OFFICE OF ZONING AND ADMINISTRATIVE HEARINGS FOR MONTGOMERY COUNTY

PETITION OF COSTCO WHOLESALE : Case No. S-2863 CORPORATION

: OZAH No. 13-12

-----x

A hearing in the above-entitled matter was held on July 8, 2013, commencing at 9:30 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

		Page 2		Pag
	APPEARANCES		1	PROCEEDINGS
			2	MR. GROSSMAN: This is the eighth day of a pub
			3	hearing in the matter of Costco Wholesale Corporation, Boa
For the A	pplicant:		4	of Appeals No. S-2863, OZAH No. 13-12, petition for a
			5	special exception pursuant to Zoning Ordinance 59-G-2.06
Patricia 1	Harris, Esq.			allow petitioner to construct and operate an automobile
Mike Goed	ke, Esq.			filling station which would include 16 pumps. The subje
	,			site is located at 11160 Veirs Mill Road, Silver Spring,
Lerch, Ea	rly & Brewer, Chartered			Maryland. That's Lot N, 631 Wheaton Plaza, Parcel 10, a
2 Pothogd	a Motro Contor Suito 460			known as the Westfield Wheaton Mall, and is zoned C-2
o becneso	a Metro Center, Suite 460			general commercial. The bearing was begun on April 26, 2013, resum
Bethesda,	Maryland 20814		12	3 11 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
				on May 1, May 6, May 23, June 4, June 17, and June 19, 20 It was noticed to resume again today. The next session h
				been noticed for July for Thursday, July 11, in this
For Kensi	ngton Heights Civic Association:			room, second floor OZAH hearing room, in this building, t
				Council Office Building, at 9:30 a.m.
Michele R	osenfeld, Esq.		18	This hearing is conducted on behalf of the Board
The Law O	ffice of Michele Rosenfeld, LLC		_	of Appeals. My name is Martin Grossman. I'm the Hear
THE Haw U.	rice of michele Rosenfeld, LLC			Examiner, which means I will take evidence and write a
11913 Amb	leside Drive		21	report and recommendation to the Board of Appeals which
			22	make the final decision in the case. Will the parties
Potomac,	Maryland 20854		23	identify themselves for the record, please?
			24	MR. SILVERMAN: Larry Silverman, Stop Costco G
			25	Coalition.
			23	Coantion.
		Page 3	23	
	CONTRNIC	Page 3		Paç
	CONTENTS	Page 3	1	Paç MS. CORDRY: Karen Cordry, KHCA.
Witnesses:		Page 3	1 2	Paç MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA.
	Direct Cross Redire	· ·	1 2 3	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman.
Witnesses: David A. : By Mr. (Direct Cross Redire Sullivan	· ·	1 2 3 4	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition.
David A.	Direct Cross Redire Sullivan	· ·	1 2 3 4 5	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco.
David A.	Direct Cross Redire Sullivan Goecke 40	· ·	1 2 3 4	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco.
David A.	Direct Cross Redire Sullivan Goecke 40	· ·	1 2 3 4 5	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco.
David A.	Direct Cross Redire Sullivan Goecke 40	· ·	1 2 3 4 5 6 7 8	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched positi
David A. : By Mr. (By Ms.)	Direct Cross Redire Sullivan Goecke 40 Rosenfeld 68 EXHIBITS	· ·	1 2 3 4 5 6 7 8 9	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched positi
David A. By Mr. G	Direct Cross Redire Sullivan Goecke 40 Rosenfeld 68 EXHIBITS	oct Recross	1 2 3 4 5 6 7 8 9	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position me. Was that to make sure that I was awake after moliday? Is that
David A. By Mr. G By Ms. 1	Direct Cross Redirect Sullivan Goecke 40 Rosenfeld 68 EXHIBITS Mark	ect Recross	1 2 3 4 5 6 7 8 9	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position me. Was that to make sure that I was awake after moliday? Is that MS. ROSENFELD: For technical convenience, we'
David A. By Mr. G By Ms. 1	Direct Cross Redire Sullivan Goecke 40 Rosenfeld 68 EXHIBITS	ect Recross	1 2 3 4 5 6 7 8 9 10	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position me. Was that to make sure that I was awake after moliday? Is that MS. ROSENFELD: For technical convenience, we've
