly live expert
10	to be heard further on the, on Mr. Silverman's objection to		testimony has a, subject to cross-examination, is given a
11	additional articles?		certain weight here and there's a lesser weight given to
12	MR. GOECKE: I guess one other point I'd like to		articles which are, you know, from scientific sources but
	make is, to the extent that there are exhibits that have		are not, have not been subject to, in effect, the
	been submitted that no one has testified about, the		cross-examination process. But given the nature of our
	opposition has submitted voluminous amounts of exhibits that		proceeding here, we're allowing those in for the weight that
	no one has testified about. So I think this is another		they deserve, and I think the fairness aspect is to both
	example of where they're trying to apply inconsistent rules		sides here. Okay.
	to the proceeding.	18	, · · · · ·
19	MR. GROSSMAN: Well, let me stop you here. What		right, and nothing else that was submitted with respect to
	about that, Mr. Silverman? There are tons of exhibits that		Dr Dr. Bunn, Mr. Bunn?
	have been submitted by the opposition for which there has	21 22	
22	not been an expert koshering here. MR. SILVERMAN: Well, you know, we were, at the	22	
_	very the very first day of this case we were told that	-	that, none of which are coming in because
	the opposition, we were emotionally, not driven by facts and	25	· · · · · · · · · · · · · · · · · · ·
	······································		
	Page 31		Page 33
1	Page 31 so forth. This is not, I'm not, this is not this is not	1	
	-	1	MS. CORDRY: he's not being admitted as an
2	so forth. This is not, I'm not, this is not this is not		MS. CORDRY: he's not being admitted as an expert or anything like that? Okay.
2 3	so forth. This is not, I'm not, this is not this is not an emotional statement, but when someone says you really	2	MS. CORDRY: he's not being admitted as an expert or anything like that? Okay. MR. GROSSMAN: That's correct. All right.
2 3 4	so forth. This is not, I'm not, this is not this is not an emotional statement, but when someone says you really don't know what you're talking about or you're not being	2 3 4	MS. CORDRY: he's not being admitted as an expert or anything like that? Okay. MR. GROSSMAN: That's correct. All right.
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	Page 34		Page 36
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	regarding things that affect the world, in general. I have a narrow scope, to deal with the potential adverse effects on the site, the immediate neighbors, and the general neighbor. That's the limited scope. So I don't think we have plenty here to keep us busy and to evaluate without trying to evaluate the issue of global warming or climate change, whatever you want to call it. MS. CORDRY: We will respectfully dissent from that, and I expect MR. GROSSMAN: Right. MS. CORDRY: we will still make the argument to you, but we will not pursue it any further on the record today. MR. GROSSMAN: All right. Very good. Okay. Then I think we've finished our preliminary matters and we are turning to the resumption of the cross-examination of Dr. Cole and his surrebuttal. MR. GROSSMAN: And you are still under oath, Dr. Cole. (Witness previously sworn.) THE WITNESS: Yes, and if I can indulge you for a second, you asked a question last time that I didn't have a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	ozone and NO2 monitored at the same site let me just consult my list that you would have, that you would have at least suburban density so that it's representative of the level of traffic; and, finally, that my preference would be to choose something that was as close to the site, in other words, to the mall, as possible, and that was also in the same basic relationship of the site to the metropolitan area. Now, when I looked at those criteria, only, really only two stations had stood out, and those were the two District of Columbia sites. One was 34th Street Northeast, and the second was, the second was First Street Northwest. The, those sites meet all the criteria, and they are consistently about 10 parts per billion higher than the Arlington monitor, which is located a great distance from the site. So of those two I picked the closest, which has slightly lower values but it is the closest site to the mall, which would be the First Street Northwest. It's located to the north of the metropolitan area. MR. GROSSMAN: All right. So as I recall your testimony the last time, you had stated the criteria but you had not selected a site. THE WITNESS: Okay. MR. GROSSMAN: That's my recollection of it, and
	precise answer to.		now what you're doing is saying you've now looked it over
	Page 35		Page 37
1	MR. GROSSMAN: All right.	1	and the site you would have chosen and I presume you mean
2	THE WITNESS: With your permission, I would like		for NO2 one-hour background, is that correct?
	to come back to it, which was with regard to the choice of a monitoring site for background NO2 concentrations.	3 4	THE WITNESS: That is correct. MR. GROSSMAN: Okay. The site you would have
5 6 7 8 9 10 11 12 13 14 15	MR. GROSSMAN: Yes. THE WITNESS: And I have a couple of slides here which, which I will refer to. MR. GROSSMAN: Slides that were previously submitted, you mean? THE WITNESS: No, but they're from data that was previously submitted. MR. GROSSMAN: Well, why don't you just before you get into slides THE WITNESS: Okay. MR. GROSSMAN: just tell me what you're, what you're adding to your answer. THE WITNESS: All right. I've, I put together a	5 6 7 8 9 10 11 12 13 14 15 16	chosen, a monitoring site, to get the background data would have been the First Street Northwest, D.C., site? THE WITNESS: Correct. MR. GROSSMAN: Okay. And was there a discussion of which site would be chosen when you were discussing the protocol with Mr. Sullivan? THE WITNESS: At the time, we were mainly focused on PM2.5, and if you look at the protocol, it has some discussion of the Rockville and Beltsville monitors, which do monitor PM2.5. I thought that was, those were close, fairly close to the site. I had some questions about whether they were representative, which I have expressed in previous submittals to you about the fact that these, that there was more sort of rural area and less traffic at those

	Page 38		Page 40
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	discussing that.		can straighten me out
2	MR. GROSSMAN: All right. And until you came to	2	MR. GOECKE: Right.
	testify today about it, you had not selected the First	3	MR. GROSSMAN: on it.
	Street Northwest, D.C., site as the most appropriate for the	4	MR. GOECKE: Right. Okay.
	background monitoring for NO2?	5	MR. GROSSMAN: I don't think it's really a
6	THE WITNESS: Right. I had expressed a preference	6	
	for those D.C. sites to the north of most of the	7	MR. GOECKE: Okay.
	metropolitan area, and in deference to your question, I	8	MR. GROSSMAN: Okay.
	selected one of those as what I thought was the best, the	9	SURREBUTTAL CROSS-EXAMINATION (Resumed)
	most representative, the most accurate.	10	BY MR. GOECKE:
11	MR. GROSSMAN: No, I mean, prior to today. You	11	Q And so, Dr. Cole, just touching upon the
	talked about	12	
13	THE WITNESS: Right.	13	have no recollection of discussing NO2 monitoring sites in
14	MR. GROSSMAN: Beltsville and Rockville. Was	14	your protocol discussions with Mr. Sullivan?
	there a discussion was there a recommendation or had you	15	A That's my recollection.
	reached this conclusion prior to today regarding an	16	Q Your recollection is that you have no
	appropriate monitoring site?	17	recollection?
18	THE WITNESS: Not for NO2.	18	A No. My recollection is we did not we discussed
19	MR. GROSSMAN: Okay. All right. Thank you. All	19	monitoring sites in general. The issue of specifically NO2
20	right. Do you want to resume your cross-examination,	20	in Arlington, in my recollection, did not come up.
	Mr. Goecke?	21	Q And that's because you were more concerned about
22	MR. GOECKE: I do, but before we get into it, I	22	PM2.5 at that point and not NO2?
	think there's one more preliminary matter. You had raised a	23	A That's my recollection.
	question last time about the additive nature, about the	24	MR. GROSSMAN: Forgetting about Arlington for a
25	ratio that Mr. Sullivan had applied in and around the gas	25	second, did you discuss in the protocol discussions a site
	Page 39		Dama 44
	Fage 39		Page 41
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	queue area as in terms of how that combined with background,		to use as a monitoring site for NO2?
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1	when the famous error in converting parts per billion to	1	values, the more scrutiny and the less agreement there is.
2	micrograms per cubic meter occurred, and suddenly it was	2	That's simply the way the process works.
3	clear that NO2, the one-hour NO2 was in fact a very critical	3	MR. GROSSMAN: Mr. Goecke, what's the exhibit
4	issue, and at that point, you know, I started to look in	4	number for the final protocol that was agreed to?
5	greater detail.	5	MR. GOECKE: I'm not sure. We can check the
6	BY MR. GOECKE:	6	exhibit list.
7	Q So your answer is, until today, you've never told	7	MS. HARRIS: We can check, but it may take a
8	Mr. Sullivan he shouldn't use the Arlington location for the	8	while.
9	NO2 background levels?	9	MR. GROSSMAN: Yes. I mean, I would actually like
10	A Well, after the November 2nd protocol, there was	10	to look at that protocol.
11	no discussion about anything. He chose all kinds of methods	11	MS. CORDRY: Okay.
12	without any consultation whatsoever with me. So	12	MR. GROSSMAN: Okay. BY MR. GOECKE:
13	Q So you're still avoiding the question. Until today, you never complained to Mr. Sullivan about the use of	13 14	
14 15	the Arlington location for NO2 background levels?	15	Q Okay. And so taking what you're saying now, that with reduced conservatism, the modeling process invites more
16	A What is the format for complaining to	16	scrutiny, the fact remains that in terms of the Arlington
17	Mr. Sullivan? Is that an ex parte discussion? I came and	17	monitoring location, you have never voiced any criticism, or
18	testified, and I think, I believe I raised some concerns in	18	not say, you've never suggested an alternative location
19	previous testimony about that.	19	until today?
20	Q The error you're referring to in the conversion of	20	A Well, that's, that would be correct.
21	parts per billion to micrograms per cubic meter, when did	21	Q Thank you. And can you tell me the criteria,
22	that when did you first become aware of that?	22	again, that you applied in coming up with the two D.C.
23	A I believe it was around June of 2013.	23	locations?
24	Q Yes. And you testified in this hearing on	24	A One is that they have a continuous multiyear
25	December, early December of 2013, correct?	25	record, which the Arlington site meets that criteria.
	Page 43		Page 45
1	Page 43	1	Page 45
1	A That's right. It was December 5th and 6th.	1	Q Okay.
2	A That's right. It was December 5th and 6th.Q For two days you testified, and during those two	2	Q Okay.A The second one is that ozone and NO2, the monitors
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	Page 46		Page 48
1	guidance? How did you come up with these four criteria?	1	THE WITNESS: For ozone?
2	A Well, EPA guidance manual talks about	2	MR. GROSSMAN: Yes. You said, you just added on
3	representativeness of the site	3	that you
4	Q Yes.	4	THE WITNESS: Arlington, Arlington does not have
5	A and that was my criteria for being	5	ozone, number one.
6	representative.	6	MR. GROSSMAN: And the two D.C. sites that you
7	Q And which guidance are you referring to	7	mentioned?
8	specifically?	8	THE WITNESS: The two D.C. sites have both NO2 and
9	A It's, I'm sure it's in Appendix W. I can't give	9	ozone for the whole year.
10	you the exact cite.	10	MR. GROSSMAN: For the whole year. Okay.
11	Q Okay. And does Appendix W, is proximity one of	11	THE WITNESS: I believe that Beltsville and I
12	their criteria, Appendix W?	12	do want the privilege of checking this out during a break to
13	A I'm not sure.	13	make sure I've got this right, because I'm not a Univac with
14	Q And I think we talked about this at the last	14	a total recall of all the data
15	hearing. We agreed that Appendix W is more focused on	15	MR. GROSSMAN: Okay.
16	representativeness as opposed to proximity, is that correct?	16	THE WITNESS: I believe that's right, but I
17	A Yes	17	would like
18	Q So	18	MR. GROSSMAN: And you believe that what's right?
19	A but it doesn't give you a whole lot of detail,	19	That Beltsville what?
20	and to me, something that's entirely on the opposite end of	20	THE WITNESS: Only records ozone for part of the
21	the metropolitan area and subject to much different		year.
22	source-receptor relationships, depending upon wind	22	MR. GROSSMAN: Okay.
23	direction, is not representative. That's my professional	23	BY MR. GOECKE:
24	judgment.	24	Q And I noticed that you were looking at your
25	Q Would Beltsville meet your criteria?	25	computer before you made that last comment. Did you look at
	Page 47		Page 49
1	A I don't believe that Beltsville I'm trying to	1	a document or some site to refresh your recollection?
2	think whether they have can you show me the	2	A I couldn't find it. I'm looking at a, I'm looking
3	Q If you haven't looked at it, that's fine. I'm	3	at a do you want to look at it?
4	just curious if you've analyzed it.	4	MR. GOECKE: May I approach?
5	A I don't think that Beltsville met the criteria,	5	MR. GROSSMAN: You may, and if you prefer, the
6	and I can't	6	witness doesn't have to have any documents in front of him.
7	Q Why not?	7	THE WITNESS: Oh, that's fine. Fine. Fine. I
8	A I'd have to go back and look at the	8	didn't touch anything.
9	Q Do you know whether the NO2 background levels for	9	MR. GOECKE: I'm just curious as to what he's
10	Beltsville are higher or lower than Arlington?	10	looking at.
11	A I'd have to check that out.	11	THE WITNESS: Right there.
12	Q Would you agree that the locations in	12	BY MR. GOECKE:
13	A I believe, I believe that, for example, that ozone	13	Q Okay.
14	and possibly NO2 were only recorded for part of the year,	14	A I couldn't, I can't both pay attention as my
15	for the summer, basically, because they're, those the concern there was ozone, regional ozone concentrations	15	wife will tell you, she can do six things at the same time, but I can only do one thing at a time. So have some
16 17	rather than NO2 specifically. That's my recollection. I'd	16 17	Q Okay. I'm just trying
18	have to I will, during a break, check that.	18	A have
19	MR. GROSSMAN: When you say only recorded for part	19	Q I'm just trying to focus on one thing right
20	of the year, are you talking about the D.C. locations	20	now, just on
20	THE WITNESS: No.	20	A have forbearance.
22	MR. GROSSMAN: the Arlington location, the	22	Q We're just going to focus on Beltsville right now.
23	Beltsville location?	23	So would you agree that Beltsville meets the minimum
24	THE WITNESS: Those, for NO2	24	requirement of suburban development as one of your four
		1	
25	MR, GROSSMAN: No. for ozone.	25	criteria?
25	MR. GROSSMAN: No, for ozone.	25	criteria?

	Page 50		Page 52
	-		-
1	A Well, Beltsville is a lot of rural area. There is		these draft beta-test options does not imply any endorsement
2	Route 1, that corridor next to but there's also an awful	2	of their use for regulatory or non-regulatory applications
3	lot of rural space, which is missing from the Wheaton Mall.	3	of the model. In addition, the designation of beta test to
4	Sol	4	these draft enhancements does not imply that these options
5	Q So, in your opinion, no, it does not?	5	have completed rigorous internal, quote, alpha, unquote,
6	A I don't think it's necessarily representative, no.	6	testing prior to being included in a public release of the
7	Q Okay. Would it meet your criteria for proximity	7	model.
8	to the Wheaton site?	8	We think those statements, standing alone; make
9	A Yes, it would.	9	clear that this is not any kind of scientific method that
10	Q And would you agree that the two monitoring	10	has received general scientific acceptability. It is a, in
11	locations in D.C. are more developed than the Wheaton	11	the same parlance as a computer test, it's a beta test.
12	location?	12	It's an experimental document that's being reviewed, it's
13	A No.	13	being considered, but it has not in any way, shape, or form
14	MR. GOECKE: And, Mr. Grossman, I'd like now to	14	even been endorsed by the EPA as a non-default option. So
15	ask the witness a few questions about the document that Mr. Silverman alluded to before. This is the Ambient Ratio	15	
16	Method Version 2	16	MR. GROSSMAN: All right. First of all, where
17		17 18	were you reading in the EPA?
18 19	MR. GROSSMAN: Okay. MR. GOECKE: which has been distributed to	18 19	MS. CORDRY: We're reading from a document entitled User's Guide for the AMS slash EPA
20	everyone but not made part of the record yet.	20	MR. GROSSMAN: Hold it. User's Guide for the AMS?
20	MR. GROSSMAN: All right.	20	MS. CORDRY: Slash EPA Regulatory Model dash
22	MR. SILVERMAN: I'd like to object to it being	22	AERMOD.
23	outside the scope.	23	MR. GROSSMAN: Hold it a second. Regulatory Model
24	MS. CORDRY: Yes. We would like to object to this	24	slash AERMOD.
25	initially on the basis that	25	MS. CORDRY: And it's
	Page 51		Page 53
1	-	1	-
1	MR. GROSSMAN: Well, it's not marked as an exhibit	1	MR. GROSSMAN: And who puts that out?
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	Page 54		Page 56
1	MR. GROSSMAN: it's against your better	1	happy to make copies of those pages rather than introduce
2	judgment to introduce anything that's not at least 150	2	multiple copies. I didn't have time to make eight copies of
3	pages.	3	a 159-page document.
4	MS. CORDRY: Right. Right. Well, we will	4	MR. GROSSMAN: Right. I think what we'll do is
5	certainly print out these, some of the relevant pages. We	5	let them look at it during the break for sure, or they can
6	really only, obviously, got the original document a couple	6	take a break now, if they want, to look it over and see
7	of days ago	7	where they go from there, but hold on. Let me just write
8	MR. GROSSMAN: Right.	8	this. This is EPA May 2014 Addendum to User's Guide for the
9	MS. CORDRY: looking at this. That's from	9	AMS slash EPA Regulatory Model-AERMOD, and I'll put parens,
10	pages 17 and 18 of this document.	10	specifically pages 17 to 18. Hold on a second.
11	MR. GROSSMAN: Okay. So pages 17 to 18.	11	(Exhibit No. 610 was marked
12	MS. CORDRY: Right.	12	for identification.)
13	MR. GROSSMAN: Let's mark that	13	MS. CORDRY: There may be other pages that also
14	MS. CORDRY: All right.	14	describe that this is the beta model and so forth, but
15	MR. GROSSMAN: and we'll put it in as Exhibit	15	that the document is available on the EPA website. I
16	610.	16	don't believe it's published in the Federal Register. It's
17	MS. CORDRY: Okay.	17	part of their internal guidance. Actually, if you look
18	MR. SILVERMAN: Mr. Grossman	18	at yes, on page 18 it specifically describes it. The
19	MR. GROSSMAN: Mr. Silverman.	19	ARM2 option, which is referred to here, is one of the ones
20	MR. SILVERMAN: we have a less scientific, more	20	that's specifically listed there as being one of these beta
21 22	legal objection. MR. GROSSMAN: I understand, but let me	21 22	options. So it does refer to it there. MR. GROSSMAN: Right. And are you suggesting that
22	MS. CORDRY: Right.	22	in this document, Exhibit 610, that the EPA is saying don't
23 24	MR. SILVERMAN: Okay.	23	use ARM2, or are they saying we're not guaranteeing its
25	MR. GROSSMAN: let me deal with one at a time	25	accuracy or whatever because it hasn't been fully tested?
	Page 55		Page 57
1	Page 55 here.	1	Page 57 MS. CORDRY: They're saying this is a document
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	here.		MS. CORDRY: They're saying this is a document
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	Page 58		Page 60
1	from this, they have simply said, here it is, you can play	1	from reading this that they put it out there and it's like,
2	with it, but they have not said whether they're going to	2	here it is, folks, you know, go ahead, do some more work on
3	accept it or use it in any way, shape, or form yet.	3	it; at some point, when we have enough rigorous internal
4	I mean, you're reading the same language I'm	4	alpha testing, maybe we'll consider making it a model, but
5	reading, which came out on May 16th, I believe it was, yes,	5	at this point, it's just something out there that people can
6	May 16th. So but I certainly cannot read that as saying	6	use to play with, as far as I can tell from this.
7	that a beta test model can meet the criteria in Maryland law	7	MR. GROSSMAN: Yes. I'm going to let the
8	for general scientific acceptability when the agency itself	8	applicant take a look at this. One of the things that I'm
9	says we have not taken any position on whether we're going	9	wondering about is we don't know yet how it's going to be
10	to use, allow this.	10	used in cross-examination. So I don't know how pertinent
11	MR. GROSSMAN: I'm going to give the applicant a	11	these objections are at this point, but let's let them look
12	chance to look this over before I rule on anything, but let	12	at the 610 comments in the addendum to the user guide. And
13	me hear from Mr. Silverman now. He had some other point	13	how much time do you need to
14	that he wanted to	14	MR. GOECKE: Just a few minutes.
15	MR. SILVERMAN: Yes. I don't recall Mr. Sullivan	15	MR. GROSSMAN: Okay. All right. Why don't we
16	mentioning ARM2 in his testimony. I don't recall him	16	come back it's 10 to, or eight minutes to 11:00 now
17	mentioning it in his testimony. I do recall, Mr. Sullivan	17	we'll come back at 11 o'clock?
18	acknowledged that he did, he skipped over Tier 2. This is a	18	MR. GOECKE: Thank you.
19	modification of Tier 2. So I think this is beyond the scope	19	MR. GROSSMAN: Okay. And we're in recess then.
20	of the rebuttal. It is beyond the scope of the direct	20	(Whereupon, at 10:52 a.m., a brief recess was
21	testimony of Dr. Cole and should not be admitted for that	21	taken.)
22	reason. And it's well, I'll stop there.	22	MR. GROSSMAN: All right. Back on the record.
23	MR. GROSSMAN: Okay. All right. So you're	23	Does the applicant wish to respond to the objection?
24	MS. ROSENFELD: And we would join Mr. Silverman,	24	MR. GOECKE: Yes, we do.
25	as well, in his objections.	25	MR. GROSSMAN: All right. You may proceed.
	Page 59		Page 61
1	Page 59 MR. GROSSMAN: Okay. So the objection is based	1	Page 61 MR. GOECKE: Just a couple of comments. One, on
1 2	C C	1 2	, i i i i i i i i i i i i i i i i i i i
	MR. GROSSMAN: Okay. So the objection is based		MR. GOECKE: Just a couple of comments. One, on
2	MR. GROSSMAN: Okay. So the objection is based on, number one, the beta status of it; number two, that it's	2	MR. GOECKE: Just a couple of comments. One, on page 18, beneath the numbered paragraphs there, I think
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24 be qualified 24 Q I'm sorry. It wouldn't apply here because why	22	Q And do you agree with that statement?	22	that are cited here are not for ground-level motor vehicle
	23	A I believe that's a true statement but it needs to	23	sources; so they wouldn't apply here.
25 Q Okay. 25 A Because the evaluation studies that are listed	24	be qualified	24	Q I'm sorry. It wouldn't apply here because why?
	25	Q Okay.	25	A Because the evaluation studies that are listed in

	Page 66		Page 68
1	this report are for point sources or industrial sources, not	1	MR. GROSSMAN: Right.
2	for roadways or traffic areas.	2	THE WITNESS: Those two things together are most
3	Q Okay. So you disagree that a plume emitted from a	3	of the NOx. So what remains to react with the ozone is the
4	parking lot or a gas queue would not disperse more over	4	NO.
5	time, that NOx would not disperse more over time? I'm just	5	MR. GROSSMAN: Okay. So you correctly stated it.
6	trying to find out what portion of this you disagree with in	6	THE WITNESS: Yeah.
7	terms of applying it here.	7	MR. GROSSMAN: Okay.
8	A I didn't disagree with it. I qualified it.	8	BY MR. GOECKE:
9	Q Well, you said	9	Q Okay. And so at the last hearing, when you
10	A I said	10	testified that distance is not a factor, that wasn't
11	Q you said it doesn't apply here.	11	entirely correct, was it? I mean, distance, as you say,
12	MS. CORDRY: Asked and answered, I think, several	12	time and distance are factors in the conversion of NO to
13	times now.	13	NO2.
14	MR. GROSSMAN: Yes, but I think he can clarify. I	14	A I don't believe that's a correct statement of what
15	think I understand his answer, but if you want to pursue it	15	I said. I disagree with that understanding of what I said.
16	a little bit further, you can.	16	Q Okay. Well, perhaps I misunderstood you. So you
17	MR. GOECKE: I'm sorry. I don't understand his	17	agree that distance is a factor in the conversion process of
18	answer, yes. So	18	NO to NO2?
19	MR. GROSSMAN: Okay.	19	A Distance is a factor, and the ground-level
20	MR. GOECKE: I would like to pursue it further.	20	sources, the vehicle exhausts are going to react are
21	THE WITNESS: Okay. The last time I was,	21	going to dilute down to the molecular level both faster in
22	testified and answered questions on this subject, I	22	time and in a shorter distance. So they will affect the
23 24	distinguished between the length of time and the distance that it takes for a plume to get from the exhaust down to	23 24	NO2 will affect receptors that are much closer to the vehicles than it will, than the reaction takes place, let's
24 25	the molecular level and I made a distinction between motor	24 25	say, in a power plant plume. And I made the point that even
2.5		25	say, in a power plant plane. And tinade the point that even
	Page 67		Page 69
1	vehicles, which happen at ground level, where there's a lot	1	the document, the Environmental Agency document, not to be
2	of surface roughness, versus an elevated plume which may be	2	confused with EPA
3	100 meters high, which is not encountering that kind of	3	Q Yes.
4	dispersion.	4	A made the point, advised against or said it
5	So my only point is, this is basically correct;	5	would not accept using that model, that Janssen method, for
6	the issue is the speed of time and the distance that it	6	ground-level sources, for smaller sources.
7	takes for the molecules to get in contact with one another.	7	Q And so it's your testimony that the conversion
8	Is that clear?	8	process will happen more quickly in the gas station queue
9	BY MR. GOECKE:	9	than it would in a plume emitting from a power plant stack?
10	Q I think it is. So	10	MS. CORDRY: I think that has now been asked and
11	A Okay.	11	answered
12	Q let me try it this way. So the time and	12	MR. GROSSMAN: Well, let him, let him
13	distance required to convert NO to NO2 would be different for a plume coming from the gas station queue as compared to	13	MS. CORDRY: repeatedly. MR. GROSSMAN: I'll overrule the objection.
14	a power plant tall stack plume?	14 15	THE WITNESS: That is my testimony.
15 16	A Absolutely.	16	BY MR. GOECKE:
17	Q Okay.	17	Q Okay. And why is that exactly? Is that because
18	MR. GROSSMAN: I think you mean NOx as opposed to	18	the air is moving faster, or what's causing the process to
19	NO, NO being presumably	19	happen more quickly in a gas station queue?
20	THE WITNESS: Well, it's, should I can I	20	A Well, you have to look at the scales of
21	clarify that for you?	21	turbulence. As I testified last time, with a power plant
22	MR. GROSSMAN: Sure.	22	plume, you have a very wide stack, and I showed pictures
23	THE WITNESS: Okay. So if you take a power plant	23	of since Mr. Sullivan focused on stable conditions, I
24	plume, what's coming out of the stack is mostly NO. There	24	showed a picture of a plume, a power plant plume under
25	is some NO2, which is formed in the hot exhaust.		stable conditions. It was several hundred meters up in the

	Page 70		Page 72
1	air, and you could see that the plume was not mixing. You	1	MR. GOECKE: Sure.
2	could see that plume for miles, which is what happens with	2	MR. GROSSMAN: Let's see if I brought it in with
3	an elevated plume under stable conditions.	3	me.
4	On the other hand, when you get down to the ground	4	MR. GOECKE: And we'll put a copy up on the screen
5	level, when you have cars, when you have much smaller	5	as well.
6	plumes, when you have surface roughness that creates	6	MR. GROSSMAN: This CAPCOA, I guess, was 567, and
7	turbulence at a smaller scale in relationship to the	7	then I think it came up at the same time. All right. Well,
8	smaller-scale plume that's coming out, I showed pictures of	8	let's mark this as Exhibit 611. We'll just say, British
9	how rapidly exhausts from cars can disperse. So I think	9	Environmental Agency review of methods for NO2 conversion in
10	I've covered that in my previous testimony pretty well.	10	plumes at short ranges. Let's see if we have a date on
11	MR. GROSSMAN: And I think you've covered it in	11	this, November 2007. Okay. And you're looking at page 47?
12	the cross-examination. So	12	(Exhibit No. 611 was marked
13	THE WITNESS: Can you hear me back there?	13	for identification.)
14	MS. ADELMAN: Yes.	14	MR. GOECKE: This is page 47, yes.
15	MS. CORDRY: Much better. Much better. Thank	15	BY MR. GOECKE:
16	you.	16	Q And if you would, Dr. Cole, please read the
17	MR. GOECKE: Mr. Grossman, I'd like to ask	17	paragraph beginning, these urban schemes.
18	Dr. Cole a question about the Environmental Agency report	18	A These urban schemes suggest that to assume 100
19	that he just referred to. I don't have the exhibit number.	19	percent conversion, the first option available to the EA is
20	MR. GROSSMAN: That's the British Environmental	20	unrealistically conservative. Further, the photostationary
21	Agency	21	state does not indicate 100 percent conversion. We
22	MR. GOECKE: Yes.	22	anticipate that 100 percent conversion would frequently give
23	MR. GROSSMAN: one? I think it might let's	23	too high an estimate of impact of, I think it says NO2 or
24	see.	24	Q NOX.
25	MR. GOECKE: Do you know what exhibit that is,	25	A I think, I think they meant to say NO2, because
	Page 71		Page 73
1	Michele?	1	
2	MS. ROSENFELD: I don't, and I'm not sure it was	2	regulatory perspective, a 100 percent conversion is the most
3	ever exhibitized.	3	conservative estimate that is possible to make. Work by
4	MR. SILVERMAN: I'm not sure it was exhibitized.	4	Janssen of 1988 suggests that for large plumes there is a
5	MS. ROSENFELD: It's the first	5	near-surface, a near-, I'm sorry, a near-source region with
6	MR. SILVERMAN: It was referenced.	6	a low conversion, but that is rapidly asymptotic to the
7	MS. ROSENFELD: reference in Mr. Sullivan's	7	photostationary state after a modest travel time of perhaps
8	report, but I don't think it was ever entered as an exhibit	8	200 seconds, according to our calculation, using their
9	that I heard. MR. GROSSMAN: I thought it was, but maybe I'm	9	method. As such, it bears an unexpected but welcome similarity to our understanding of urban NO2 data. Hence we
10 11	mistaken.	10 11	suggest that the Janssen method may be more applicable to
12	MS. ROSENFELD: It's been discussed a number of	12	smaller plumes than has been recognized hitherto, provided
13	times.	13	care is taken to use appropriate, conservative values of
14	MR. GROSSMAN: I'm not seeing it, which doesn't	14	MS. CORDRY: Alpha.
15	mean that it wasn't introduced, but I'm not seeing it	15	THE WITNESS: alpha. This uses wind speed at
16	directly here. Do you have a copy there?	16	plume height, O3 background, NO plus O3 rate constant and
17	MR. GOECKE: I only have one copy, but we can	17	NO2 photolysis rate.
18	submit one. We can put it on the screen as well.	18	BY MR. GOECKE:
19	MR. GROSSMAN: All right. What's your what's	19	Q Thank you. So contrary to your earlier statement
20	the question?	20	that the EA report said that the Janssen study was not
21	MR. GOECKE: So I'm referring to page 47 of this	21	applicable to situations such as the proposed Costco gas
22	report.	22	station, this says the opposite. This says that it actually
23	MR. GROSSMAN: All right. Let's mark it since	23	bears an unexpected but welcome similarity to our
	-		
24	we're referencing it, and apparently, we're not gee.	24	understanding of urban NO2 data: nence we suddest that the
24 25	we're referencing it, and apparently, we're not gee, I know I've seen it before. Hold on a second.	24 25	understanding of urban NO2 data; hence we suggest that the Janssen method may be more applicable to smaller plumes than
	we're referencing it, and apparently, we're not gee, I know I've seen it before. Hold on a second.	24 25	Janssen method may be more applicable to smaller plumes than

	Page 74		Page 76
-		-	
1	has been recognized hitherto.	1	MR. GROSSMAN: When you say his calculations, what
2	A Interesting you didn't read the last part of the last sentence: provided care is taken to use an	2	are you referring to? Is there a specific document you're looking at, or
4	appropriate, conservative value of alpha.	4	MR. GOECKE: No. I don't believe he's prepared
5	Q Okay.	5	any document.
6	A Now, somewhere else in this document they say that	6	MR. GROSSMAN: Oh, just in general from his
7	this agency doesn't accept the Janssen method for small	7	testimony?
8	plumes for urban sources. So I can't it's not at my	8	MR. GOECKE: From his testimony, yes.
9	fingertips, but I think you can find it.	9	MR. GROSSMAN: Okay.
10	Secondly, I want to comment on the scientific	10	BY MR. GOECKE:
11	nature of the statement. Sure, you can use the same	11	Q And correct me if I'm wrong. You haven't
12	framework to look at turbulence at different scales, but	12	provided you haven't given us any documents that shows
13	they're very careful in how they qualify this because they	13	your calculation or your estimate for one-hour NO2 levels,
14	recognize that there's a difference in the turbulence from a	14	have you?
15	plume that's way up in the air to something that's close to	15	A Do you have the slides from the last time? I
16	the ground and that's a smaller source. So that's why	16	think I gave a reference for the formula that I used.
17	they're talking about an appropriate, conservative value of	17	Q Yes.
18	alpha.	18	A It's not an unusual formula. It's fairly
19	So I don't think this changes a thing. I think	19	standard.
20	it's consistent with what I've said, that basically the	20	Q Yes.
21	physics of the atmosphere is the same in terms of the effect	21	A It's called the logarithmic profile, and it's a
22	of motions, but the scales are so different here. It's like	22	well-known fact that with greater roughness, the surface
23	comparing apples and oranges.	23	layer, the surface boundary layer is going to have slower
24	MR. GROSSMAN: I don't think alpha was defined in that paragraph. What is alpha?	24 25	wind speeds, period. Q Dr. Cole
25	that paragraph. What is alpha?	20	
	Page 75		Page 77
1		1	
1	THE WITNESS: Alpha is a constant that takes into	1	A And the reason for that is that when you have
2	THE WITNESS: Alpha is a constant that takes into consideration the plume height, the wind speed, the ozone	2	A And the reason for that is that when you have turbulence, that takes away from the forward kinetic energy
2 3	THE WITNESS: Alpha is a constant that takes into consideration the plume height, the wind speed, the ozone background, and the and the NO plus O3 rate constant.	2 3	A And the reason for that is that when you have turbulence, that takes away from the forward kinetic energy of the wind. It's simple physics. It's called the law of
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2 3 4 5	THE WITNESS: Alpha is a constant that takes into consideration the plume height, the wind speed, the ozone background, and the and the NO plus O3 rate constant. BY MR. GOECKE:	2 3 4 5	A And the reason for that is that when you have turbulence, that takes away from the forward kinetic energy of the wind. It's simple physics. It's called the law of conservation of energy. It's simple.
2 3 4 5 6	THE WITNESS: Alpha is a constant that takes into consideration the plume height, the wind speed, the ozone background, and the and the NO plus O3 rate constant. BY MR. GOECKE: Q But you agree that according to this, if you apply conservative values for alpha, however it's defined, you may	2 3 4 5 6	A And the reason for that is that when you have turbulence, that takes away from the forward kinetic energy of the wind. It's simple physics. It's called the law of conservation of energy. It's simple. Q And so your testimony here is that the gas station will be more turbulent than air coming out of a power plant
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	Page 78		Page 80
1	THE WITNESS: Mr. Goecke, you're	1	MR. GOECKE: If I may approach?
2	MR. GROSSMAN: No, no.	2	MR. GROSSMAN: Yes.
3	THE WITNESS: and Mr. Sullivan	3	BY MR. GOECKE:
4	MR. GROSSMAN: Dr. Cole	4	Q Slide 4 of 581 that I have, you have your
5	THE WITNESS: you're lucky you're not in my	5	logarithmic wind profile. I believe this is the slide you
6	class.	6	were referring to a moment ago.
	MR. GROSSMAN: Dr. Cole	-	A Yeah.
7		7	
8	THE WITNESS: All right. Okay.	8	MS. ADELMAN: What page is that?
9	MR. GROSSMAN: do you want to finish your	9	MR. GOECKE: It's on Slide 4 of Exhibit 581.
10	sentence?	10	MR. SILVERMAN: Can you put it on the screen?
11	THE WITNESS: This is the 36th session.	11	THE WITNESS: Okay.
12	MR. GROSSMAN: I know. I know, but do you want	12	BY MR. GOECKE:
13	to	13	Q Okay. And so zO, according to your calculations,
14	THE WITNESS: Okay.	14	•
15	MR. GROSSMAN: But it's not your 36th session	15	A That would be your, your roughness length.
16	THE WITNESS: Oh.	16	MR. SILVERMAN: Mr. Grossman, we don't have this.
17	MR. GROSSMAN: it's most of the rest of us, but	17	I wonder if we could put it on the screen, if Mr. Goecke has
18	in any event, did you want to finish your sentence?	18	it on his computer?
19	THE WITNESS: Yeah. Simply stated, again, is that	19	MR. GROSSMAN: Can it be put on the screen?
20	you're going to have a kind of chop at ground level,	20	MR. BRANN: I don't, I don't have
21	particularly with the surface roughness on that mall	21	MR. GROSSMAN: Let's see if we here.
22	surface, that induces very rapid mixing, more rapid mixing	22	MR. GOECKE: Do you have an extra copy?
23	at the surface with the car exhaust than you will with a	23	MR. GROSSMAN: Let's see if we here, it's in
24	power plant plume that's going to take a much longer period	24	this file, 581. Which slide are you talking about?
25	of time, and that's exactly why, that's exactly why that	25	MR. GOECKE: Slide 4.
	Page 79		Page 81
1	Page 79 statement in the Environmental Agency report is qualified.	1	Page 81 MR. GROSSMAN: Slide 4. Okay.
1		1	
	statement in the Environmental Agency report is qualified.		MR. GROSSMAN: Slide 4. Okay.