David A. By Mr. G By Ms. 1	Direct Cross Redirect Sullivan Goecke 40 Rosenfeld 68 EXHIBITS Mark	ect Recross	1 2 3 4 5 6 7 8 9 10 11 12 13	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position me. Was that to make sure that I was awake after moliday? Is that MS. ROSENFELD: For technical convenience, we' MR. GROSSMAN: I'm not sure that my right left brain can adjust to this. I don't know. I mean
David A. By Mr. By Ms. Exhibit No. 189(b)(i)	Direct Cross Redirect Sullivan Goecke 40 Rosenfeld 68 EXHIBITS Mark Revised pages 2 and 3 of Exhibit 189(b)	ect Recross med/Received 37	1 2 3 4 5 6 7 8 9 10 11 12 13	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position me. Was that to make sure that I was awake after moliday? Is that MS. ROSENFELD: For technical convenience, we'der the moliday in the moliday.
David A. By Mr. By Ms. Exhibit No. 189(b)(i)	Direct Cross Redirect Sullivan Goecke 40 Rosenfeld 68 E X H I B I T S Mark Revised pages 2 and 3 of Exhibit 189(b) Chapter 31B-Noise Control,	ect Recross med/Received 37	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position me. Was that to make sure that I was awake after moliday? Is that MS. ROSENFELD: For technical convenience, we've make the convenience of t
David A. By Mr. By Ms. Exhibit No. 189(b)(i) 195(a)	Direct Cross Redirect Sullivan Goecke 40 Rosenfeld 68 EXHIBITS Mark Revised pages 2 and 3 of Exhibit 189(b) Chapter 31B-Noise Control, Montgomery County Code	ced/Received 37	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position me. Was that to make sure that I was awake after mholiday? Is that MS. ROSENFELD: For technical convenience, we'der the more sure that my right left brain can adjust to this. I don't know. I mean MR. ADELMAN: Well, we're all disoriented right now. MS. HARRIS: We're having difficulties as well.
David A. By Mr. By Ms. Exhibit No. 189(b)(i) 195(a)	Direct Cross Redirect Sullivan Goecke 40 Rosenfeld 68 EXHIBITS Mark Revised pages 2 and 3 of Exhibit 189(b) Chapter 31B-Noise Control, Montgomery County Code Excerpt from Title 3, Maryland Environmental Code	ced/Received 37 76	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position me. Was that to make sure that I was awake after moliday? Is that MS. ROSENFELD: For technical convenience, we're made and adjust to this. I don't know. I mean MR. ADELMAN: Well, we're all disoriented right now. MS. HARRIS: We're having difficulties as well. MR. GROSSMAN: time will tell. It'll be very
David A. By Mr. By Ms. Exhibit No. 189(b)(i) 195(a)	Direct Cross Redirect Sullivan Goecke 40 Rosenfeld 68 E X H I B I T S Mark Revised pages 2 and 3 of Exhibit 189(b) Chapter 31B-Noise Control, Montgomery County Code Excerpt from Title 3, Maryland	ced/Received 37	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position me. Was that to make sure that I was awake after moliday? Is that MS. ROSENFELD: For technical convenience, we've'learn to an adjust to this. I don't know. I mean MR. ADELMAN: Well, we're all disoriented right now. MS. HARRIS: We're having difficulties as well. MR. GROSSMAN: time will tell. It'll be very disorienting for me. All right. I have a few preliminary
David A. By Mr. By Ms. Exhibit No. 189(b)(i) 195(a)	Direct Cross Redirect Sullivan Goecke 40 Rosenfeld 68 EXHIBITS Mark Revised pages 2 and 3 of Exhibit 189(b) Chapter 31B-Noise Control, Montgomery County Code Excerpt from Title 3, Maryland Environmental Code	ced/Received 37 76	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position me. Was that to make sure that I was awake after modiday? Is that MS. ROSENFELD: For technical convenience, we've made and it is a made and it is
David A. By Mr. By Ms. 1 Exhibit No. 189(b)(i) 195(a) 195(b) 195(c) 196	Direct Cross Redirect Sullivan Goecke 40 Rosenfeld 68 E X H I B I T S Mark Revised pages 2 and 3 of Exhibit 189(b) Chapter 31B-Noise Control, Montgomery County Code Excerpt from Title 3, Maryland Environmental Code COMAR 26.02.03.01 Appendix X to Exhibit 15(a)	red/Received 37 76 76 76 85	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position me. Was that to make sure that I was awake after moliday? Is that MS. ROSENFELD: For technical convenience, we've'learn can adjust to this. I don't know. I mean MR. ADELMAN: Well, we're all disoriented right now. MS. HARRIS: We're having difficulties as well. MR. GROSSMAN: time will tell. It'll be very disorienting for me. All right. I have a few preliminary matters. Is there anybody else in the audience who is he who's not a witness to be called by one of the parties will
By Mr. (By Ms.) Exhibit No. 189(b)(i) 195(a) 195(b)	Direct Cross Redirect Sullivan Goecke 40 Rosenfeld 68 E X H I B I T S Mark Revised pages 2 and 3 of Exhibit 189(b) Chapter 31B-Noise Control, Montgomery County Code Excerpt from Title 3, Maryland Environmental Code COMAR 26.02.03.01 Appendix X to Exhibit 15(a) Page 21 of the LATR and PAMR	red/Received 37 76 76	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position me. Was that to make sure that I was awake after moliday? Is that MS. ROSENFELD: For technical convenience, we'le made and adjust to this. I don't know. I mean MR. ADELMAN: Well, we're all disoriented right now. MS. HARRIS: We're having difficulties as well. MR. GROSSMAN: time will tell. It'll be very disorienting for me. All right. I have a few preliminary matters. Is there anybody else in the audience who is he who's not a witness to be called by one of the parties will have spoken up already who wishes to be heard today?
David A. By Mr. By Ms. Exhibit No. 189(b)(i) 195(a) 195(b) 195(c) 196	Direct Cross Redirect Sullivan Goecke 40 Rosenfeld 68 E X H I B I T S Mark Revised pages 2 and 3 of Exhibit 189(b) Chapter 31B-Noise Control, Montgomery County Code Excerpt from Title 3, Maryland Environmental Code COMAR 26.02.03.01 Appendix X to Exhibit 15(a)	red/Received 37 76 76 76 85	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. CORDRY: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position on me. Was that to make sure that I was awake after micholiday? Is that MS. ROSENFELD: For technical convenience, we're sure that my right left brain can adjust to this. I don't know. I mean MR. ADELMAN: Well, we're all disoriented right now. MS. HARRIS: We're having difficulties as well. MR. GROSSMAN: time will tell. It'll be very disorienting for me. All right. I have a few preliminary matters. Is there anybody else in the audience who is he who's not a witness to be called by one of the parties with have spoken up already who wishes to be heard today? (No audible response.)
David A. By Mr. By Ms. 1 Exhibit No. 189(b)(i) 195(a) 195(b) 195(c) 196	Direct Cross Redirect Sullivan Goecke 40 Rosenfeld 68 E X H I B I T S Mark Revised pages 2 and 3 of Exhibit 189(b) Chapter 31B-Noise Control, Montgomery County Code Excerpt from Title 3, Maryland Environmental Code COMAR 26.02.03.01 Appendix X to Exhibit 15(a) Page 21 of the LATR and PAMR	red/Received 37 76 76 76 85	1 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: Karen Cordry, KHCA. MS. ROSENFELD: Michele Rosenfeld, KHCA. MR. ADELMAN: Good morning, Mr. Grossman. Dr. Mark Adelman for the Coalition. MR. GOECKE: Michael Goecke for Costco. MS. HARRIS: Pat Harris, Costco. MR. BRANN: And Erich Brann for Costco. MR. GROSSMAN: I noticed you've switched position on me. Was that to make sure that I was awake after micholiday? Is that MS. ROSENFELD: For technical convenience, we're sure that my right left brain can adjust to this. I don't know. I mean MR. ADELMAN: Well, we're all disoriented right now. MS. HARRIS: We're having difficulties as well. MR. GROSSMAN: time will tell. It'll be very disorienting for me. All right. I have a few preliminary matters. Is there anybody else in the audience who is he who's not a witness to be called by one of the parties with have spoken up already who wishes to be heard today? (No audible response.)