2	statement in the Environmental Agency report is qualified. And I just want to repeat that they haven't come up with a	2	MR. GROSSMAN: Slide 4. Okay. THE WITNESS: So BY MR. GOECKE:
2 3	statement in the Environmental Agency report is qualified. And I just want to repeat that they haven't come up with a method in that paper at all. They're just saying, gee, this	2 3	MR. GROSSMAN: Slide 4. Okay. THE WITNESS: So
2 3 4 5	statement in the Environmental Agency report is qualified. And I just want to repeat that they haven't come up with a method in that paper at all. They're just saying, gee, this might be an avenue to explore, it looks like good news, it might make things easier, but it doesn't say it will make,	2 3 4	MR. GROSSMAN: Slide 4. Okay. THE WITNESS: So BY MR. GOECKE: Q We're waiting for everyone to
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		1	
	Page 82		Page 84
1	roughness length which is a characteristic it's that	1	numbered. The original one had handwritten numbers, page
2	point, to be specific, z sub O or the surface roughness	2	numbers.
3	element is that point at which the below that point you	3	MR. GROSSMAN: Yes, I'm looking at one
4	really don't have a mean wind speed. You have a lot of	4	handwritten, and the page 4 I have handwritten
5	turbulence, and when you reach that point, then you're	5	MS. ROSENFELD: It was updated subsequent to that,
6	dealing with an atmosphere which is, which is different.	6	handed in at the hearing when Dr. Cole testified.
7	So that it's well-known that this logarithmic	7	MR. GROSSMAN: Let's see.
8	profile explains the curve; so and let me clarify that	8	MS. ADELMAN: Has a colored picture on the front.
9	the only calculation I did was the curve on the extreme	9	MS. ROSENFELD: The first page
10	left, which I've enumerated here on the right side of the	10	MR. GROSSMAN: Let me see if we have do we
11	page.	11	have, do we have a
12	MR. GROSSMAN: Well, we must be looking at a	12	MS. ROSENFELD: The first page looks like this.
13	different slide, because mine says, big whirls, little	13	MR. GROSSMAN: I know, but do we have an exhibit
14	whirls. You said Slide 4, right?	14	number for the updated version?
15	MR. GOECKE: Slide 4, yes.	15	MS. ROSENFELD: It was just, came in, I think, as
16	MS. ADELMAN: Logarithmic wind is what you want.	16	581 and then new in parentheses.
17	MR. GROSSMAN: That's not	17	MR. GROSSMAN: Oh, I remember that picture, but
18	THE WITNESS: Is this what you're	18	let me see if so that was supposed to be substituted,
19	MR. GROSSMAN: That's not what's labeled 4 on	19	right?
20	Exhibit	20	THE WITNESS: Do you want to use this one?
21	THE WITNESS: Is this what you're	21	MR. GROSSMAN: No. Hold on one second, if you
22	MR. GOECKE: Yes.	22	would. Let me see if we have for some reason that didn't
23	MS. ADELMAN: It's page 3, Mr. Grossman.	23	get in. All right. All right. Maybe I thought this was
24	THE WITNESS: It's this, it's this one.	24	just a copy you were giving me and it needs, now it needs to
25	MR. GROSSMAN: It's page 3	25	be substituted in here, and we'll do that. All right. So
			<i>,</i> , , ,
	Page 83		Page 85
	-	1	-
1	MS. ADELMAN: Yes.	1	now, at least, I'm on the same page as everybody else.
2	MS. ADELMAN: Yes. MS. ROSENFELD: No. It's 4.	2	now, at least, I'm on the same page as everybody else. MS. ROSENFELD: Maybe we should label it 581(b).
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. ADELMAN: Yes. MS. ROSENFELD: No. It's 4. MR. GROSSMAN: but it's really Slide 4; is that what you're saying? MR. GOECKE: The version I have MR. GOECKE: The version I have MR. GOECKE: they weren't numbered. I think I've handwritten them in. MS. ADELMAN: Aren't there numbers? Mine has numbers. THE WITNESS: It's this, it's this one, Mr. Grossman. MR. GROSSMAN: All right. That's not what's on my copy. THE WITNESS: Okay. MS. ADELMAN: Page 4, my mistake. MR. GROSSMAN: Well, page 4 is not, that's not what's showing here. Let me see if we're talking about the same exhibit. Exhibit 581, right MS. ADELMAN: Right. MR. GROSSMAN: or is that 587? MS. ROSENFELD: There was a 581, and then it was updated the morning of the hearing. There was 581, new.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 now, at least, I'm on the same page as everybody else. MS. ROSENFELD: Maybe we should label it 581(b). MR. GROSSMAN: Let's see what, 581, well, there is no you mean (a) and (b); is that what you're saying? Well, the only trouble is, I guess it's been referenced here before as 581. So maybe the simplest thing, if everybody's agreeable, is just to substitute it. Is that MS. ROSENFELD: Yes. MR. SILVERMAN: Right. MS. ROSENFELD: Sure. MR. GROSSMAN: an agreeable way to do it? Okay. All right. So we'll substitute that 581. All right. So now I'm looking at the same logarithmic wind profile. All right. So is there a question pending, Mr. Goecke, regarding MR. GOECKE: There is no question pending. MR. GOECKE: So we may proceed? MR. GOECKE: So we may proceed? MR. GOECKE: Q And so at two meters then, what happens to the air, Dr. Cole? A Two meters of height?

1	Page 86		Page 88
	THE WITNESS: No, it's are you talking about	1	MR. GOECKE: Okay. Thank you.
2	two meters of height or two meters of surface roughness	2	THE WITNESS: You're exactly right.
3	element? Which are you talking about?	3	BY MR. GOECKE:
4	BY MR. GOECKE:	4	Q Okay. So based upon a z0 of two meters, what is
5	Q Two meters of height. Two meters	5	the wind speed at two meters above the
6	A I'm not clear on what you're saying. Are you	6	A It's going to be zero.
7	talking about if you look at the two-meter height, you	7	Q above the ground?
8	see three different curves with three different values of	8	A Right. It's going if you have at two meters z,
9	wind speed.	9	then the wind at that speed is going to be zero. The wind
10	Q No, I'm not talking about the graph, just two	10	speed will be zero.
11	meters, two meters above the surface of the gas station	11	Q Is that what you think is happening at the gas
12	queue.	12	station?
13	A Are you talking about this?	13	A I don't have exact values. I haven't gone out and
14	Q Yes.	14	measured anything at the gas station. So it could be the
15	A Okay.	15	one-meter curve; it could be the one-meter z-naught curve or
16	Q And on the right-hand side	16	the two-meter z-naught curve or I think the point is a
17	A Yeah.	17	general point
18	Q you said for 10 meters of height, and z0 equals	18	Q Okay.
19	two meters, right?	19	A that the bigger your surface roughness
20	A Okay.	20	elements, the slower is the wind speed. It's, it's pretty
21	Q Okay. What's the 10 meters of height?	21	straightforward.
22	A That's to see what the speed is at the top of this	22	Q Okay. And you said you haven't taken actual
23	chart.	23	measurements. Have you reviewed Mr. Sullivan's measurements
24	Q So this is to calculate the speed of the wind at	24	at the site?
25	10 meters of height?	25	A Yes, I have.
	Page 87		Page 89
1	-		
1	A Well, it gives you more information. If you use this equation, it gives you the way that the wind speed	1	Q And do you remember what those are?A Are you talking about the study that was done to
2	changes with height. So that at different for each of	3	look at the slope factors south of the ring road? Is that
4	these different surface roughness elements, z sub naught,	4	what you're talking
5	you have three different profiles. The bigger the point is,	5	Q Well, tell me what you recall.
	the bigger the choppier the air at the surface, the	6	-
	bigger the surface roughness elements, the slower the wind	-	A I hat's what I recall that the issue was whether
		7	A That's what I recall, that the issue was whether there would be cold-air drainage. He used a CALPLIFE model
7			there would be cold-air drainage. He used a CALPUFF model,
7 8	speed is going to be at any particular level, at least for	7 8 9	there would be cold-air drainage. He used a CALPUFF model, and in his view, he didn't see any evidence of drainage. In
7 8 9	speed is going to be at any particular level, at least for the	8 9	there would be cold-air drainage. He used a CALPUFF model, and in his view, he didn't see any evidence of drainage. In my view, I saw evidence of, in the data, of cold-air
7 8 9 10	speed is going to be at any particular level, at least for the Q Okay.	8 9 10	there would be cold-air drainage. He used a CALPUFF model, and in his view, he didn't see any evidence of drainage. In my view, I saw evidence of, in the data, of cold-air drainage from the ring road down to the, the nearby houses
7 8 9	speed is going to be at any particular level, at least for the Q Okay. A at least for the first 10 meters here.	8 9	there would be cold-air drainage. He used a CALPUFF model, and in his view, he didn't see any evidence of drainage. In my view, I saw evidence of, in the data, of cold-air drainage from the ring road down to the, the nearby houses there.
7 8 9 10 11	 speed is going to be at any particular level, at least for the Q Okay. A at least for the first 10 meters here. Q Okay. What's the wind speed at two meters? 	8 9 10 11	there would be cold-air drainage. He used a CALPUFF model, and in his view, he didn't see any evidence of drainage. In my view, I saw evidence of, in the data, of cold-air drainage from the ring road down to the, the nearby houses
7 8 9 10 11 12	 speed is going to be at any particular level, at least for the Q Okay. A at least for the first 10 meters here. Q Okay. What's the wind speed at two meters? A Well, it depends on the curve. Are you talking 	8 9 10 11 12	there would be cold-air drainage. He used a CALPUFF model, and in his view, he didn't see any evidence of drainage. In my view, I saw evidence of, in the data, of cold-air drainage from the ring road down to the, the nearby houses there. Q Okay. A That's what I recall. I'm not sure that he
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7 8 9 10 11 12 13 14 15 16 17	 speed is going to be at any particular level, at least for the Q Okay. A at least for the first 10 meters here. Q Okay. What's the wind speed at two meters? A Well, it depends on the curve. Are you talking about z sub naught, or are you talking about the height? MR. GROSSMAN: If I understand correctly, is this correct that the z sub zero doesn't refer to a height but you have different curves 	8 9 10 11 12 13 14 15 16 17	there would be cold-air drainage. He used a CALPUFF model, and in his view, he didn't see any evidence of drainage. In my view, I saw evidence of, in the data, of cold-air drainage from the ring road down to the, the nearby houses there. Q Okay. A That's what I recall. I'm not sure that he what else you're driving at. Q Okay. What I'm driving at is air measurements he's taken above the surface on the mall site and how they might compare to your calculations here. Have you compared
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	speed is going to be at any particular level, at least for the Q Okay. A at least for the first 10 meters here. Q Okay. What's the wind speed at two meters? A Well, it depends on the curve. Are you talking about z sub naught, or are you talking about the height? MR. GROSSMAN: If I understand correctly, is this correct that the z sub zero doesn't refer to a height but you have different curves THE WITNESS: Yeah. MR. GROSSMAN: for different levels of z sub zero THE WITNESS: Right.	8 9 10 11 12 13 14 15 16 17 18 19 20 21	 there would be cold-air drainage. He used a CALPUFF model, and in his view, he didn't see any evidence of drainage. In my view, I saw evidence of, in the data, of cold-air drainage from the ring road down to the, the nearby houses there. Q Okay. A That's what I recall. I'm not sure that he what else you're driving at. Q Okay. What I'm driving at is air measurements he's taken above the surface on the mall site and how they might compare to your calculations here. Have you compared those at all? A No. Q Okay. Are you familiar, Dr. Cole, with the Glossary of Meteorology?
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1Q keep your copy?1attention towards the bottom of page 655 c2AOver my desk.2ARight.3QAnd how long have you had a copy?3Q for the definition of roughness length4AFor many years.3Q for the definition of roughness length4AFor many years.3Q for the definition of roughness length5QSo it's a reliable treatise or text in the5reads: A measure of the roughness of a surfa6industry?6fluid is flowing, defined as follows: z0 equal7APretty much so.7A8QOkay. I'd like to show you an excerpt of that8MR. SILVERMAN: Epsilon.9BY MR. GOECKE: Mr. Grossman, if we could have this10QEpsilon, thank you, over 3011marked, please, as well.11ARight.	oth and then pefficient. It ce over which a
2AOver my desk.2ARight.3QAnd how long have you had a copy?3Q for the definition of roughness lengt4AFor many years.3Q for the definition of roughness lengt5QSo it's a reliable treatise or text in the5reads: A measure of the roughness of a surfat6industry?6fluid is flowing, defined as follows: z0 equat7APretty much so.7A8QOkay. I'd like to show you an excerpt of that8MR. SILVERMAN: Epsilon.9BY MR. GOECKE:9BY MR. GOECKE:10MR. GOECKE: Mr. Grossman, if we could have this10QEpsilon, thank you, over 30	oth and then pefficient. It ce over which a
3QAnd how long have you had a copy?3Q for the definition of roughness length4AFor many years.4the parenthetical: also called roughness of5QSo it's a reliable treatise or text in the5reads: A measure of the roughness of a surfate6industry?6fluid is flowing, defined as follows: z0 equate7APretty much so.7A8QOkay. I'd like to show you an excerpt of that8MR. SILVERMAN: Epsilon.9BY MR. GOECKE:9BY MR. GOECKE:10MR. GOECKE: Mr. Grossman, if we could have this10QEpsilon, thank you, over 30	befficient. It ce over which a
 4 A For many years. 5 Q So it's a reliable treatise or text in the 6 industry? 7 A Pretty much so. 8 Q Okay. I'd like to show you an excerpt of that 9 document. 10 MR. GOECKE: Mr. Grossman, if we could have this 4 the parenthetical: also called roughness of a surface 5 reads: A measure of the roughness of a surface 6 fluid is flowing, defined as follows: z0 equal 7 A Epsilon. 8 MR. SILVERMAN: Epsilon. 9 BY MR. GOECKE: 10 Q Epsilon, thank you, over 30 	befficient. It ce over which a
5QSo it's a reliable treatise or text in the 6 industry?5reads: A measure of the roughness of a surfa 6 fluid is flowing, defined as follows: z0 equa 77APretty much so.7AEpsilon.8QOkay. I'd like to show you an excerpt of that 9 document.9BY MR. SILVERMAN: Epsilon.9BY MR. GOECKE: Mr. Grossman, if we could have this10QEpsilon, thank you, over 30	ce over which a
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9 document.9BY MR. GOECKE:10MR. GOECKE: Mr. Grossman, if we could have this10QEpsilon, thank you, over 30	
10 MR. GOECKE: Mr. Grossman, if we could have this 10 Q Epsilon, thank you, over 30	
11 marked, please, as well.11 A Right.	
12 MR. GROSSMAN: All right. I take it, these two 12 Q over 30 units, where z0 is the roug	hness length
13 pages are together somehow? 13 and epsilon is the average height of surface	e irregularities.
14 MR. GOECKE: There's two pages. There's the 14 So on your slide show, you calculated z0 to	be two meters.
15 MR. GROSSMAN: They're not stapled; that's why. 15 How high would the surface irregularities be	at the proposed
16 MR. GOECKE: They're not I'm sorry. Let me try 16 gas station?	
17 it this way. I gave you two duplicates instead of two. 17 A Okay. Let me qualify	
18MR. GROSSMAN: I'm sorry?18MS. CORDRY: Can you tell us where	e he, where he
19 MR. GOECKE: You have copies, two copies of one 19 calculated z0 as being two meters as oppo	sed to simply
20 document. 20 suggesting that as one	
21 MR. GROSSMAN: All right. 21 MR. GOECKE: Where who calculate	
22 MR. GOECKE: So if you'd give that, one of those 22 MS. CORDRY: Well, I'm seeing four	
23 to me. 23 height and z0 is two meters, but I don't see	
24 MR. GROSSMAN: Because it looks like just two, two 24 calculated the two meters as opposed to simple	
25 different pages.25 one, one of three inputs. Am I, am I missin	g something?
Page 91	Page 93
1 MR. GOECKE: All right. 1 MR. GOECKE: No. He hasn't showr	his math
2 MR. GROSSMAN: I'm sorry. What am I supposed to 2 MS. CORDRY: Well, I mean	nio nidin.
3 give you? 3 MR. GROSSMAN: No. 1 think	
	That's just an
4 MR. GOECKE: I'm sorry. I'm sorry. We just made 4 MS. CORDRY: that's not a math.	That's just an
4MR. GOECKE: I'm sorry. I'm sorry. We just made4MS. CORDRY: that's not a math.5copies this morning. So I'm trying to give everybody the5input.	-
4MR. GOECKE: I'm sorry. I'm sorry. We just made4MS. CORDRY: that's not a math.5copies this morning. So I'm trying to give everybody the5input.6same thing. So we've got6MR. GROSSMAN: I think what she's	saying is, your
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4MR. GOECKE: I'm sorry. I'm sorry. We just made 5 copies this morning. So I'm trying to give everybody the 6 same thing. So we've got4MS. CORDRY: that's not a math.5input.5input.6MR. GROSSMAN: Oh, I see.6MR. GROSSMAN: I think what she's7MR. GROSSMAN: Oh, I see.7question implied that he had calculated z0 to	saying is, your be two meters.
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4MR. GOECKE: I'm sorry. I'm sorry. We just made4MS. CORDRY: that's not a math.5copies this morning. So I'm trying to give everybody the5input.6same thing. So we've got6MR. GROSSMAN: I think what she's7MR. GROSSMAN: Oh, I see.7question implied that he had calculated z0 to8MR. GOECKE: the title page and9MR. GOECKE: Right.	saying is, your be two meters. t Ms. Cordry is
4MR. GOECKE: I'm sorry. I'm sorry. We just made4MS. CORDRY: that's not a math.5copies this morning. So I'm trying to give everybody the5input.6same thing. So we've got6MR. GROSSMAN: I think what she's7MR. GROSSMAN: Oh, I see.7question implied that he had calculated z0 to8MR. GOECKE: the title page and9MR. GROSSMAN: So it's a9MR. GOECKE: So you can use this9MR. GROSSMAN: whereas what	saying is, your be two meters. t Ms. Cordry is to be two
 4 MR. GOECKE: I'm sorry. I'm sorry. We just made 5 copies this morning. So I'm trying to give everybody the 6 same thing. So we've got 7 MR. GROSSMAN: Oh, I see. 8 MR. GOECKE: the title page and 9 MR. GROSSMAN: So it's a 9 MR. GOECKE: So you can use this 10 MR. GROSSMAN: I see. I see. I didn't realize 4 MS. CORDRY: that's not a math. 5 input. 6 MR. GROSSMAN: I think what she's 7 question implied that he had calculated z0 to 8 MR. GOECKE: the title page and 9 MR. GROSSMAN: So it's a 9 MR. GOECKE: So you can use this 10 MR. GROSSMAN: I see. I see. I didn't realize 11 MR. GROSSMAN: I see. I see. I didn't realize 	saying is, your be two meters. t Ms. Cordry is to be two
 4 MR. GOECKE: I'm sorry. I'm sorry. We just made 5 copies this morning. So I'm trying to give everybody the 6 same thing. So we've got 7 MR. GROSSMAN: Oh, I see. 8 MR. GOECKE: the title page and 9 MR. GROSSMAN: So it's a 9 MR. GOECKE: So you can use this 10 MR. GOECKE: So you can use this 11 MR. GROSSMAN: I see. I see. I didn't realize 12 that. Okay. 4 MS. CORDRY: that's not a math. 5 input. 6 MR. GROSSMAN: I think what she's 7 question implied that he had calculated z0 to 8 That was the implication of your question 9 MR. GOECKE: Right. 10 MR. GROSSMAN: I see. I see. I didn't realize 11 saying is that the witness didn't assume z0 12 meters; he just gave that as one of the value 	saying is, your be two meters. t Ms. Cordry is to be two les
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	Page 94		Page 96
1	than I just wanted to make sure I was accurately	1	MR. GROSSMAN: First of all, let's answer. What
2	understanding the objection, and he's going to rephrase his	2	would be three meters?