Page 6 Page 8

1 exchanged and copied to the hearing participants and made a

- 2 part of the public record since the last hearing on June 19.
- 3 There were also some substantive filings. These e-mails and
- 4 filings are included in Exhibits 173, 174, and 178 through
- 5 194. I saw from a quick perusal of my e-mails from July 5th
- 6 this morning that there were some other things filed on
- o this morning that there were some other things med on
- 7 Friday, July 5, that are not yet exhibits in the record, but
- 8 anyway, the ones that are go through Exhibit 194. Some of
- 9 these exchanges concern the proposed pedestrian path which
- 10 has been tentatively modified since the opposition objected
- 11 to a three-foot wide path, and technical staff agreed with
- 12 that, according to the e-mail exchange. It now would not
- 13 extend as far along the southern ring road but would be five
- 14 feet wide for the portion that did extend.

At my request, the applicant has shared electronic

- 16 copies of the newly proposed configuration with the hearing
- 17 participants, although the actual physical plans have not
- .8 yet been filed because, I believe, they're still tentative.
- 19 KHCA has now filed a letter with technical staff, critiquing
- 20 the new proposal; that's Exhibit 192. Applicant responded
- 21 to that in Exhibit 194. The technical staff indicated it
- 22 will do a site examination to evaluate the situation. There
- 23 have been a number of filings in support of the application
- 24 -- Exhibits 183 through 186 -- and a discussion of possible
- 25 additional hearing dates. Applicant also filed a response,

1 to understand what the analysis of this all is.

- 2 So let's try to make sure that we do address
- 3 central issues here, and I'm not saying that the materials
- 4 filed were not a central issue because certainly ultrafine
- 5 particles was a central issue raised by the opposition here,
- 6 but I just want to -- so I'm not really addressing so much
- 7 what was filed as just a hint to try to keep things on a
- 8 center keel here, as much as possible, in both direct and
- 9 cross-examination. I've been very broad in allowing
- 10 cross-examination and direct so that everybody can get their
- L1 say here, but in terms of accomplishing what you want to
- 12 accomplish, I think it's important that you stay centered on
- 13 this case.
- Okay. And also I might mention, one other thing
- 15 that was filed here, the supplemental data, Mr. Sullivan's
- 16 Exhibit 189(b), I think it will be helpful if he went back
- 17 over that because I actually -- that should be one of the
- 18 more important documents here and I had great difficulty
 19 understanding that particular document, although I
- 20 understood the other papers that were filed. So I do want
- 21 him to address that here. Even though he's supposed to be
- 22 in cross-examination mode right now, I would like that
- 23 additional filing to be addressed on a kind of circular
- 24 direct here, going back to direct again for that. Okay.
- 25 Anybody have an objection to that process?

Page 7

- 1 Exhibit 189(a), to KHCA's answer to my 20 questions, as well
- 2 as supplemental material supporting Mr. Sullivan's testimony
- 3 and that's in Exhibit 189(b) through (h) and Exhibit 193.
- 4 Exhibit 193 is the Washington Council of Governments report
- ${f 5}$ on the PM 2.5 maintenance plan dated May 22, 2013.
- Of course, receiving all of that stuff has made me question whether I should ask questions anymore since I've
- 8 been barraged with so much additional material. I think all
- 9 I asked was what additional incremental increase in VOCs and
- 10 particulate matter would the proposed gas station produce,
- 11 but then I got a lot of material as a result. And I think
- 12 everybody should bear in mind, my report is not going to be
- 13 1,000 pages long, citing such things as Rebecca Abernathy's
- 14 145-page master's thesis discussing particulate matter in,
- 15 in Vancouver, and that's Exhibit 189(d), although I might
- 16 discuss some conclusions in the Zhu, Hinds, Kim & Sioutas
- 17 paper on the size distribution of ultrafine particles which,
- 18 according to them, has little or no impact at a distance of
- 19 90 meters from the freeway. That's Exhibit 189(c).
- 20 I'm not sure, but -- and I think these materials
- 21 are relevant. I'm not saying they shouldn't be filed. I'm
- 22 just saying that we should try to keep our eyes on the ball
- 23 here because the level of detail being supplied is going to
- 24 be beyond -- even though I may understand what's being filed
- 25 based on hearing this record, we want everybody to be able

Page 9

- MS. ROSENFELD: No, no objection. I don't believe
 I brought a copy of that with me today. Is it possible to
- 3 get copies so we can refer to it as he's questioned on it?
- 4 MR. GROSSMAN: I think that is possible.
 - MS. ROSENFELD: Is it lengthy?
- 6 MR. GROSSMAN: Is it lengthy? No, it was not 7 lengthy. Let's see.
- 8 MS. ROSENFELD: Or if it's on --
- 9 MR. GROSSMAN: It's, I think, 14 pages long with a
- 10 lot of diagrams on it. Anybody else have a copy they can --
- MS. ROSENFELD: You know what? Maybe I do. Hold
- 12 on.

- MR. GOECKE: Not an extra one.
- 14 MR. GROSSMAN: Okay.
- MR. GOECKE: And I just want to make sure,
- 16 actually, Mr. Grossman, that we're, we're talking about the
- 17 same exhibit. Is it okay if I approach to take a look?
- MR. GROSSMAN: Sure. It's entitled Supplemental
 Data Regarding the Testimony of David Sullivan on June 17
- 20 and June 19 --
- 21 MR. GOECKE: Okay, great.
- MR. GROSSMAN: -- and it, 2013, and it responds to
- 23 questions that I raised and others raised. There were many
- 24 other things filed, various studies and so on filed, which I
- 25 just mentioned, but --

Page 10 Page 12

- MR. GOECKE: And, Mr. Sullivan, you have a copy of
- 2 that on your computer as well?
- 3 MR. SULLIVAN: That's what I was just looking for.
- 4 I do. It didn't come up properly. Let me try again. Let
- 5 me get it up, and then we can switch --
- 6 MS. CORDRY: Okay, yes.
- 7 MR. SULLIVAN: -- switch the photo.
- 8 MS. ROSENFELD: Mr. Grossman, can I see the first
- 9 page of it?
- MR. GROSSMAN: Certainly. Want to come up,
- 11 Michele?
- MR. GOECKE: Is it closer to you, Michele?
- MS. ROSENFELD: No. I have documentation of Slide
- 14 25. That's something different, isn't it?
- MR. GOECKE: That's one of the attachments to
- 16 this.
- MS. ROSENFELD: It is one of the attachments?
- MR. GOECKE: Or unless that's what we gave you at
- 19 the last hearing. That might have been from the last
- 20 hearing, actually.
- MS. ROSENFELD: That's from the last hearing.
- MR. GOECKE: Yes, that's right.
- MS. ROSENFELD: Okay. I apologize, Mr. Grossman.
- 24 I don't have a copy of that with me.
- 25 MR. GROSSMAN: All right. Perhaps if --

- 1 acceptable. I would proffer the first four and then we
- 2 would then identify two additional dates in October after
- 3 October 17th, I believe was your date, and so therefore I'd
- 4 suggest October 21 and 24.
- MS. ADELMAN: But, Mr. Grossman --
- 6 MR. GROSSMAN: Yes.
- 7 MS. ADELMAN: -- Dr. Cole, with the Coalition, is
- 8 not available on the 12th of September.
- 9 MR. GROSSMAN: All right. Well, that's why I said
- 10 I was hoping that you folks would work this out off line, as
- 11 it were, and then we could talk about it at the hearing. I
- 12 mean, it's not an emergency that we need to have the dates
- 13 identified, but it would be nice if we could by, by the next
- 14 hearing date, which is Thursday. And then --
- MS. ADELMAN: We just have to eliminate one of the five remaining.
- MR. GROSSMAN: Okay. So why don't you all discuss that and figure out which dates are good for you --
- 19 MS. ADELMAN: Yes.
- MR. GROSSMAN: -- and then we can send out a
- 21 notice, okay? All right. Now, I also, another item here, I
- 22 noticed in going over the testimony that Mr. Hurlocker
- 23 testified that the underground tanks would hold 90,000
- 24 gallons of fuel but the engineering report indicates 60,000
- 25 gallons. So I was just curious as to which is correct about

Page 11

Page 13

- 1 MS. ROSENFELD: So if we could get a copy, but 2 certainly have no --
- 3 MR. GROSSMAN: -- my administrative staff is
- 4 monitoring, they can come in and I can give them my copy
- 5 which then can be further copied.
- 6 MS. ADELMAN: Could I have one also, Mr. Grossman?
- 7 I did not receive that.
- 8 MR. GROSSMAN: Certainly.
- 9 MS. ROSENFELD: And one for Mr. Cole as well --
- 10 MR. GROSSMAN: Okay.
- 11 MS. ROSENFELD: -- Dr. Cole.
- MR. GROSSMAN: While we're cogitating that, has
- 13 any agreement been reached on additional dates?
- 14 MS. ROSENFELD: Mr. Grossman --
- 15 MR. GROSSMAN: Yes.
- MS. ROSENFELD: -- KHCA had proffered some dates.
- 17 I think that --
- 18 MR. GROSSMAN: I saw that.
- MS. ROSENFELD: -- one was not available for the
- 20 Coalition, one of the September dates. I'm amenable to any
- 21 of the proffered dates in September that Costco is --
- MS. HARRIS: What I would suggest is -- there were six dates proffered. After some exchange it was --
- 24 MR. GROSSMAN: Right.
- MS. HARRIS: -- indicated that only four would be