3	question.	3	THE WITNESS: If you assumed a surface roughness
4	THE WITNESS: Okay.	4	of .1 meter
5	BY MR. GOECKE:	5	MR. GROSSMAN: Okay.
6	Q And so the surface irregularities we're talking	6	THE WITNESS: okay, according to this
7	about at the gas station queue are automobiles mostly,	7	MR. GROSSMAN: A z0 of .1 meter, yes.
8	correct?	8	THE WITNESS: Yes. According to this equation, z
9	A Automobiles, trucks, there are buildings. If you	9	naught would be 30 times .1 I'm sorry. That's not right.
10	put in a	10	Wait a minute. Wait. Wait. Wait. Wait. Epsilon would
11	Q There are buildings in a gas queue?	11	be wait a minute.
12	A Excuse me. There are buildings in the area which	12	MR. GROSSMAN: While he's calculating, it occurred
13	affect the turbulence regime in the gas station. There's a	13	to me, does anybody recall from the testimony earlier
14	wall, and there's two buildings surrounding this area. I'm	14	whether or not which page references were being used for
15	going to finish my statement. Also, also, when you build a	15	Exhibit 581? Were they the handwritten page references? So
16	gas station, is there not a structure in a gas station? Are	16	before I just automatically substitute something, maybe I
17	there not trucks?	17	should do an (a) and a (b) for 581, because I'm not sure
18	Now, let me clarify that this diagram was I	18	what you referenced
19	didn't make any representation of which surface roughness,	19	MS. ROSENFELD: Oh, we were referencing the 581
20 21	if any of these, represents the gas station. My reason for putting in this diagram was to show the principle that wind	20 21	that has the colored pictures on the front page MR. GROSSMAN: On the front. Well, that would
		21	be
22 23	speeds decrease. So if you have a .1 meter and then you compare it to one meter, you're going to see slower wind	22	MS. ROSENFELD: which is the exhibit that has
23 24	speeds. That was the purpose of this.	_	the
25	Q If you were to apply the formula on page 655, what	25	MR. GROSSMAN: Typed
	Page 95		Page 97
1	would epsilon be? What would be the average height of	1	THE WITNESS: Okay.
2	surface irregularities be?	2	MS. ROSENFELD: typed
3	A I don't know. I haven't measured it. I don't	3	MR. GROSSMAN: numbers.
4	know how high that structure is. You got a wall. You got	4	MS. ROSENFELD: numbers on the bottom
5	buildings. You got big trucks.	5	right-hand
6	Q If we assume two meters for zO, how high would	6	MR. GROSSMAN: So you're sure that all of the
7	epsilon well, what number would epsilon need to be?	7	testimony concerned 581 with the typed numbers
8	A So would be 60 meters, I believe.	8	MS. ADELMAN: Yes.
9	Q And how many feet is that?	9	MR. SILVERMAN: Yes.
10	A It's 180 feet approximately.	10	MR. GROSSMAN: as opposed to
11	Q Okay. So in order to get, for a height TM for	11	MS. ROSENFELD: Yes. We handed that out first
12	a 10-meter height and have a zO of two meters, you would	12	0
13	need an average height of surface irregularities of over 180 feet?	13	MS. ADELMAN: Yes. MR. SILVERMAN: Yes.
14 15	A Well, according to this equation	14	MR. SILVERMAN: Yes. MS. ROSENFELD: and used that as a reference.
16	Q According to this equation.	15 16	MS. ROSENFELD and used that as a reference. MR. GROSSMAN: Okay. All right. So we can
17	A and as I said, as I said, this is not meant to	17	substitute it then. Okay.
18	replicate the gas station but to show the principle. So,	18	THE WITNESS: So with a, if this equation applies,
19	for example, at .1 meter, the height would be what? Point	19	assuming that it's correct, the epsilon or the height of the
20	one meter, .1 meter, how would that work? Someone do the	20	irregularity for a .1 meter would be three meters. So
21	math. Point one meter equals 30. So that would be three	21	you're dealing with a truck or maybe a big SUV or as I
22	meters.	22	said, there's going to be structures with this gas station.
23	MR. GROSSMAN: What would be three meters?	23	MR. GROSSMAN: Mr. Goecke, where is this all
24	THE WITNESS: The surface roughness, according to	24	getting me?
24 25	THE WITNESS: The surface roughness, according to this equation and there seems to be a footnote	24 25	getting me? MR. GOECKE: That he's overestimated the

	Page 98		Page 100
1	turbulence at the gas station, because the average surface	1	MR. GOECKE: No.
2	irregularity is not over 180 feet.	2	MR. GROSSMAN: Okay.
3	MR. GROSSMAN: That assumes that he was suggesting	3	MR. GOECKE: No.
4	a z0 value of two meters as opposed to suggesting a general	4	MR. GROSSMAN: All right. So let's return to that
5	diagram of what the different lengths of z0 would result in,	5	objection issue. Do you still retain that objection given
6	which is what he's testified to now, because he does have	6	the limited
7	one of the z0 values on his chart on page 4 of Exhibit 581	7	MS. CORDRY: Well, I suppose, reading it for those
8	is z0 equals 0.1 meters. So it's not, they're not all	8	three sentences, which, as Dr. Cole has indicated, are
9	his only reference is not to a z0 of two meters.	9	somewhat of a truism, as qualified, if that's what they had
10	MR. GOECKE: Okay. We'll move along.	10	to put this whole exhibit in for, then fine, I don't object
11	MR. GROSSMAN: Okay.	11	to those three sentences.
12	BY MR. GOECKE:	12	MR. GROSSMAN: All right. Anybody else have any
13	Q Dr. Cole, when you testified before, you predicted	13	objection at this point for me to rule on, or are we just
14	that the 98th percentile for one-hour NO2 concentrations	14	no.
15	near the gas station, the highest level would be 287	15	MR. SILVERMAN: Just so that
16	micrograms per cubic meter. Do you stand by that testimony?	16	MS. CORDRY: As long as it's admitted only for the
17	A I'm not sure what testimony you're referring to.	17	purpose of those sentences.
18	You'd have to show me exactly where that was.	18	MR. SILVERMAN: Those three sentences.
19	Q Do you have an opinion about what the 98th	19	MR. GROSSMAN: I presume that's correct. It was a
20	percentile one-hour NO2 heights level would be near the gas	20	cross-examination exhibit. Is that correct, Mr. Goecke?
21	station?	21	We're only your only reason for marking Exhibit 609 was
22	A What I said last time was that there is a distinct	22	for that reference that you used already in
23	possibility or probability that it could exceed the	23	cross-examination, those few sentences?
24	standard. I'll stand by that. What I said last time was	24	MR. GOECKE: Yes.
25	there's a distinct possibility that the gas station at peak	25	MR. GROSSMAN: Okay. And so I would say the same
_	Dara 00		
	Page 99		Page 101
1	periods could result in concentrations that were above the	1	
1 2		1	
	periods could result in concentrations that were above the		applies to 610, as that limited purpose of well, I'm not
2	periods could result in concentrations that were above the one-hour NO2 standard. So it was a, not a definitive	2	applies to 610, as that limited purpose of well, I'm not sure. All right. Let's leave 610 out there for a minute
2 3	periods could result in concentrations that were above the one-hour NO2 standard. So it was a, not a definitive answer. It was not a numerical answer. It was a statement	2 3	applies to 610, as that limited purpose of well, I'm not sure. All right. Let's leave 610 out there for a minute and see if that has any bearing on this, but so the
2 3 4	periods could result in concentrations that were above the one-hour NO2 standard. So it was a, not a definitive answer. It was not a numerical answer. It was a statement of distinct possibility, which I will stand behind. If	2 3 4	applies to 610, as that limited purpose of well, I'm not sure. All right. Let's leave 610 out there for a minute and see if that has any bearing on this, but so the objection essentially is, by the opposition, is withdrawn to
2 3 4 5	periods could result in concentrations that were above the one-hour NO2 standard. So it was a, not a definitive answer. It was not a numerical answer. It was a statement of distinct possibility, which I will stand behind. If you're talking about	2 3 4 5	applies to 610, as that limited purpose of well, I'm not sure. All right. Let's leave 610 out there for a minute and see if that has any bearing on this, but so the objection essentially is, by the opposition, is withdrawn to 609.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	periods could result in concentrations that were above the one-hour NO2 standard. So it was a, not a definitive answer. It was not a numerical answer. It was a statement of distinct possibility, which I will stand behind. If you're talking about Q And so you don't have a specific number that you're, that you're estimating A No. Q or modeling or calculating? A The 287, if you're referencing something specific, I don't know what it is. Q Okay. MR. GOECKE: Can we take a short break, Mr. Grossman? I think I'm almost done. MR. GROSSMAN: Okay. We'll break until 12:00 noon. I have good news for you, Mr. Silverman. They have chicken livers for lunch. MR. SILVERMAN: Oh, no. (Whereupon, at 11:58 a.m., a brief recess was taken.) MR. GROSSMAN: Let's go back on the record then. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 applies to 610, as that limited purpose of well, I'm not sure. All right. Let's leave 610 out there for a minute and see if that has any bearing on this, but so the objection essentially is, by the opposition, is withdrawn to 609. MS. CORDRY: Well, it's withdrawn to the extent of the sentences that were read into the record MR. GROSSMAN: Right. MS. CORDRY: period. MR. GROSSMAN: And that's the only purpose for which they're seeking to use it. MS. CORDRY: Yes, I understand. MR. GROSSMAN: Right. MS. CORDRY: Yes, I understand. MR. GROSSMAN: Right. MS. CORDRY: Yes, I understand. MR. GROSSMAN: Right. MS. CORDRY: I understand. I just want to be clear that we are not agreeing to the admission of the exhibit as a whole. MR. GROSSMAN: Well, I wasn't going to just use this exhibit as my entire report and just MS. CORDRY: Well, that would be good, although might not be entirely bad in some respects, but that's okay. MR. GROSSMAN: All right. All right. BY MR. GOECKE:

1 words, have you looked at the EPA website, showing this 1 MS. ROSENFELD: Mr. Grossman 2 information? 3 A Yes, I have. 2 THE WITNESS: I am not an attorney. 3 A Yes, I have. 3 MR. GROSSMAN: Yes. 3 MR. GROSSMAN: Yes. 4 Q And did you look at that before you reached your 5 didn't have an opinion on that. I don't think he said he 6 one-hour NO2 standard? 4 MS. ROSENFELD: Yes. If I may, I think he said he 7 MR. GROSSMAN: He said distinct possibility. 4 MS. ROSSMAN: No. I think he I don't agree 8 didn't say likely. 9 mow. He said, if I recall, he said he was afraid he was 10 Q A distinct possibility. 9 now. He said, if I recall, he said he was afraid he was 11 A I'm sorry. Could you repeat your question 11 as a, as the standard. 12 Q Sure. 13 MR. GROSSMAN: That's my recollection. 14 THE WITNESS: All right. I am going to state for 15 15 station has a distinct possibility of exceeding the one-hour 14 THE WITNESS: All right. I am going to state for 15 the record that I believe that is a legal		Page 102		Page 104
 2 billion standard, not the, well call it the Sysev@Cordy 3 MR. GOECKE: The 2013 4 MR. GOECKE: The 2013 5 MR. GOECKE: The 2013 6 MS. ROSENTELD: Yes, please. 7 MR. GOECKE: Disyou guys need copies? 6 MS. ROSENTELD: Yes, please. 8 V MR, GOECKE: 9 WMR, GOECKE: 9 WMR, GOECKE: 10 Concentrations, correct? 7 THE WTINESS: I'm talking about the actual NAOS withero- the talanguage in the various guidance which repeatedly use. 9 the term that an applicant must demonstrate that a propose 10 Concentrations, correct? 11 A R. GROSSMAN: I'm just addressing the number. 12 A When did 1 form this conclusion? 13 A When did 1 form this conclusion? 14 A When did 1 form this conclusion? 15 Q Yes. 16 Correction of the conversion error that was made in 19 converting pbb 0 pb to micrograms per cubic meter. 19 fooking at successive - particularly by 10 looking at the information included on Exhibit 13 further evidence in the Fohymay rebutal report. 17 O Looking at the information included on Exhibit 25 ost, are you familiar with the data shown here? In other 26 conclusion that the gas station is likely to exceed the 31 mort, and diry ou look at that before you reached you 32 or you familiar with the data shown here? In other 34 A Yes, I have. 10 A RGOSSMAN: He said distinct possibility. 11 MR. GOROSSMAN: He said distinct possibility. 12 MR. GOROSSMAN: He said distinct possibility. 13 MR. GOROSSMAN: He said distinct possibility. 14 MR. GOROSSMAN: He said distinct possibility. 15 MR. GOROSSMAN: He said distinct possibility. 16 MR. GOROSSMAN: He said distinct possibility. 17 MR. GOROSSMAN: He said distinct possibility. 18 MR. GOROSSMA	1	MR. GROSSMAN: I'm not sure what it is off the top	1	of it, you're actually talking about the 100-parts-per-
3 MR. GOECKE: The 2013		-		
4 MR. GROSSMAN: On, okay, Yes. 4 standard, is actually 50 to 85 parts per billion for NO2 5 MR. GROSSMAN: Ch, okay, Yes. 4 standard, is actually 50 to 85 parts per billion, for NO2 7 BY MR. GOECKE: out with the gas station is likely to exceed the 5 one-hou? You're talking about the standard and the information, correct? 10 Cast is your testimony, Dr. Cole, that you say you 5 the term that an applicant must demonstrate that a propose 10 Cast is your testimony, Dr. Cole, that you say you 5 the term that an applicant must demonstrate that a propose 10 Cast is your testimony, Dr. Cole, that you say you the term that an applicant must demonstrate that a propose 11 concentrations, correct? 11 MR. GROSSMAN: I'm just - my questio 12 A When did I form this conclusion? 14 A When did I form that conclusion? 14 14 A When did I form this conclusion? 15 14 B Statadard. 15 Correction on the conversion enror that was made in 15 EPA area-weis standard. 16 Correction on the conversion enror that was applicant was part per billion, but you did not acceept the ast anelapt ant accept that woll on taccept t				
5 MR. GOECKE: Do you guys need copies? 5 one-hour? You're talking about the actual NAAOS written-of 6 MS. ROSENFELD: Yes, please. 7 THE WITNESS: I'm talking about the standard and 8 Q So it's your testimony, Dr. Cole, that you say you 8 9 stand by today that the gas station is likely to exceed the 9 the tam that an applicant must demonstrate that a propose 10 EPA National Ambient Air Quality Standard for one-hour NQ2 1 THE WITNESS: I'm talking about the sectual NAAO 11 concentrations, correct? 1 MR. GROSSMAN: Right, but I'm just – my question 12 A When did I form that conclusion? 14 M. RegrossmAN: Right, but I'm just – my question 12 O Yes. 13 of a standard. 15 just addresses, which are you refering to as the standard 14 A When did I form that conclusion? 14 M. RegrossmAN: Right, but I'm just – my question 15 our versing opt to – ppt to micrograms per cubic meter. 10 post addresses, which are you refering to as the standard 14 A Vers, have. 14 Standard of the conversion error that was made in 16 Pea area-wide standard for NO2 onehour. 10 a didn't nave an oplicin ant didnes		MR. GROSSMAN: Oh. okav. Yes.		