- 1 that, Ms. Harris.
- MS. HARRIS: I would need to go back and confer,
- 3 but my, I am fairly certain that it's the 90,000 that --
- 4 yes, it's the 90,000.
- 5 MR. GROSSMAN: Okay. Well, I take it then, then
- 6 it would not make any difference in the engineering
- 7 report --

- 8 MS. HARRIS: I don't --
- 9 MR. GROSSMAN: -- because the engineering -- take
- 10 a look back at the engineering report --
- 11 MS. HARRIS: I will.
 - MR. GROSSMAN: -- and see because that's my
- 13 recollection, is it said 60,000-gallon tanks. So --
- 14 MS. HARRIS: I will.
- MR. GROSSMAN: -- just file something that
- 16 clarifies this on the record, okay?
- 17 MS. HARRIS: Okay.
- MR. ADELMAN: Mr. Grossman, when you referred to
- 19 the engineering report, are you referring to Mr. Tucker's
- 20 report or Mr. --
- MR. GROSSMAN: Mr. Duke's report, I think, I think
- 22 it was. I don't remember. I read it -- it's been at least
- 23 a week or two since I made this, I noticed this. So --
- 24 MR. ADELMAN: I'm sorry?
- MR. GROSSMAN: -- I can't remember what the --

Page 14 Page 16

- 1 let's see if we have an exhibit number here. I mean, I'm
- 2 pretty sure what I did was I just looked at electronic
- 3 copies of what I had. I don't see it. Well, if I had been
- 4 smart, I would have made a -- oh, here it is. Exhibit 13, I
- 5 think, is probably what I was looking at originally, and
- 6 then when I was going over the testimony, I noticed that was
- 7 not consistent with what Mr. Hurlocker testified. So see if
- 8 that's, my recollection is correct or that discrepancy
- 9 exists somewhere else. All right.
- MR. ADELMAN: So that, excuse me again, that's the
- 11 overall engineering report?
- MR. GROSSMAN: Yes, I believe. That's my
- 13 recollection of what I was looking at in the, in my
- 14 electronic copies. Okay. Any other preliminary or
- 15 procedural matters? We'll start from the left, as we, as we
- 16 usually do. Mr. Silverman?
- MR. SILVERMAN: Yes, sir. You raised a question
- 18 about Sierra Club versus EPA, and you said in your e-mail
- 19 that we should be prepared to discuss it today, and I'm
- 20 prepared to discuss it and would like to make three quick
- 21 points about it.
- MR. GROSSMAN: All right. Let's come back to
- 23 that.
- 24 MR. SILVERMAN: Yes.
- MR. GROSSMAN: Any other preliminary matters?

- 1 to agree to, and then if somebody has an objection to the
- 2 way you're formatting it or something, they'll object and
- 3 then I would rule on any objection, but there isn't any, any
- 4 requirement that you have to accept all of something as
- 5 opposed to portions of it.
- 6 MR. ADELMAN: So therefore I presume that all
- 7 parties and you must agree to a stipulation?
- 8 MR. GROSSMAN: I don't have to agree to --
- 9 MR. ADELMAN: Oh.
- MR. GROSSMAN: -- a stipulation. It's a matter,
- 11 if the parties are agreeing to something as factually, some
- 12 stipulation as to facts, then the parties can agree to it.
- 13 If I think that it's irrelevant or immaterial or somehow a
- 14 violation of other rules of evidence, then I would so rule,
- 15 but I don't have to agree to a stipulation per se.
- MR. ADELMAN: Okay. The second question I'm
- 17 probably going to need some help from you because I'm not
- 18 sure of the phrasing. So, first of all, is it permissible
- 19 to ask Ms. Harris a question that's not directly related to
- 20 matters that we're talking about today?
- MR. GROSSMAN: You can ask Ms. Harris anything at
- 22 all at any time as long as it's not in the middle of the
- 23 hearing process that's going on. If you mean that -- off
- 24 line, you mean --
- 25 MR. ADELMAN: No. I mean --

Page 15

- 1 Anybody? Yes, Dr. Adelman.
- MR. ADELMAN: The Coalition has two questions,
- 3 Mr. Grossman, procedural questions. The first goes to the
- 4 rules as to stipulating. If we choose to stipulate to
- 5 testimony of an expert witness, that must be done in advance
- 6 and preferably by notification to all parties by e-mail, is
- 7 that correct?
- 8 MR. GROSSMAN: Well, I can't recall if there's
- 9 something specific in the rules about stipulations. I don't
- 10 think there is. It would be a sensible way to do it, to --
- 11 if you're going to stipulate to something, let's have it
- 12 done in advance so that people don't waste a lot of time
- 13 preparing. So yes, I would say that would be a sensible way
- 14 to approach it. What do you -- do you have something in
- 15 mind, in particular?
- MR. ADELMAN: Nothing, nothing specific at this
- 17 point. I'm so unclear about it. I wanted to define --
- 18 MR. GROSSMAN: Right.
- MR. ADELMAN: -- the parameters. The second
- 20 aspect of the question is, is it possible to stipulate with
- 21 conditions, that is to say, to stipulate that one accepts
- 22 certain things and does not accept others, or is it an
- 23 all-or-nothing stipulation?
- MR. GROSSMAN: No, no, there's nothing -- there's
- 25 nothing all or nothing. You can proffer whatever you want

- 1 MR. GROSSMAN: -- or are you talking about in the 2 course of the hearing?
- 3 MR. ADELMAN: I mean, here, at this point.
- 4 MR. GROSSMAN: Well, we're a little bit more
- 5 relaxed. So if you have something that you feel should be
- 6 an exchange that should be made on the record, you know,
- 7 that's fine --8 MR. ADELMAN: All right.
- 9 MR. GROSSMAN: -- we'll, as long as it stays
- .0 within reasonable bounds, we'll recognize it.
- MR. ADELMAN: Fine. And the second half of it is
- 12 that I can't find a way to phrase this in one long sentence
- 13 without being absurdly complex; so can I break the one
- 14 question into three chunks so people can understand what I'm
- 15 asking?
- MR. GROSSMAN: I would think that would be better than one that's not understood, yes.
- MR. ADELMAN: Okay, fine. Let me give this a
- 19 shot. Could Ms. Harris please clarify for the record
- 20 precisely how many parking spaces will be available to
- 21 Costco patrons if and when the store opens? And would she
- 22 specify the numbers for the parking lot and the parking
- 23 garage separately? And finally, can she clarify, if so,
- 24 that the numbers are -- that the numbers are those that are

Page 18 Page 20 1 Costco? 1 MR. ADELMAN: Excellent. That's fine. Thank you. 2 2 MR. GROSSMAN: All right. Ms. Harris, do you want MR. GROSSMAN: Okay. All right. Ms. Rosenfeld, 3 to respond to that? I think there's evidence on all these 3 did you have --4 points. So I'm not sure -- I mean, the evidence, 4 5 essentially, is what's going to control. Do you think

MR. ADELMAN: I'm, frankly, I'm preparing my 8 testimony, which I want to be factually accurate, and I 8 MS. HARRIS: Which revised documents? 9 found that I can't find the numbers that I thought I knew. 9

10 I have a stack of papers this high --11 MR. GROSSMAN: Right.

12 MR. ADELMAN: -- I've gone through them. I can't 12

13 find them in my notes or in a document. I'm sure they're 14 there. I just don't know what they are. I mean, I

6 there's a conflict in the evidence on this point?

remember, I believe, what they are, but --

16 MR. GROSSMAN: Okay. I mean, when I have that 17 kind of problem myself, I usually just try an electronic

18 search through the transcript, put in something like parking

19 space and search for it and then comes up with usually about

20 the right area. That's one way to try it, but in terms of

21 -- I don't know. Maybe Ms. Harris has those numbers off the

22 top of her head. I --

23 MS. HARRIS: Ms. Harris doesn't have them off the

24 top of her head. I do recall that Dan Duke testified to

25 that, at least, and -- at least the first question, and I

MS. ROSENFELD: Yes, a couple of questions. Do,

5 Pat, do you know when we would expect to get the revised documents?

7 MR. GROSSMAN: You're talking about the new --

MR. GROSSMAN: -- the plans regarding the

10 pedestrian path and --

11 MS. ROSENFELD: The pedestrian path, that's --

MS. HARRIS: We're waiting for staff's --

13 MS. ROSENFELD: Okay.

14 MS. HARRIS: -- final acceptance of them, and then

15 our plan was to then submit them formally.