6 MS. ROSENFELD: Yes, please. 6 100-parts-per-billion standard, is that correct? 7 BY MR. GOECKE: 7 THE WITNESS: I'm talking about the standard and at the language in the various guidance which repeatedly use: 9 tstand by today that the gas station is likely to exceed the 10 EPA National Ambink AT (volatily Standard for one-hour NO2) 10 and when did you form this conclusion? 11 and when did you form this conclusion? 12 and when did you form this conclusion? 13 a A when did I form that conclusion? 14 A When did I form that conclusion? 14 MR. GROSSMAN: Right, but I'm just - my question of the conversion error that was made in 10 converting pab to - pab to micrograms per cubic meter. 10 bi just addresses, which are you referring to as the standard is parts per billion, even thous it samewhere between 19 10 BE PA area-wide standard in N2 Cone-hour is somewhere between 19 10 bi just addresses, which area wide standard in N2 Cone-hour is somewhere between 19 10 and accept the last time, that the 18 10 converting pab to - pab to micrograms per cubic meter. 19 BC A micrograms per cubic meter. 19 BC A micrograms per cubic meter. 11 on add by our look at the before you reached your 10 MR. GROSSMAN: would have bear looking at the evidence in the aga station is likely to exceed the gas station is a distinct possibiliiy. 12		-		
9 BY MR. GOECKE: 7 THE WITNESS: Im taking about the standard and and standard and and and and standard and and and standard and and and and and and standard and and and and and and and standard and and and and and and and standard and and and and and and and and and an			_	_
g Q So it's your testimony, Dr. Cole, that you say you is the language in the various guidance which repeatedly use: g Stand by today that the gas station is likely to exceed the ite term that an applicant must demonstrate that a propose g A losidi twas a distinct possibility. ite term that an applicant must demonstrate that a propose g A losidi twas a distinct possibility. ite term that an applicant must demonstrate that a propose g A Mohen did you form this conclusion? ite term that an applicant must demonstrate that a propose g A When did I form that conclusion? ite term that an applicant must demonstrate that a propose g A When did I form that conclusion? ite term that an applicant must demonstrate that a propose g O revelow past base that and on ite torm that conclusion? ite term that an applicant must demonstrate that a propose g orderotion of the conversion error that was made in ite term that and and is 100 parts per billion, even though the actual NAAQI g ite term that and and is 100 parts per billion, but you did into accept that g orderotion that the gas station is likely to exceed the inderotion that the gas station is likely to exceed the g orderotin the adua station		-		
9 stand by today that the gas station is likely to exceed the IDEPA National Ambient Air Quality Standard for one-hour NO2 IDEPA National Ambient Air Quality Standard for One-hour NO2 one-hour is somewhere between IDEPA National Ambient IDEPA National Ambient IDEPA National Ambient Air Quality Standard for One-hour NO2 one-hour is somewhere between IDEPA National Ambient IDEPA National Ambient Air Quality Ambient Air Cardy National Ambient Air Ca				
10 EPA National Ambient Air Quality Standard for one-hour NO2 10 facility will not cause 11 concentrations, correct? 11 MR. GROSSMAN: I'm just addressing the number. 13 Q And when did you form this conclusion? 13 of a standard. 14 A When did I form that conclusion? 13 of a standard. 16 A By looking at successive - particularly by 16 because Dr. Breysse and MS. Cordry have put forward a 17 postilate that you did not accept the last time, that the correction of the conversion error that was made in 10 because Dr. Breysse and MS. Cordry have put forward a 17 postilate that you did not accept the last time, that the converting ppb to -pbb to micrograms per cubic meter. 19 50 and 85 parts per billion, even though the actual NAAQ 12 Thrte widence in the Fabruary rebutata report. 14 MR. GROSSMAN: 's so I just want to make sure I 14 Q Looking at the information included on Exhibit 24 understand which you're saying will be exceeded or may be 15 standard? 1 MS. ROSENFELD: Mr. Grossman 2 16 one-hour NO2 standard? MR. GROSSMAN: No I think he said he didn't accept				
11 Concentrations, correct? 11 MR_GROSSMAN: I'm just addressing the number, it is use a distinct possibility. 12 A I said it was a distinct possibility. 12 THE WITNESS: - or contribute to the exceedance of a standard. 14 A When did I form that conclusion? 14 MR_GROSSMAN: I'm just addresses, which are you referring to as the standard. 15 Q Yes. 15 just addresses, which are you referring to as the standard. 16 because Dr. Breysse and Ms. Cordry have put forward a los that would have been looking at the evidence in the February rebutia report. 19 50 and 55 parts per billion, even though the actual NAAQ 12 THE WITNESS: No, I - 23 written-out standard is 100 parts per billion, but you did not accept that - 12 G Noting at the information included on Exhibit 25 593, are you familiar with the data shown here? In other 24 11 words, have you looked at the EPA website, showing this 2 information? 3 MR. GROSSMAN: No. I + may. I think he said he 3 12 Q Standard? MR. GROSSMAN: Yes. 4 MR. GROSSMAN: Yes. 14 MR. GROSSMAN: No. I + that he gas station is likely to exceed the 3 6 idn't have an opinion on that. I don't think he said he 4 15 ornolusion that the gas station is likely				
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	Page 106		Page 108
1	The other question is beyond, I'm going to just say, it's	1	billion as the standard here
2	beyond my expertise.	2	THE WITNESS: This is
3	MR. GROSSMAN: Okay.	3	MR. GROSSMAN: for NO2 one-hour?
4	THE WITNESS: I think, I'm just you got a	4	THE WITNESS: In my opinion, when they do these
5	proposed gas station. You got methods being used.	5	when they look at applications, they're looking at 100 parts
6	MR. GROSSMAN: Well, when you say beyond your	6	per billion.
7	expertise, I'm not asking you	7	MR. GROSSMAN: Okay. All right. And to ease your
8	THE WITNESS: Because it's a legal	8	mind, Opposition, I'm not saying that I think that that's
9	MR. GROSSMAN: I'm not asking you for health	9	absolutely the standard that applies in this case
10	impacts. I'm just asking for the way that, based on your	10	MS. CORDRY: Well
11	expertise, would the EPA, how it applies its standards. And	11	MR. GROSSMAN: I am saying I want to understand
12	if I understood your testimony, you considered the EPA	12	what this witness is saying about what I'll call the
13	standard for one-hour NO2 to be the 100-parts-per-billion	13	Breysse/Cordry doctrine here
14	standard, is that correct?	14	MS. CORDRY: I am
15	THE WITNESS: For the purposes of this analysis.	15	MR. GROSSMAN: which I understand, it's your
16	Now, others may argue	16	statement based on the EPA administrator's statement in I
17	MR. GROSSMAN: I'm asking you what your opinion	17	recall the testimony very well.
18	is.	18	MS. CORDRY: I understand. I understand.
19	THE WITNESS: All right. What I'm saying is that	19	MR. GROSSMAN: I understand. So don't, you don't
20	I'm doing the analysis, looking for the potential for	20	have to get all
21	exceedances of 100 parts per billion.	21	MS. CORDRY: Our position has always been it's the
22	MR. GROSSMAN: Right. Okay.	22	peak anywhere in the area, whether the gas station is the
23	THE WITNESS: Now, it could be I'm going to	23	peak or not. So
24	qualify this a little bit to say that it's possible that if	24	MR. GROSSMAN: I understand. Believe me, I
25	one place is 100, that doesn't exclude the possibility of	25	remember the testimony quite well, and I just want to make
	Page 107		Page 109
_	Page 107		Page 109
1	health effects occurring at lower levels.		sure I understand this witness's position on it, and I
2	health effects occurring at lower levels. MR. GROSSMAN: Well, you're not an expert in	2	sure I understand this witness's position on it, and I understand that now also. Go ahead.
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	Page 110		Page 112
1	his data disks	1	MR. SILVERMAN: There you go.
2	A The software? I didn't see it.	2	MR. GROSSMAN: I can tell.
3	Q so that you could run the AERMOD program?	3	MS. ROSENFELD: That's right. I have
4	A I didn't see that.	4	Mr. Silverman's interest in mind here.
5	Q Okay. But as you testified, it is readily	5	MR. SILVERMAN: Always.
6	available?	6	MR. GROSSMAN: All right. I don't see why not.
7	A Right.	7	If it'll save some time, certainly so. It's well, that
8	Q It's available for free, in fact?	8	clock is a little bit wrong. It's actually 12:25 now, more
9	A Yeah.	9	or less. So we'll come back at 1:15.
10	Q You can download it from EPA's website?	10	MR. GOECKE: Okay. Thank you.
11	A Yeah, absolutely.	11	(Whereupon, at 12:25 p.m., a luncheon recess was
12	Q So, you could have taken the inputs that	12	taken.)
13	Mr. Sullivan provided you and ran the modeling yourself?	13	MR. GROSSMAN: We're back on the record. Any
14	A Yes, if I agreed with the inputs, which I don't.	14	redirect?
15	Q And you could have changed the inputs if you	15	MS. ROSENFELD: Yes, there is.
16	disagreed with them?	16	SURREBUTTAL REDIRECT EXAMINATION
17	A I'm not the applicant.	17	BY MS. ROSENFELD:
18	Q You could have changed	18	Q Dr. Cole, Mr. Goecke asked you questions about
19	A I am not the applicant. It is	19	your selection of the First Street monitor as the background
20	Q I understand that, but	20	monitor that you would recommend have been chosen and also
21	A the burden of proof is not on me.	21	questioned, in part, why you hadn't raised that issue in
22	MR. GROSSMAN: No, no, you're not, but you're	22	December, in your December testimony. Is there a reason, in
23	not	23	your mind, why you didn't raise it at that point in time?
24	BY MR. GOECKE:	24	A Well, it became particularly critical when
25	Q Thanks for your legal opinion.	25	after the rebuttal report was released, because that used
	Page 111		Page 113
1	-	1	
1	MR. GROSSMAN: you are not here to give a legal	1	the ozone limiting method. So it became particularly
2	MR. GROSSMAN: you are not here to give a legal opinion on who has the burden of proof. That's not your	1 2 3	the ozone limiting method. So it became particularly critical with regard to the NO2 issue, which, of course, is
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1	different times I have brought it with me but may not have	1	A No, because back then they were they hadn't
2	brought it today, but	2	used the ozone limiting method.
3	MR. GROSSMAN: What do the parties feel about	3	Q And I would have the same question for the
4	having that protocol in the record?	4	criteria that relates to having ozone monitoring year-round.
5	MR. SILVERMAN: I think we've heard about it.	5	Would that have been an important
6	MR. GROSSMAN: Pardon me?	6	A I'm sorry. If you could repeat that?
7	MR. SILVERMAN: I think we've heard all there is	7	Q Another factor that you considered was whether or
8	to hear. I don't think that it's going to show anything	8	not the monitor would have ozone monitoring year-round.
9	new.	9	Would that have been an important factor in December of 2013
10	MR. GROSSMAN: Mr. Goecke.	10	when you testified?
11	MR. GOECKE: I think it should be admitted as an	11	A No, because the ozone limiting method was not
12	exhibit. We've talked about it a lot.	12	being used.
13	MR. GROSSMAN: That's true. I'd lean in that	13	Q Okay.
14	direction as well, and everybody's known about it all along;	14	MR. GOECKE: And if I could interrupt. He was
15	so it's no surprise to anybody.	15	going to I believe Dr. Cole was going to check at a break
16	MR. GOECKE: Right.	16	whether or not the Beltsville site had year-round monitoring
17	MS. CORDRY: I have about three pages from the	17	or not. He wasn't sure before. I don't know if he's had a
18	original version, and that looks like all I have of it at	18	chance to do that.
19	the moment.	19	MR. GROSSMAN: Have you had a chance to
20	MR. GROSSMAN: Okay.	20	MS. ROSENFELD: And that was my next question.
21	MR. GOECKE: We can submit a copy to you.	21 22	MR. GROSSMAN: Ah, okay. He jumped the gun. BY MS. ROSENFELD:
22 23	MR. GROSSMAN: Okay. Thank you. Just, you can e-mail if it's short enough, or not, transfer big files and	22	
23 24	then, you know, copy to the other side, and we can	23 24	Q Did you have a chance to go back, and could you go through the monitors?
25	MR. GOECKE: Sure.	25	A Yes. It has the, it has the full-year monitoring,
	Page 115		Page 117
1	Page 115 MS. CORDRY: Yes. I mean, we may also want to	1	
1	-	1	, i i i i i i i i i i i i i i i i i i i
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	Page 118		Page 120
1	mixture of those two things in the background air because	1	Q And there has been a good bit of discussion about
2	that will affect the chemistry. So if you have things on	2	dispersion analysis. Is there a reason why you've spent
3	the opposite side of the metropolitan area, for example,	3	time discussing that?
4	with a certain wind direction, you may have very different	4	A With regard to the ozone limiting?
5	NO2 concentrations and ozone concentrations at a site	5	Q Yes.
6	located where the Wheaton Mall is.	6	A The reason was that Mr. Sullivan, in his rebuttal
7	MR. GROSSMAN: Excuse me, Dr. Cole.	7	report, presented information suggesting that it would take
8	THE WITNESS: Yeah.	8	a very long time and a very long distance for the ozone and
9	MR. GROSSMAN: Could you take your jacket off that	9	NO to mix at the molecular level but that's not covered at
10	chair for me, please? It's just distracting to my point of	10	all in the ozone limiting method. The reason I commented on
11 12	view. Thank you. You can put it on the other chair, if you want.	11 12	that was that the studies which upon which he drew those conclusions were for power plant plumes and do not apply to
13	THE WITNESS: You didn't want to borrow it?	13	ground-level sources, where there's a lot more turbulent
14	MR. GROSSMAN: I don't think it'll fit. Thank	14	mixing at the scale that would disperse tailpipe emissions
15	you.	15	into the air.
16	BY MS. ROSENFELD:	16	Q So do I understand your testimony correctly that
17	Q We have spent a great deal of time talking about	17	regardless of whether that factor, the time factor for
18	various dispersion effects and how that has implications for	18	mixing and the distance factor for mixing, regardless of
19	the mixing of the ozone and NO. Does EPA guidance factor in	19	whether or not it's properly applied, it's not an
20	time or distance when computing that mixing under the ozone	20	application of the ozone limiting method itself?
21	limiting method?	21	A No, it's not part of the guidance.
22	A Well, Mr. Sullivan chose to use the ozone limiting	22	Q You testified that in your opinion there's a
23	method, and the ozone limiting method doesn't get into that.	23	distinct possibility that there would be an exceedance of
24	It just simply assumes that all of the, all of the ozone is	24	the 100-parts-per-billion NO2 one-hour standard. Can you
25	available for conversion without any delay time or lag time.	25	summarize the factors that support your conclusion in that
	Da. 140		
	Page 119		Page 121
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1 2	So if you're following that guidance for the OLM, there's no consideration of lag time between the emission and the	1 2	regard? MR. GOECKE: Objection. Asked and answered. He's
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	Page 122		Page 124
1	you up from their maximum value of about, I believe it's	1	MR. GROSSMAN: I'm trying to remember. Of course,
2	almost 160 or 157 of what they're showing in their Phase II,	2	we don't have a transcript of that.
3	I mean, their Stage II.	3	MR. GOECKE: Right.
4	Then I find it unbelievable that they actually	4	MS. HARRIS: Yes, we didn't have the report. It
5	used a down-scale factor in their Stage II and Stage III to	5	was just
6	get from MOBILE6 to MOVES based on one study, a	6	MR. BRANN: It wasn't a report.
7	non-published paper. And I have described previously, and	7	MS. CORDRY: Well
8	in the handouts today I've shown additional information from	8	MS. HARRIS: the PowerPoint that was mistaken
9	the Texas DEQ. Let's see. This was in today's the slide	9	for the report, and then I thought there was a conversation
10	number is all right. If we look at Slide No. 11	10	about getting the report in, which
11	BY MS. ROSENFELD:	11	MS. CORDRY: Okay.
12	Q Dr. Cole, you're reviewing from your notes. We	12	MS. HARRIS: never was submitted.
13	haven't handed anything out today.	13	MR. BRANN: It wasn't a report. The
14	A Oh, we haven't handed this out?	14	MR. GOECKE: That's right.
15	Q No.	15	MR. BRANN: authors never created a report.
16	A I thought we did.	16	MS. CORDRY: Okay.
17	Q I can hand out a copy of the slide you're	17	MS. ADELMAN: Well, is this not 603?
18	referencing.	18	MR. GROSSMAN: I'm going to err on the side of
19	MR. GROSSMAN: Is that in his original package?	19	letting more in
20	In	20	MS. CORDRY: Right.
21	MS. ROSENFELD: No. No.	21	MR. GROSSMAN: rather than less in here. So
22	MS. ADELMAN: Is this 603?	22	MS. CORDRY: Right.
23	MS. ROSENFELD: No.	23	MR. GROSSMAN: yes, it may be beyond the scope
24	MS. ADELMAN: No?	24	of your cross, but I'm going to let them go into it. I
25	MS. ROSENFELD: No.	25	just
	D (00		
	Page 123		Page 125
1	Page 123 BY MS. ROSENFELD:	1	Page 125 MS. CORDRY: Yes. Right.
1 2		1 2	-
	BY MS. ROSENFELD:		MS. CORDRY: Yes. Right.
2	BY MS. ROSENFELD: Q Dr. Cole, did you do some additional research on	2	MS. CORDRY: Yes. Right. MS. ADELMAN: Do you think it's 603?
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	Page 126		Page 128
1	MR. GROSSMAN: I overruled the objection to	1	paper that he relies on. So I think
2	give you a little more leeway	2	MR. GROSSMAN: Yes, I know. I'm just wondering if
3	MS. CORDRY: Okay.	3	this I want to get back to the fairness
4	MR. GROSSMAN: because I cannot, I cannot	4	MS. CORDRY: Right.
5	recall if it's beyond, but even if it is a little bit beyond	5	MR. GROSSMAN: issue if we're talking about
6	the scope of the cross, I'm going to let you do it.	6	additional research
7	MR. GOECKE: Thank you.	7	MS. CORDRY: Right.
8	BY MS. ROSENFELD:	8	MR. GROSSMAN: that was now done, and I just
9	Q And what did you learn?	9	want to be fair to both sides here in terms of what we're
10	A Well, I found another study from Texas, this one	10	talking about. So let's hear what it is, and then we'll
11	from a Texas environmental quality agency, which was from	11	decide whether or not it's something that should be
12	the Houston-Galveston area, different from the Dallas-Fort	12	excluded. So what are you talking about that you have
13	Worth	13	
14	MR. GOECKE: Well, I would object to this,	14	THE WITNESS: Okay. I'm talking about a study of
15	Mr. Grossman. We haven't seen a copy of this report that	15	the Houston-Galveston area by the Texas air quality
16	he's referring to now.	16	commission or council; no, it's DEQ. I'm sorry. Let me
17	MS. CORDRY: Well, that's where I go back to,	17	get this right.
18	Mr. Sullivan referred to a number of studies on the stand	18	MR. SILVERMAN: It's a commission.
19	that he had never provided to us, and at that point, it was	19	THE WITNESS: Commission? And this time it was
20	like, an expert doesn't have to provide everything he relies	20	for the
21	on. So	21	MR. GROSSMAN: Well, let's identify it further,
22	MR. GOECKE: No, that's not true.	22	and when did you find this and
23	MS. CORDRY: That is	23	THE WITNESS: Okay. I actually came across this
24	MS. ROSENFELD: That is true.	24	somewhat earlier and had forgotten about it, but it's
25	MR. GROSSMAN: Hold on one second, guys, one at	25	parallel, it shows very similar results
	Page 127		Page 120
	Page 127		Page 129
1	MS. CORDRY: that is exactly what was said	1	MR. GROSSMAN: First, let's identify exactly what
2	MS. CORDRY: that is exactly what was said about his reports.	2	MR. GROSSMAN: First, let's identify exactly what it is. You just
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	Page 130		Page 132
1	MR. GOECKE: No, we have not seen this document	1	THE WITNESS: Which?
2	before.	2	MR. GROSSMAN: This exhibit that's, that we now
3	MR. GROSSMAN: Has this been referenced in	3	have four pages of.
4	anything before?	4	MS. ROSENFELD: Dr. Cole was preparing a larger
5	MR. GOECKE: Not that I'm aware of.	5	PowerPoint with the expectation that he would be showing it
6	MS. CORDRY: Well, again I'd go back to	6	today. He was discouraged from introducing a lengthy new
7	MR. GROSSMAN: Well, hold on a second. Hold on.	7	exhibit
8	MS. CORDRY: Okay.	8	MR. GROSSMAN: Right.
9	MR. GROSSMAN: I'm going to mark it as an exhibit	9	MS. ROSENFELD: and this is an excerpt based on
10	subject to objection here, but I'm going to mark it as an	10	his research in follow-up to cross-examination questions the
11	exhibit so we have in the record what we're talking about.	11	last time he was on the stand.
12	Exhibit 613 is pages 10, 9, I'm sorry, pages 9 it's very	12	MR. GROSSMAN: I mean, I'm even, I'm a little
13	strange because the title appears to be on page 10 but then	13	hinky about introducing an exhibit like this in the, during
14	there's a page 9.	14	the redirect of a surrebuttal witness.
15	MR. GOECKE: Right.	15	MS. ROSENFELD: And I'm happy
16	MS. CORDRY: They just got copied in reverse	16	MR. GROSSMAN: I mean, that's, that's
17	order.	17	MS. CORDRY: I understand, but
18	MR. GROSSMAN: No, but they're numbered.	18	MR. GROSSMAN: what creates a problem for me.
19	MS. CORDRY: Right, I know. When we were putting	19	It's a little bit different if you've got, when you've got
20	it together, it got put in that order, but the actual title	20	the opportunity to introduce your responsive witness after
21	page is the one that's 10, and then it goes	21	it, but introducing a new, a new study that hasn't been
22	MR. GOECKE: So these aren't the numbers, the page	22	mentioned before makes me concerned. Let's hear what it is
23	numbers for the exhibit; you numbered them?	23	that you're trying to bring out, and then we'll then
24	MS. CORDRY: These are the page numbers for we	24	
25	had put together a larger exhibit, which we decided not to	25	MS. CORDRY: Right.
	Page 131		Page 133
1	-	1	, and the second s
1	put in. These are just those are page numbers from the	1	MS. ROSENFELD: I
2	put in. These are just those are page numbers from the larger exhibit that Mr. Cole, Dr. Cole had put together.	2	MS. ROSENFELD: I MR. GROSSMAN: so we have the exhibit in the
2 3	put in. These are just those are page numbers from the larger exhibit that Mr. Cole, Dr. Cole had put together. MR. GROSSMAN: Texas Implementation.	2 3	MS. ROSENFELD: I MR. GROSSMAN: so we have the exhibit in the record here or, you know, marked in the record and then we
2 3 4	put in. These are just those are page numbers from the larger exhibit that Mr. Cole, Dr. Cole had put together. MR. GROSSMAN: Texas Implementation. (Exhibit No. 613 was marked	2	MS. ROSENFELD: I MR. GROSSMAN: so we have the exhibit in the
2 3	put in. These are just those are page numbers from the larger exhibit that Mr. Cole, Dr. Cole had put together. MR. GROSSMAN: Texas Implementation. (Exhibit No. 613 was marked for identification.)	2 3 4	MS. ROSENFELD: I MR. GROSSMAN: so we have the exhibit in the record here or, you know, marked in the record and then we can decide. BY MS. ROSENFELD:
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1	Page 134		Page 136
1	Federal Highway Administration report by Claggett that I	1	THE WITNESS: Okay. Here's your answer.
2	testified about in December, those are three studies which	2	MR. GROSSMAN: Here's my answer?
3	come to the opposite conclusion of the study that	3	THE WITNESS: It's kind of cut off, but it says,
4	Mr. Sullivan quoted where he showed that he used that	4	HGB.
5	evidence from the, from the report, I'm going to pronounce	5	MR. GROSSMAN: What page am I looking at?
6	it wrong, Ozguven, the Ozguven report. That study had the	6	THE WITNESS: Page 11.
7	opposite finding in it, and he used it to apply a .7, what I	7	MR. GROSSMAN: Page 11.
8	call a scale-down factor, to multiply by emissions.	8	THE WITNESS: I'm sorry. It got cut off there.
9	MR. GROSSMAN: Right.	9	It says, HGB, which is Houston-Galveston, a Spanish word
10	THE WITNESS: So the point here is that, taking	10	with B, but it's the Houston-Galveston area, whereas the,
11	these three studies by government or quasi-government	11	page 9 is clearly the Dallas-Fort Worth, Texas, case. Now,
12	bodies, this evidence to me is more compelling than the	12	we can provide the report, the September 29th report in
13	evidence that Mr. Sullivan reported showing an opposite	13	full, which clearly shows that this is the Houston-Galveston
14	result, and he it's the first time in the rebuttal report	14	study and whereas the page 9 they may have been at the
15	that he used any correction factor.	15	same conference, but
16	MR. GROSSMAN: I'm having a little difficulty	16	MR. GROSSMAN: All right. Let me
17	determining, from looking at what you	17	THE WITNESS: probably were.
18	THE WITNESS: Okay.	18	MR. GROSSMAN: hear from Mr. Goecke now.
19	MR. GROSSMAN: submitted here, as to whether or	19	MR. GOECKE: Sure. So we have several concerns in
20	not these actually are two different things. They appear to	20	support of our objection. I mean, as Dr. Cole says, they
21	be from the same conference, both of them from this 19th	21	could have provided it, but they didn't, and they obviously
22	International Emission Inventory Conference in San Antonio	22	were contemplating relying on this as evidenced by the fact
23	on September 29, 2010, and how can I tell that what's on	23	that they compiled a lot of other documents and numbered
24	page 11 is actually not from the data you previously	24	them. So they absolutely could have provided it to us
25	testified about?	25	earlier. They did not.
2.5		25	
	Page 135		Page 137
1	THE WITNESS: Because if you look at page 9, the	1	On top of that, we don't have the full document;
2	study by Mr. Venugopal, if I'm saying that right, is based	2	so we can't properly cross-examine him, even if we were
3	on the Dallas-Fort Worth study, whereas the study by Chris	3	allowed to by you today. In contrast, the Raynor report
4	Kite here on page 11 of the, of the environmental, Texas	4	that Ms. Cordry was referring to, they were provided that.
5	environmental quality commission is for the	5	They had several days to review that, analyze it, and then
6			
U U	Houston-Galveston area.	6	cross-examine Mr. Sullivan. So this is
7	Houston-Galveston area. MR. GROSSMAN: And where does it say that on this	6 7	
		-	cross-examine Mr. Sullivan. So this is
7	MR. GROSSMAN: And where does it say that on this	7	cross-examine Mr. Sullivan. So this is MS. CORDRY: Actually, we weren't ever provided
7 8	MR. GROSSMAN: And where does it say that on this exhibit?	7 8	cross-examine Mr. Sullivan. So this is MS. CORDRY: Actually, we weren't ever provided it.
7 8 9	MR. GROSSMAN: And where does it say that on this exhibit? THE WITNESS: That's a good question.	7 8 9	cross-examine Mr. Sullivan. So this is MS. CORDRY: Actually, we weren't ever provided it. MS. ROSENFELD: We haven't received it.
7 8 9 10	MR. GROSSMAN: And where does it say that on this exhibit? THE WITNESS: That's a good question. MS. ROSENFELD: And, Mr. Grossman, looking at	7 8 9 10	cross-examine Mr. Sullivan. So this is MS. CORDRY: Actually, we weren't ever provided it. MS. ROSENFELD: We haven't received it. MS. CORDRY: You said you could provide it, and we
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7 8 9 10 11 12 13	MR. GROSSMAN: And where does it say that on this exhibit? THE WITNESS: That's a good question. MS. ROSENFELD: And, Mr. Grossman, looking at pages 10 and 11, you can see both of them have the same logo, the Texas Commission on Environmental Quality, TCEQ, in the upper left-hand corner of pages 10 and 11	7 8 9 10 11 12 13	cross-examine Mr. Sullivan. So this is MS. CORDRY: Actually, we weren't ever provided it. MS. ROSENFELD: We haven't received it. MS. CORDRY: You said you could provide it, and we never got it and we never cross-examined on it. So it was never sent over. MS. ROSENFELD: No.
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	Page 138		Page 140
1	MR. GOECKE: Yes. You know, it's apples and	1	I see little harm to excluding it, and I see potential
2	oranges what they're comparing on these two documents. On	2	prejudice including it at this stage, this late stage in the
3	page 9 it's the gasoline passenger vehicle; so it's gasoline	3	proceeding.
4	passenger vehicles. On page 11 it's the aggregate vehicle	4	So I'm going to exclude this. It's marked as an
5	category. That's a fleet mix. That includes both gas and	5	exhibit, but I'm writing down to it, not admitted. I don't
6	diesel. So the references here are apples and oranges, as I	6	think it's going to really add to the evidence anyway given
7	said a moment ago.	7	the fact that it's an aggregate and we have the two
8	To the extent they want to rely on the graph	8	conflicting studies we already talked about. I think that's
9	that's on page 9, as Dr. Cole said, that's already in the	9	sufficient to highlight the point, and there's no reason to
10	record. That was part of Exhibit 603, as Ms. Adelman points	10	potentially do something unfair to the applicant here. So
11	out. So they already have that portion into it. I just	11	I'm going to exclude it.
12	think it's prejudicial for us to have to respond to this at	12	MR. GOECKE: Thank you.
13	this time. Even if we could cross-examine him, we don't	13	MR. GROSSMAN: Okay.
14	have the entire document, and we may want to then, you know,	14	THE WITNESS: I would comment on the Fujita
15	further cross-examine him on the Fujita article that's	15	MR. GROSSMAN: No, we're not, we're not we
16	referenced here as well.	16	don't have to get into Fujita until it's, until it's, it
17	MR. GROSSMAN: All right. I'm going to get to the	17	comes up, if it comes up.
18	fairness thing in a second, but I do want to hear I	18	BY MS. ROSENFELD:
19	hadn't noticed the aggregate category point before you	19	Q Dr. Cole, you said you, you, your opinion was
20	mentioned it. So that's an interesting thing. Do you have	20	respect to the, whether or not the gas station would
21	a response to that, Ms. Rosenfeld? I mean, he's saying that	21	contribute, would cause or contribute to National Ambient
22	this doesn't actually show what it's purporting to show, in	22	Air Quality exceedances in the area. Would you consider the
23 24	any event, which is a light-duty non-diesel MS. ROSENFELD: That question is, I think, better	23 24	major roadways around the mall to be part of the area to be considered in that analysis?
24 25	directed at Dr. Cole.	24 25	A Yes, I would.
25		2.5	
	Page 139		Page 141
1	MR. GROSSMAN: All right. Dr. Cole.	1	MR. GROSSMAN: I'm sorry. Can you repeat that
2	THE WITNESS: Okay. I will agree that it's not an	2	question? I didn't quite follow that. Say that again.
3	avaat aampariaan It's not light duty, agulda't involva	-	quotion i dant quite fellon that ouy that ugain
5	exact comparison. It's not light-duty, couldn't involve	3	MS. ROSENFELD: Dr. Cole's been expressing his
4	light-duty trucks, for example, but I think that the fact		MS. ROSENFELD: Dr. Cole's been expressing his opinion as to whether or not the gas station would cause or
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4 5 6 7	light-duty trucks, for example, but I think that the fact that you've got such a wide difference between the MOVES, which is, in terms of grams per mile here, is 1.04 versus the light-duty, which is .66, it must be it's partially,	3 4 5 6 7	MS. ROSENFELD: Dr. Cole's been expressing his opinion as to whether or not the gas station would cause or contribute to exceedances of the National Ambient Air Quality. MR. GROSSMAN: Okay.
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	Page 142		Page 144
1	MS. CORDRY: But I think we're talking about the	1	response.
2	EPA analysis of an exceedance, not necessarily,	2	MS. CORDRY: We're back to the same question again
3	specifically, the different question of what is the	3	about, when the EPA is looking at causing or contributing to
4	neighborhood for the special exception process.	4	an exceedance and the way the standard applies and what's in
5	MR. GROSSMAN: No, but for	5	the standard, we're looking at it generally talks about
6	MS. CORDRY: Well	6	major roadways, and we're talking about, are these major
7	MR. GROSSMAN: my mind, I just want to know,	7	roadways we're not talking about going up, you know, 20
8	first of all, if we're talking about something outside	8	miles away and looking at major roadways, but
9	the	9	MR. GROSSMAN: I don't know. That was part of my
10	MS. CORDRY: Well, I think	10	question.
11	MR. GROSSMAN: the defined neighborhood.	11	MS. CORDRY: Well, that's what we were asking him.
12	MS. CORDRY: I think we	12	MR. GROSSMAN: What are we talking about, first of
13	MR. GROSSMAN: If you can find it there,	13	all?
14	Ms. Harris.	14	MS. CORDRY: Well, and that's where we're going
15	MS. HARRIS: Good luck, right?	15	back to, what the original modeling was, which included
16	MS. CORDRY: I'm not sure whether	16	those roadways.
17	MR. GROSSMAN: I can go back to the original staff	17	MS. ADELMAN: Which roadways?
18	report. I just can't recall whether the immediately	18	MR. GROSSMAN: The original modeling, meaning the
19	adjacent ones	19	November 2012
20	MS. HARRIS: It looks like the boundary is drawn	20	MS. ROSENFELD: In the November 2012.
21	inborn of	21	MS. CORDRY: Yes. Yes.
22	MS. CORDRY: Yes, I'm not sure we were trying	22	MR. GROSSMAN: Sullivan report?
23	since nobody was living in there, I don't think, in that	23	MS. CORDRY: Right. Right.
24	sense, we were trying to define that, but	24	MR. GROSSMAN: Okay.
25	MR. GROSSMAN: I mean, it might have been the	25	MS. ROSENFELD: This is a very short line of
	Page 143		Doro 145
	Tage 143		Page 145
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1 2		1 2	
	defined boundary might have been at the road, the roads, I		questioning and, I think, will quickly become clear.
2 3	defined boundary might have been at the road, the roads, I mean, included the mall and the area to the south and so	2	questioning and, I think, will quickly become clear. MR. GROSSMAN: All right. Go ahead. You got,
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	Page 146		Page 148
1	MR. GROSSMAN: This is the November 2012.	1	could cause or contribute to, and if where are the
2	MR. GOECKE: November 2012?	2	roadway levels.
3	MS. ROSENFELD: Yes.	3	MR. GROSSMAN: That wasn't really my question, but
4	MR. GOECKE: Okay.	4	
5	MR. GOECKE: All right. Thank you.	5	MR. GOECKE: No.
6	BY MS. ROSENFELD:	6	MS. CORDRY: Well, I thought it was your question.
7	Q And looking at the roadways, are there isopleths	7	I thought you were asking him about how he viewed the EPA
8	that show the maximum levels of one-hour NO2?	8	rule applying it and so forth.
9	A Yeah. This is the predicted 98th percentile	9	MR. GROSSMAN: I did, yes, but that wasn't that
10	one-hour NO2. The highest isopleths, both along the	10	didn't deal with the kind of geographical thing. I used the
11	roadways and adjacent to the proposed gas station site,	11	term area-wide because that was used in terms of
12	are the highest isopleth here, was reported here, 175	12	Dr. Breysse's testimony
13	micrograms per cubic meter. I would add, this is before the	13	MS. CORDRY: Right, but
14	correction was made in the background, which would raise	14	MR. GROSSMAN: as a term. That was
15	this substantially. On the other hand, to be fair, this was	15	MS. CORDRY: area-wide concentrations and then
16	the total conversion method. So but your question	16	the peak anywhere in the area. So okay.
17	relates to the roadways? Can you repeat your question?	17	MR. GROSSMAN: I mean, this issue has gone
18	BY MS. ROSENFELD:	18	MS. CORDRY: Okay.
19	Q Are the maximum levels on the roadways also	19	MR. GROSSMAN: been gone over to a
20	governed by the NAAQS?	20	fare-thee-well. You don't have to
21	A Yes.	21	MS. CORDRY: All right.
22	Q And in subsequent reports did Mr. Sullivan include	22	MS. ROSENFELD: Mr. Grossman
23	maximum roadway	23	MR. GROSSMAN: go over it. It wasn't subject
24	MR. GOECKE: Objection. Leading.	24	to the cross-examination.
25	BY MS. ROSENFELD:	25	MS. ROSENFELD: could we take a five-minute
	Page 147		Page 149
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1 2	Q levels?MR. GROSSMAN: Yes, that's, that is. Sustained.	1 2	break? MR. GROSSMAN: I thought we took that over lunch.
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	Page 150		Page 152
1	inventory	1	going to be backups and congretion, and the studies which
1	inventory.	1	going to be backups and congestion, and the studies which all of the studies show that when you have slower speeds,
2	MR. GROSSMAN: When you say a submission to the Hearing Examiner in 2013, what are you referring to?	2	that increases the emission rate for things like oxides of
4	THE WITNESS: I'd have to look at that document,	4	nitrogen but other pollutants as well, including particulate
5	in particular, but it was, it was, it was a discussion of	5	matter.
6	the modeling reports and the pieces that I felt were either	6	MR. GROSSMAN: Isn't this, once again I don't
7	inaccurate or missing from the	7	see this as responsive to the cross-examination. It's kind
8	MR. GROSSMAN: So it's one of your original	8	of a rehashing of much of the testimony that's already been
9	THE WITNESS: Yes.	9	in here.
10	MR. GROSSMAN: letters or whatever	10	MS. ROSENFELD: Okay. I just have one final
11	THE WITNESS: Yes.	11	question then.
12	MR. GROSSMAN: on that? Okay.	12	BY MS. ROSENFELD:
13	THE WITNESS: I can get you the exact date that	13	Q These factors that you've discussed and I'm not
14	I'm talking about.	14	going to go through them all but the monitor selection,
15	MR. GROSSMAN: All right. Well, go ahead then.	15	MOVES to MOBILE, et cetera, do those each act in isolation,
16	THE WITNESS: Okay. So missing sources. This is	16	or is there a cumulative effect of those different
17	a big mall, and the sources that were looked at in terms of	17	A Well, they would be
18	vehicle emissions, for example, were the west parking lot,	18	Q modeling issues?
19	the parking garage, the loading dock, the ring road, and the	19	A They would be, the factors I've discussed would be
20	queue and the roadways, but there are a lot of other	20	additive, number one, and a certain of these effects
21	commercial establishments in the mall which have loading	21	interact in a synergistic fashion i.e., the congestion
22	docks and which also have parking lots. We heard testimony	22	factor compounding the impact.
23	about	23	MS. ROSENFELD: I have no further questions.
24	MR. GROSSMAN: You don't think those are subsumed	24	MR. GROSSMAN: Any recross from the Coalition?
25	in general background?	25	MR. SILVERMAN: Just one.
	Page 151		Page 153
1			
1	THE WITNESS: No. We don't have any measurements	1	SURREBUTTAL RECROSS EXAMINATION
2	THE WITNESS: No. We don't have any measurements of background. I advocated measurements of background.	1 2	SURREBUTTAL RECROSS EXAMINATION BY MR. SILVERMAN:
2	of background. I advocated measurements of background.	2	BY MR. SILVERMAN:
2 3	of background. I advocated measurements of background. MR. GROSSMAN: No, but I mean, the monitoring	2 3	BY MR. SILVERMAN: Q The Fujita study, Dr. Cole, would you tell us
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1	MR. GROSSMAN: All right. Any recross from the	1	MR. GOECKE: Correct.
2	applicant?	2	MR. GROSSMAN: Okay.
3	MR. GOECKE: No.	3	MS. CORDRY: I actually would, not to be
4	MR. GROSSMAN: Okay. Well, congratulations.	4	difficult, but there was a couple there were two reports
5	THE WITNESS: Thank you.	5	that we, the Florida Pedestrian Planning, the Aging Driver,
6	MR. GROSSMAN: Have finished, and the final	6	that we did not we marked those, but we never actually
7	witness, too, at that. So thank you very much. I hear	7	admitted those, and I had said all along that was fine for
8	applause from the audience. All right. Shall we turn to	8	those not to be admitted. So
9	the objections?	9	MR. GROSSMAN: Okay.
10	MS. HARRIS: And, Mr. Grossman, before we get into	10	MS. CORDRY: that's fine.
11	them, or I had intended to mention one as we go down the	11	MS. ADELMAN: What numbers are they?
12	list, but in reviewing the list, we realized that there was	12	MS. ROSENFELD: 367(b)?
13	one report that was submitted that was not a complete	13	MS. CORDRY: (B) and (e), yes.
14	report, and so I want to make sure, when we get to that,	14	MS. ROSENFELD: Okay. So are
15	that we have an opportunity to discuss adding the making	15	MS. CORDRY: So I don't
16	it a complete report.	16	MR. GROSSMAN: We'll put them in one of those
17	MR. GROSSMAN: Okay. Well, let's get to that when	17	Florida sinkholes, right?
18	we get to it	18	MS. CORDRY: Fine.
19	MS. HARRIS: Okay.	19	MR. GROSSMAN: All right.
20	MR. GROSSMAN: and then you can raise the	20	MR. GOECKE: We have no objection to Ms. Cordry's
21	issue. I guess the easiest way to do this is to go back to	21	objection to her documents.
22	the resubmitted objections, which I had probably put	22	MS. HARRIS: Let the record reflect.
23	together and should be able to put my fingers on	23	MR. GROSSMAN: Turnabout is fair play, right?
24	momentarily, theoretically. All right.	24	MS. HARRIS: Right.
25	MS. ROSENFELD: And, Mr. Grossman	25	MR. GROSSMAN: All right.
	Page 155		Page 157
1		1	Ŭ
1	MR. GROSSMAN: Yes.	1	MS. HARRIS: So then the only exhibit in question
2	MR. GROSSMAN: Yes. MS. ROSENFELD: in an abundance of optimism	2	MS. HARRIS: So then the only exhibit in question or that I wanted to discuss briefly was Exhibit 353, which
2 3	MR. GROSSMAN: Yes. MS. ROSENFELD: in an abundance of optimism here, Mr. Goecke said he would take another look at the list	2 3	MS. HARRIS: So then the only exhibit in question or that I wanted to discuss briefly was Exhibit 353, which is the Michigan State placemaking study.
2 3 4	MR. GROSSMAN: Yes. MS. ROSENFELD: in an abundance of optimism here, Mr. Goecke said he would take another look at the list and perhaps remove some, and	2 3 4	MS. HARRIS: So then the only exhibit in question or that I wanted to discuss briefly was Exhibit 353, which is the Michigan State placemaking study. MR. GROSSMAN: All right. Hold on one second.
2 3 4 5	MR. GROSSMAN: Yes. MS. ROSENFELD: in an abundance of optimism here, Mr. Goecke said he would take another look at the list and perhaps remove some, and MR. GROSSMAN: Well, he did and he submitted the	2 3 4 5	MS. HARRIS: So then the only exhibit in question or that I wanted to discuss briefly was Exhibit 353, which is the Michigan State placemaking study. MR. GROSSMAN: All right. Hold on one second. Let me pull that out. That's Folder 5. Now, you realize,
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	Page 158		Page 160
1	have located it. Okay. Building Prosperous Places in	1	MS. HARRIS: And it's from the link that's
2	Michigan	2	referenced
3	MS. HARRIS: Right.	3	MS. CORDRY: Right.
4	MR. GROSSMAN: Understanding Placemaking	4	MS. HARRIS: on the second page of the report.
5	Values, Perceptions, and Barriers.	5	MR. GOECKE: Right. So just to build on what
6	MS. HARRIS: And, I mean, originally I was	6	Ms. Harris said, Mr. Grossman
7	intending to object that was on our original list	7	MR. GROSSMAN: Yes.
8	MR. GROSSMAN: Right.	8	MR. GOECKE: on the second page of Exhibit 353,
9	MS. HARRIS: because it's irrelevant and it has	9	there's, there's one, two, three, four, five bullet points,
10	to do with value of placemaking factors, not what a gas	10	and the bottom one says, please see our website for more
11	station does for property values, but we won't make that	11	information, and then it provides a link. And so this
12	argument, but I do I want to note and I want to submit	12	document that Ms. Harris is submitting now is what you get
13	that only a portion of that report was submitted, that the	13	when you go to that link
14	entire report was not submitted. So, in fairness, I think	14	MR. GROSSMAN: Okay.
15	that the entire study should be submitted, and I have copies	15	MR. GOECKE: and that document puts this
16	here; so we can just submit the other, the narrative portion	16	document in more context. And so
17	of the report.	17	MR. GROSSMAN: Okay.
18	MR. GROSSMAN: You mean it's even fatter than this	18	MR. GOECKE: whereas we were originally
19	thing, which is already	19	objecting to this document because Mr. Core was relying on
20	MS. HARRIS: It is.	20	it to support his argument that the gas station could
21	MS. CORDRY: Right, which was	21	devalue the properties in the neighborhood, we don't think
22	MR. GROSSMAN: pretty thick. It's a half-inch	22	that that's what this document says
23	thick anyway.	23	MR. GROSSMAN: Careful. Your you have a cord
24	MS. HARRIS: It is 36 pages. MS. ROSENFELD: Actually, I think the whole thing	24	5
25	MS. ROSENFELD. Actually, I think the whole thing	25	MR. GOECKE: and we were objecting to it, but
	Page 159		Dogo 161
	Tage 159		Page 161
1		1	
	is in there.	1	it probably goes more to the weight of supporting it than
2		2	it probably goes more to the weight of supporting it than its admissibility, and so we're okay with this document
	is in there. MR. GROSSMAN: Well, then maybe we're talking about		it probably goes more to the weight of supporting it than its admissibility, and so we're okay with this document coming in, with you giving it the weight it deserves,
2 3	is in there. MR. GROSSMAN: Well, then maybe we're talking about MR. BRANN: Oh, no. She's talking about	2 3	it probably goes more to the weight of supporting it than its admissibility, and so we're okay with this document coming in, with you giving it the weight it deserves, provided that it's put in its complete context, which this
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	Page 162		Page 164
1	State	1	MS. DUCKETT: Okay. Thank you.
2	MS. CORDRY: But, in other words, this is also	2	MS. CORDRY: Right. So there was an initial
3	part of the	3	report, and then there was a PowerPoint presentation done
4	MS. HARRIS: Land Policy.	4	about a month apart, and I can, I can send you a link to get
5	MS. CORDRY: you know, this is a document we	5	to both of them, though. And hold on. We're just looking
6	put in. This is another description of it, but this I	6	at this very quickly a moment. And how long is that
7	don't mind having them both come in, but I just want it to	7	document?
8	be clear that this is not supplanting this document that we	8	MS. ROSENFELD: No, this is only
9	had in.	9	MS. CORDRY: I think you may have the summary
10	MR. GROSSMAN: No	10	document there.
11	MS. CORDRY: Okay.	11	MS. HARRIS: They call it the summary document
12	MR. GROSSMAN: it's not supplanting it.	12	MS. CORDRY: Okay.
13	MR. GOECKE: It's not supplanting it.	13	MS. HARRIS: on the web, but it's not the
14	MR. GROSSMAN: It's a narrative portion	14	summary document.
15	MS. CORDRY: Right.	15	MS. CORDRY: Well, okay, because when I pull up
16	MR. GROSSMAN: that pertains to Exhibit 353.	16	the full report, it's 144 pages
17	MS. CORDRY: Right.	17	MS. ROSENFELD: Yes, it says, Summary Report.
18	MR. GROSSMAN: All right. So that's, this will be	18	MS. CORDRY: and then that's so we have a
19	called 353(a), and let me write this down on the exhibit	19	full document that was 144 pages. The one you have there,
20	list. We'll say, narrative relating to PowerPoint in	20	which is what did you say that was? Thirty-some-odd
21	Exhibit	21	pages?
22	MS. DUCKETT: Mr. Grossman, I'm confused.	22	MS. ADELMAN: Thirty-seven, yes.
23	MR. GROSSMAN: Hold on one second. So narrative	23	MS. CORDRY: And then there's the presentation,
24	353(a) is narrative relating to PowerPoint in Exhibit	24	which was the PowerPoint. So I'm let's see. So let me
25	353. All right.	25	go back to the summary version. We're just trying to make
	Page 163		Page 165
1	(Exhibit No. 353(a) was marked	1	Page 165 sure whether I mean, I'm not, I'm not really sure what
1 2	(Exhibit No. 353(a) was marked for identification.)	1 2	sure whether I mean, I'm not, I'm not really sure what since I don't know why they're introducing this particular
	(Exhibit No. 353(a) was marked for identification.) MS. DUCKETT: Okay. 353 was submitted by the		sure whether I mean, I'm not, I'm not really sure what since I don't know why they're introducing this particular version of it, I don't know whether it raises an issue for
2	(Exhibit No. 353(a) was marked for identification.) MS. DUCKETT: Okay. 353 was submitted by the opposition	2	sure whether I mean, I'm not, I'm not really sure what since I don't know why they're introducing this particular version of it, I don't know whether it raises an issue for us or not, but let me look at the summary version, see if
2 3	(Exhibit No. 353(a) was marked for identification.) MS. DUCKETT: Okay. 353 was submitted by the opposition MR. GROSSMAN: Yes.	2 3	sure whether I mean, I'm not, I'm not really sure what since I don't know why they're introducing this particular version of it, I don't know whether it raises an issue for us or not, but let me look at the summary version, see if that's what
2 3 4	(Exhibit No. 353(a) was marked for identification.) MS. DUCKETT: Okay. 353 was submitted by the opposition MR. GROSSMAN: Yes. MS. DUCKETT: and testified to by the	2 3 4	sure whether I mean, I'm not, I'm not really sure what since I don't know why they're introducing this particular version of it, I don't know whether it raises an issue for us or not, but let me look at the summary version, see if that's what MS. ROSENFELD: Is there a reason why you chose
2 3 4 5	(Exhibit No. 353(a) was marked for identification.) MS. DUCKETT: Okay. 353 was submitted by the opposition MR. GROSSMAN: Yes. MS. DUCKETT: and testified to by the opposition, but 353(a) is what the applicant has picked out	2 3 4 5 6 7	sure whether I mean, I'm not, I'm not really sure what since I don't know why they're introducing this particular version of it, I don't know whether it raises an issue for us or not, but let me look at the summary version, see if that's what MS. ROSENFELD: Is there a reason why you chose the summary version instead of the full report?
2 3 4 5 6 7 8	(Exhibit No. 353(a) was marked for identification.) MS. DUCKETT: Okay. 353 was submitted by the opposition MR. GROSSMAN: Yes. MS. DUCKETT: and testified to by the opposition, but 353(a) is what the applicant has picked out as to what they think was those portions?	2 3 4 5 6 7 8	sure whether I mean, I'm not, I'm not really sure what since I don't know why they're introducing this particular version of it, I don't know whether it raises an issue for us or not, but let me look at the summary version, see if that's what MS. ROSENFELD: Is there a reason why you chose the summary version instead of the full report? MS. HARRIS: Actually, I was not aware that there
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	Page 166		Page 168
1	MS. CORDRY: Yes.	1	we need both
2	MS. CORDET: Tes. MR. SILVERMAN: Yes.	2	MS. ROSENFELD: And why have both if you only need
3	MS. ROSENFELD: Yes. Mr. Core testified.	3	one?
4	MS. CORDRY: Yes. That's why we put it in there,	4	MS. CORDRY: Yes. I don't think we need the
5	because that's the part where it talks about it.	5	summary report in addition
6	MS. ADELMAN: Okay.	6	MR. GROSSMAN: Okay.
7	MR. GROSSMAN: Do you want us to take a break	7	MS. CORDRY: to the full report.
8	here, and you can look over the	8	MS. HARRIS: Well, I
9	MS. CORDRY: Right. Yes. Why don't	9	MR. GROSSMAN: All right. So
10	MR. GOECKE: Yes, please.	10	MR. BRANN: No, the summary and the full report
11	MR. GROSSMAN: full report since we've actually	11	UNIDENTIFIED SPEAKER: You need both?
12	truncated what we were going to have to do	12	MR. BRANN: that's what she's saying. You want
13	MS. HARRIS: Yes, my apologies. 1	13	
14	MR. GROSSMAN: with regard to objections.	14	MS. HARRIS: I do want both.
15	So	15	MR. BRANN: Okay.
16	MS. CORDRY: Right. Let's just take a couple	16	MS. HARRIS: I think we need it to put everything
17	minutes, and we can look at this.	17	in context.
18	MR. GROSSMAN: Yes. I'll come back at, it's	18	MR. GROSSMAN: All right. So
19	oh, we're way off now. That clock is now	19	MS. CORDRY: I will have to say, though, that
20	MS. SAVAGE: The clock is sick.	20	these documents were available to them Mr. Core put in
21	MS. ADELMAN: That's why I wondered if it had a	21	the document in advance
22	battery	22	MR. GROSSMAN: We don't have to fight about this,
23	MS. SAVAGE: It's very sick.	23	do we? I mean, what's the it is something that was put
24	······································	24	in in this form by Mr. Core. I just, do you really, is it
25	MR. GROSSMAN: It needs help.	25	really worth an argument about?
	Page 167		Page 169
1	MR. COLE: It's 2:42.	1	MS. CORDRY: It probably isn't, but you know, it's
2	MR. GROSSMAN: Yes.	2	like
3	MS. CORDRY: Yes, 2:42, we'll buy that.	3	MR. GROSSMAN: No but.
4	MR. GROSSMAN: So I'll come back in 10 minutes.	4	MS. CORDRY: But I must say, if it was, I wouldn't
5	Is that	5	
-			have any way of knowing it until I went through 144 pages of
6	MS. CORDRY: Okay. Yes, that should be fine.	6	this, but I'm sure it's fine because I'm sure the summary
6 7		6 7	
	MS. CORDRY: Okay. Yes, that should be fine. MR. GROSSMAN: does that sound about right? MR. GOECKE: Yes.		this, but I'm sure it's fine because I'm sure the summary presentation that they did was an accurate reflection of their report. So
7	MS. CORDRY: Okay. Yes, that should be fine. MR. GROSSMAN: does that sound about right? MR. GOECKE: Yes. MR. GROSSMAN: Okay. All right. We're in recess.	7	this, but I'm sure it's fine because I'm sure the summary presentation that they did was an accurate reflection of their report. So MR. GROSSMAN: Okay. So 3
7 8	MS. CORDRY: Okay. Yes, that should be fine. MR. GROSSMAN: does that sound about right? MR. GOECKE: Yes.	7 8	this, but I'm sure it's fine because I'm sure the summary presentation that they did was an accurate reflection of their report. So MR. GROSSMAN: Okay. So 3 MS. CORDRY: We'll expect full copies. We're not
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	Page 170		Page 172
1	course, we have not rescinded our objection to the rebuttal	1	Mr. Sullivan has come up with on his own. It may have some
2	report, but we do have written motions	2	merit. It may not. It may as it goes through. If he put
3	MR. GROSSMAN: Oh.	3	it out in a peer-reviewed report, it might be something that
4	MS. ROSENFELD: on those, and I assume you're	4	would be interesting. At this stage, it would appear to be
5	going to handle that separately. I just wanted the record	5	something similar to the kind of beta report that the API
6	to be clear	6	was trying to submit and so forth. Obviously, Stage III
7	MR. GROSSMAN: Well, I'm glad you actually	7	isn't even the OLM method. I think that's been conceded.
8	MS. ROSENFELD: that we have not	8	So we have two analyses that go beyond anything
9	MR. GROSSMAN: raised that. Let's discuss that	9	that the EPA has stated is available for use in their
10	now, the challenge to the rebuttal report, which I said we	10	regulatory processes, and again, I would remind you that, as
11	would wait until we heard from Dr. Cole before, before	11	our evidence as our argument indicated, what the Maryland
12	ruling on that. Do you wish to argue that further, or are	12	courts say is, they have retained the stricter standard for
13	you satisfied with your written presentations, which were	13	admissibility of evidence and that they do not wish to have
14	numerous?	14	these kind of issues debated and resolved, in the first
15	MS. CORDRY: Would it make sense to just have a	15	instance, by a court as opposed to debated and resolved in the field of scientific analysis. And it scenes to me that
16	no-more-than-five-page, just reference to the testimony, to supplement the discussion, or something like that?	16	the field of scientific analysis. And it seems to me that
17 18	MR. GROSSMAN: I'm not sure I understand. A	17	the EPA's determination of which models it accepts is a pretty good starting point for what is generally
18	five-page reference to the	18 19	scientifically reliable and generally scientifically
20	MS. ROSENFELD: Now, that we've had the benefit of	20	accepted.
21	the testimony on the report, you said	21	MR. GROSSMAN: Well, in fairness, it hasn't said
22	MR. GROSSMAN: You want to submit additional	22	that it won't accept the OLM method.
23	writing on this?	23	MS. CORDRY: No, no, but he is not using the OLM
24	MS. CORDRY: Yes.	24	
25	MR. GROSSMAN: No	25	MR. GROSSMAN: Well
	Page 171		Page 173
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1 2	MS. CORDRY: No? All right. MR. GROSSMAN: I don't think it's necessary.	1 2	MS. CORDRY: that's the point. He MR. GROSSMAN: Well, no, I don't think that is the
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	Page 174		Page 176
1	determination, in the first instance, precisely for, in some	1	jurisdiction. You know, people have reached out to them.
2	respects, the point that we have done, which is we spent	2	Even if we wanted them to opine on this, they haven't done
3	three days with Mr. Sullivan and, you know, a day and a half	3	it, they won't do it, and so that's not a basis to strike
4	with Dr. Cole, essentially going over new methods of	4	his report or his testimony.
5	analysis that, if they were not admitted, because they are	5	The second basis was that this is an improper
6	not EPA methods, we would not have been going through. So	6	application of the OLM methodology because that only applies
7	that part of what they said is to save time, to save the	7	to smokestack, emissions from power plants, not to vehicular
8	burden on the courts but also simply because it does not	8	emissions, and I'll talk about that in a moment.
9	want courts and juries and agencies to be making those	9	But then the third point was that there was no
10	determinations, in the first instance.	10	peer-review process or scrutiny of Mr. Sullivan's report.
11	So we think it's, we think it's very clear that	11	In terms of that, there's not a requirement that an expert
12	the report has not been able to show that it meets the	12	report be subjected to a peer-review process or be published
13	standard for Maryland law.	13	in order to be admitted or used in a quasi-judicial or
14	MR. GROSSMAN: All right. Ms. Duckett, do you	14	judicial hearing, and to the extent that there hasn't been
15	have anything to add to that?	15	any scrutiny or review of that document, I think that's just
16	MS. DUCKETT: No.	16	not correct.
17	MR. GROSSMAN: Mr. Silverman or Ms. Adelman?	17	As Ms. Cordry just said, there was five days of
18	MS. ADELMAN: No.	18	testimony from Mr. Sullivan and/or Dr. Cole dealing a lot
19	MR. GROSSMAN: No? Okay. Applicant, do you wish	19	with the OLM methodology. So it received a lot of
20	to respond?	20	attention; it received a lot of scrutiny. As you pointed
21	MR. GOECKE: Yes. Thanks, Mr. Grossman. So	21	out in one of the hearings, there's different benefits to
22	and there were several motions to strike Mr. Sullivan's	22	the different procedures, and whereas the EPA-permitting
23	report. I take it that this is only applying to the	23	process may require EPA guidance and oversight, here there's
24	Frye-Reed basis. I think you had denied all their other	24	the ability to cross-examine witnesses on the stand. So we
25	motions, but we and we had not filed a response to their	25	feel like there's been ample time and opportunity for them
	Page 175		Page 177
1	Frye-Reed motion because you had said we would take it up at	1	to cross-examine Mr. Sullivan and for their expert to opine
1 2	Frye-Reed motion because you had said we would take it up at the hearing. So my argument tailors to that, the bases, the	1 2	to cross-examine Mr. Sullivan and for their expert to opine on his methodology.
2	the hearing. So my argument tailors to that, the bases, the	2	on his methodology.
2 3	the hearing. So my argument tailors to that, the bases, the arguments they make in the Frye-Reed motion. MR. GROSSMAN: All right. Well, they did have other, other grounds in their earlier motions which, I	2 3	on his methodology. Taking that away, the last argument is whether or
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	Page 178	Page 18
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	has not been rejected by the scientific community in this context. In fact, when pressed today, you know, he testified at first that the Environment Agency report said that, based on Janssen, the plume, the dispersion, characteristics of a plume in a power plant would not apply to an urban environment, to this environment, but upon closer inspection that report did not say that. It said that it has, it's surprising, but it has similar characteristics to an urban environment and it may be appropriate provided you use other conservative methodology. Mr. Sullivan has testified extensively about the conservatism baked into his modeling process, and yes, that conservatism has been reduced over time, but when we compare the results that he's modeled for the proposed gas station and compare them to the 411 monitoring sites that are out there, it supports and corroborates his testimony. It shows that his MR. GROSSMAN: That's not really the issue. MS. ROSENFELD: This goes well beyond MR. GROSSMAN: We're talking about whether or not	 literature says it may be appropriate in this situation. My point before about comparing it to the 2013 data was merely to show, to the extent that conservatism is required when applying it, he's demonstrated, he's testified the evidence shows that he has still applied a conservative modeling analysis here. MR. GROSSMAN: Well, I'm not going to get into the issue of whether or not it's conservative or not, just on the evidentiary question. MR. GROSSMAN: I'm satisfied, looking at what the EPA has had to say and listening to the testimony of Mr. Sullivan and Dr. Cole, that number one, that the their literature; moreover, their touchstone, as they have said in their literature, is that the most accurate model possible be developed. The question of whether or not is a question of legitimate controversy between the experts here I do not find that this is a situation under which the case law in Maryland should bar the rebuttal evidence and the rebuttal report by Mr. Sullivan. This is a
24	MS. ROSENFELD: That's closing argument.	24 it, should be applied to most accurately model the
25	MR. GROSSMAN: there's an evidentiary issue	25 situation.
	Page 179	Page 18
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	here as to whether or not it's appropriate to admit the use of, well, the rebuttal report entirely, but the key is the OLM method and the modified OLM methods that Mr. Sullivan used. So the question here is, they raised an objection not just to the use of OLM but also to the modified versions of OLM that Mr. Sullivan used MR. GOECKE: Yes. MR. GOECKE: Right, and as I said before, he cited the references in his report that support his application to not using OLM within the first 40 meters, and as Dr. Cole admitted today, it takes time and distance for the conversion to take place. And whereas with a plume stack, when you've got this forceful jet of air being emitted at very high altitudes and causing much more turbulence and much more mixing to the molecular level, the air on the ground is nowhere near that speed, and the reports that Mr. Sullivan, or Dr. Cole, rather, had testified. So to the extent that Dr. Cole disagrees, his disagreement is not supported by the scientific literature, and it most certainly doesn't establish that it's been rejected by the scientific community to apply in this situation. So the scientific community has adopted OLM. It is something they apply. There's literature on this. The	 MS. CORDRY: But, Mr. Grossman, if the EPA says you apply the OLM method in a particular way, which does no include all of these refinements that Mr. Sullivan is coming up with, and Mr. Sullivan wants to make an argument that his way is better than that but that's not what the EPA says to use, it seems to me that is precisely the kind of extension of the law, the kind of novel argument that case law in Maryland says, it fails to recognize that laymen should not on a case-by-case basis resolve a dispute in the scientific community concerning the validity of a new scientific technique. And he is taking a method which the EPA simply says here's how you do it, and he's saying that's not good enough, I want to refine their method further, and it seems to me that is not something that is without dispute. MR. GROSSMAN: I don't find that this is a new scientific technique. I find that this is an application to the particulars of this particular situation. And one can argue about the merits of that application, but that's what it is. It's an argument between the experts as to the merits of the application. Now, I'm not arguing back and MS. CORDRY: Okay. MR. GROSSMAN: forth. I've already heard your argument and your response to what I said, but that's my ruling in the case. I am going to overrule that objection to the admission of the rebuttal report.

	Page 182		Page 184
1	MR. GOECKE: Thank you.	1	MR. GROSSMAN: It's the color purple, as you
2	MR. GROSSMAN: All right. Now	2	can make a movie out of it.
3	MS. CORDRY: There is just okay, not talking	3	MS. CORDRY: One is a reddish purple, and the
4	about that anymore.	4	other is a bluish purple. The bluer purple in any case,
5	MR. GROSSMAN: Thank you.	5	you can
6	MS. CORDRY: There's just a couple of just, one	6	MR. GROSSMAN: All right.
7	was the correction of that background argument report which	7	MS. CORDRY: you can tell the difference
8	we gave you before, and I'll go over that now. One other	8	between the two of them. And then the
9	matter, and this was this is just substituting a couple	9	MS. ROSENFELD: And what is this?
10	pages in, let's see, it would have been Exhibit it was	10	MR. GROSSMAN: So this is a substitute for
11	something that was put in as a black-and-white copy, and in	11	MS. CORDRY: This would be a substitute for the
12	black and white, you can't tell what the exhibit is doing.	12	last two pages in 453(a).
13	So I have the color pages to substitute there. This would	13	MR. GROSSMAN: Okay. So let me, sub for last
14	have been, let me see	14	MS. CORDRY: Right.
15	MR. GROSSMAN: While you're cogitating that, there	15	MR. GROSSMAN: two pages of Exhibit 453
16	was something that was e-mailed to me. How did we finally	16	MS. CORDRY: So one is squares and one is
17	address this highway capacity analysis results? Did we say	17	circles
18	that there wasn't a significant enough change that	18	MR. GROSSMAN: (a).
19	MR. GOECKE: I think that was the one I said that	19	MS. CORDRY: but until you see the reference at
20	it	20	the top
21	MR. GROSSMAN: I don't remember if this has	21	MR. GROSSMAN: Right.
22	gotten an exhibit number. Let's	22	MS. CORDRY: reference at the top, it shows
23	MS. HARRIS: I don't think it does, has.	23	squares for both of them; so you can't tell which was which.
24	MS. CORDRY: Well, it's 607. That was	24	MR. GROSSMAN: Right. I got you.
25	MR. GROSSMAN: Let's see. 607, report submitted	25	MS. CORDRY: All right. All right. Now, the
	Page 183		Page 185
1	Page 183 by Pat Harris, Intersection 16, yes. Okay.	1	-
1		1	-
	by Pat Harris, Intersection 16, yes. Okay.		other piece that I was going to do was to substitute in
2	by Pat Harris, Intersection 16, yes. Okay. MS. CORDRY: Right. Let me see.	2	other piece that I was going to do was to substitute in and I have shown this, the redlines and so forth to them.
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	Page 186		Page 188
1	everything done, miscommunicated and she copied, and what	1	somebody's going to supply Sarah with the narrative full
2	was placed into the record was an earlier version.	2	report of 353(b)?
3	MR. GROSSMAN: Okay.	3	MS. HARRIS: We will.
4	THE WITNESS: So I have given them both a redline	4	MR. GOECKE: We'll do that.
5	of the final version to the one that's in the record, which	5	MR. GROSSMAN: Okay. All right. Exhibit 431
6	has lots and lots and lots of changes, because it wasn't the	6	oh, wait a minute. We may have had it already, 430. Let's
7	right one	7	see.
8	MR. GROSSMAN: Right.	8	MS. ROSENFELD: What number is this again?
9	MS. CORDRY: and I've also given them a redline	9	MS. CORDRY: 431(c) it will now be.
10	of just the couple, three changes that were made to the	10	MS. ADELMAN: (C).
11	version that was e-mailed around.	11	MR. GROSSMAN: 431(c) is corrected version of
12	MR. GROSSMAN: Okay.	12	Exhibit 431(b). Okay.
13	MS. CORDRY: So	13	(Exhibit No. 431(c) was marked
14	MR. GROSSMAN: So what I should be doing is taking	14	for identification.)
15	what's in the record as 431(b)	15	MS. CORDRY: I think that's all I have for that.
16	MS. CORDRY: Yes.	16	All these copies of other things I made just in case I
17	MR. GROSSMAN: and substituting this summary	17	needed them, I don't need them. All right.
18	document	18	MR. GROSSMAN: Exhibit 453(a).
19	MS. CORDRY: We can either substitute	19	MS. CORDRY: And I believe you got copies of those
20	MR. GROSSMAN: or is that, is that	20	things that we, five pieces that we said would be, that are
21	MS. CORDRY: We can substitute. We can strike	21	our five that are coming in, and they had their three.
22	that one. We can give it a new exhibit number, whichever	22	MR. GROSSMAN: I believe that yours are already in
23	you feel is easiest to do.	23	there, and
24	MR. GROSSMAN: Well, this was referenced in the	24	MS. CORDRY: Yes, I think so. I just want to
25	course of	25	double-check and make sure
	Page 187		Page 189
1		1	, i i i i i i i i i i i i i i i i i i i
1 2	MS. CORDRY: Okay.	1	Page 189 MR. GROSSMAN: and theirs are as well, I believe. Is that
	MS. CORDRY: Okay. MR. GROSSMAN: of doing it; so maybe we should		MR. GROSSMAN: and theirs are as well, I
2	MS. CORDRY: Okay.	2	MR. GROSSMAN: and theirs are as well, I believe. Is that
2 3	MS. CORDRY: Okay. MR. GROSSMAN: of doing it; so maybe we should just give it a new	2 3	MR. GROSSMAN: and theirs are as well, I believe. Is that MS. CORDRY: Right, I think so.
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2 3 4 5	MS. CORDRY: Okay. MR. GROSSMAN: of doing it; so maybe we should just give it a new MS. CORDRY: Okay. MR. GROSSMAN: and although, I mean, the	2 3 4 5	MR. GROSSMAN: and theirs are as well, I believe. Is that MS. CORDRY: Right, I think so. MR. GROSSMAN: do you guys want to check to make sure?
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	Page 190		Page 192
1	MR. GROSSMAN: Well, Mr. Silverman says that was	1	The date on that one is May 21, 2008, and what was the date
2	one of his, but we know that 594 was your Bunn article.	2	on this one? The other one, 606(c), was February 2012.
3	MS. HARRIS: Yes.	3	Okay.
4	MR. GOECKE: Okay.	4	(Exhibit Nos. 606(c) and
5	MS. HARRIS: And then subsequently, the other Bunn	5	606(d) were marked for
6	article, that's 606.	6	identification.)
7	MR. GROSSMAN: Okay.	7	MS. DUCKETT: Mr. Grossman, I have a question.
8	MS. HARRIS: That's on a CD, which is, excuse me,	8	MR. GROSSMAN: Yes, ma'am.
9	606(a).	9	MS. DUCKETT: Are 594, 605, and 606 all the same
10	MR. GOECKE: And then there was another one that	10	documents?
11	you submitted too.	11	MS. HARRIS: No.
12	MR. GROSSMAN: Well	12	MR. GROSSMAN: No.
13	MR. GOECKE: 606(a)	13	MS. DUCKETT: Are they
14	MR. GROSSMAN: 606(a) is just	14	MR. GROSSMAN: Well, wait a minute. 594? Let's
15	MR. GOECKE: has two	15	see.
16	MR. GROSSMAN: a CD.	16	MS. DUCKETT: 594.
17	MS. HARRIS: Right.	17	MR. GROSSMAN: 594, received at hearing, 2009
18	MR. GROSSMAN: Do you have a hard copy?	18	article. That's the Bunn article, is 594, and
19	MS. HARRIS: No, I do have	19	MS. DUCKETT: 605 and 606.
20	MR. GOECKE: Yes, I think we've got hard copies.	20	MS. CORDRY: No. 1 think 594 and
21	So altogether there were three articles	21	MR. GROSSMAN: Well, it might be that 605(a) might
22	MS. CORDRY: Right.	22	be the same thing. It might have been that
23	MR. GOECKE: two that Dr. Bunn co-authored and	23	MS. CORDRY: Yes, 594 and 605
24	then the	24	MR. GROSSMAN: that I just called it something
25	MS. CORDRY: Right.	25	when I
	Decc 404		Dage 402
	Page 191		Page 193
1	, i i i i i i i i i i i i i i i i i i i	1	Page 193
1	MR. GROSSMAN: I don't remember seeing these to	1	MS. CORDRY: Right.
2	MR. GROSSMAN: I don't remember seeing these to hard copy. I remember seeing	2	MS. CORDRY: Right. MR. GROSSMAN: and Sarah called it something
2 3	MR. GROSSMAN: I don't remember seeing these to hard copy. I remember seeing MS. HARRIS: No, I don't think I	2 3	MS. CORDRY: Right. MR. GROSSMAN: and Sarah called it something close but not
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	Page 194		Page 196
1	MS. CORDRY: No. They're in the middle.	1	supposed to provide you with a full copy of that and never
2	MR. GROSSMAN: Well, I see the two pages. I'm	2	did, and I don't have that today, but I will submit that to
3	just saying	3	you.
4	MS. CORDRY: Right. Yes.	4	MR. GROSSMAN: Any problem with that, full
5	MR. GROSSMAN: where do they fit into 453(d)?	5	MS. ROSENFELD: That's what the transcript says.
6	MS. CORDRY: There's one, two three pages	6	MR. GROSSMAN: full LUST?
7	behind them. They're in the middle of 453(d).	7	MR. SILVERMAN: Full LUST.
8	MR. GROSSMAN: Okay. So two pages sub for	8	MS. CORDRY: Full-bore LUST we need.
9	middle they're just black and white? Is that the only	9	MR. GROSSMAN: All right. Anything else regarding
10	MS. CORDRY: Yes	10	the exhibits?
11	MR. GROSSMAN: Middle	11	MR. GOECKE: Not from the applicant.
12	MS. CORDRY: as I say, yes, the ones that I	12	MR. GROSSMAN: All right. So except as noted and
13	printed out, they're printed out in black and white, and	13	what will be supplemented in those two exhibits, and those
14	then	14	supplements and all the exhibits that have been submitted
15	MR. GROSSMAN: B and W, two pages of Exhibit	15	except as previously noted are here by admitted. I presume
16	453(d). Okay. We'll try to get that straight	16	that nobody objects to that, is that correct?
17	MS. CORDRY: Right.	17	(Exhibits 1 through 613,
18	MR. GROSSMAN: but you can always check to make	18	except as previously noted,
19	sure, but let me write that on here somewhere. 453(d),	19	were received in evidence.)
20	substitute last substitute for two middle black-and-white	20	MS. CORDRY: I'm sure there must be a reason to
21	pages. All right. You realize that my staff is going to	21	object
22	hate you because I have now written this confusing thing	22	MR. GROSSMAN: I'm sure
23	that even I can't read and certainly won't be able to read	23	MS. CORDRY: but I won't.
24	after a couple of days.	24	MR. GROSSMAN: but I hear no objections. So,
25	MS. CORDRY: Right.	25	as I said, they're all admitted except as previously noted,
	D 405		D 107
	Page 195		Page 197
1	MR. GROSSMAN: All right. And this is, just so I	1	and there will be two additional filings that have already
2	MR. GROSSMAN: All right. And this is, just so I don't get confused here, you gave me a copy of the old	2	and there will be two additional filings that have already been given exhibit labels. Okay. Let me just you've all
2 3	MR. GROSSMAN: All right. And this is, just so I don't get confused here, you gave me a copy of the old 431(b). So	2 3	and there will be two additional filings that have already been given exhibit labels. Okay. Let me just you've all got down the dates now when your submissions are due
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CERTIFICATE

DEPOSITION SERVICES, INC., hereby certifies that the attached pages represent an accurate transcript of the electronic sound recording of the proceedings before the Office of Zoning and Administrative Hearings for Montgomery County in the matter of:

> Petition of Costco Wholesale Corporation Special Exception No. S-2863 OZAH No. 13-12

> > By:

Wendy Campos, Transcriber

	Page 198
1	MS. CORDRY: We're still working. Believe me,
2	that's all we do, is still work. We have never tried to
3	
-	hold anything back, and we've just been finding things,
4	but
5	MR. GROSSMAN: I understand. No, I think
6	everybody tried this is such a, this was such a
7	voluminous case in terms of witness testimony and exhibits
8	and so technical in parts of it that I think you all did
9	remarkably well on this.
10	So I think that's all. Once again, we are
11	adjourned until August 14 at 9:30 a.m. in the Council Office
12	Building, second floor hearing room, for closing oral
13	arguments and discussion of potential conditions. Other
14	than that, the record will not there will be no
15	additional evidentiary submissions except for the two items
16	that are going to be submitted that have already been
17	labeled.
18	MS. HARRIS: Thank you.
19	MR. GOECKE: Thank you.
20	MR. GROSSMAN: It's all understood? Thank you
21	very much.
22	MS. ROSENFELD: Thank you.
23	MR. SILVERMAN: Thank you, sir.
24	MR. GOECKE: Thanks a lot.
25	MS. ADELMAN: Thank you.
	Page 199
-	
1	MR. GROSSMAN: We'll see you in August.
2	MR. BRANN: Thank you.
3	(Whereupon, at 3:35 p.m., the hearing was
4	adjourned.)
5	
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	147:23;155:14;156:3,	admissibility (3)	138:4,19;140:7	alpha (10)
Α	6;158:25;161:7;165:8;	51:19;161:2;172:13	Aging (1)	52:5;60:4;73:14,15;
	166:11;170:7;193:17	admission (2)	156:5	74:4,18,24,25;75:1,6
Abigail (1)	ad (1)	101:15;181:25	ago (6)	alternative (1)
5:15	25:7	admit (2)	23:1;40:12;54:7;	44:18
ability (1)	add (8)	7:25;179:1	80:6;81:23;138:7	although (5)
176:24	10:13;75:12;107:7;	admitted (14)	agree (21)	22:22;23:24;101:19;
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