16 MS. ROSENFELD: All right. So --

17 MS. HARRIS: And my understanding was that at 18 least Ms. Kamen was out last week, and so I would hope that

sometime this week we'll hear from staff, but I have not --

20 MR. GROSSMAN: Right.

21 MS. HARRIS: -- checked in with them.

22 MR. GROSSMAN: I mean, I have some concern

23 because, based on what you filed, Ms. Rosenfeld, you

24 obviously challenge the proposed new path. And so, you

25 know, I'm not sure where ultimately, where Westfield comes

1 down on what they're ultimately going to offer here, whether

2 it's still going to be -- because I think that their, I

would suppose, that their revision was an attempt to satisfy

the concerns of the community about this.

5 MS. ROSENFELD: Well, maybe I should clarify our 6 position. To the extent that the path is reflected in the

plan, that's a good thing. We think that the scope of the

path is inadequate, that there should -- that it should be

9 longer.

10 MR. GROSSMAN: Right.

MS. ROSENFELD: So I don't want you to be under 12 the impression that we think that what's there should be

13 removed.

14 MR. GROSSMAN: You mean by what's there, you mean 15 the newly proposed five-foot wide path that terminates --

16 MS. ROSENFELD: The newly proposed five-foot path.

17 MR. GROSSMAN: Right.

MS. ROSENFELD: We're not saying that that 18

19 component is inappropriate or should be deleted from the

plan. Our comments were intended to reflect the idea that

21 it's an improvement but it's still inadequate.

MR. GROSSMAN: Well, in your mind, if the path 22

23 were to extend further but the further extension along the

24 southern ring road were only three feet wide, would that

25 still be problematic in your mind?

Page 19

1 didn't get the second or third one. If you could repeat 2 them.

3 MR. ADELMAN: All right. I can -- would you like 4 me to repeat them or --

MS. HARRIS: How many parking spaces available to 5 6 Costco, that was the first question.

7 MR. ADELMAN: Costco patrons after the, if and

8 when the gas station opens. 9 MS. HARRIS: Yes.

10 MR. ADELMAN: And the second aspect was, can you 11 clarify how many spaces are in the parking lot and how many

12 in the garage? And the third is, essentially, am I correct

13 that that's a contractual matter between Westfield and

14 Costco?

15 MS. HARRIS: I believe Mr. Duke testified to the,

16 or it may have been Mr. Guckert, but I thought Duke, as to 17 the second question, and the third question I would need to

18 check with Costco. I don't believe that's on the record.

19 MR. GROSSMAN: Okay.

20 MR. ADELMAN: So we --

MR. GROSSMAN: I think she'll, Ms. Harris will get 21

22 back to us with what --

23 MR. ADELMAN: Excellent.

24 MR. GROSSMAN: -- what she believes are the

25 correct figures.

1 MS. ROSENFELD: Well, I think from our point of 2 view that would be better than nothing but still doesn't 3 provide an adequate level of safety for the pedestrians 4 walking on the ring road.

MR. GROSSMAN: Because, according to what you 6 recited in your letter, the promise by Westfield to the 7 other Mr. Sullivan, I believe, or maybe to Mr. Leggett, was 8 that it would be a three-foot wide path, isn't that correct?

9 That was what the letter, the Westfield letter promised, was 10 for a three-foot wide path?

11 MS. ROSENFELD: That is correct, and at the time, 12 the gas station was proposed to be located in a very 13 different place from where it is.

MS. CORDRY: If I might supplement, that was a 14 15 proposal regardless of whether the gas -- or not a proposal. 16 That was a commitment regardless of whether the gas station 17 was there or not. Clearly, I think as we've been seeing,

18 the levels of traffic on that segment of the ring road will 19 be substantially different with the gas station than without 20 the gas station. So what happens if you had no gas station

21 but just the store and a three-foot path? You know, again,

22 it's not ideal, but it's a different question than what

23 you're facing here with a gas station proposal.

24 MR. GROSSMAN: Right, but I'm not, I'm not --

25 right now I'm not evaluating the merits of three feet versus

1 parties can agree to something and it could be reflected in

2 the, in the special exception site plans but, as it

3 currently is, but there's a limit to the authority, I think,

of the Hearing Examiner and the Board of Appeals to direct

5 things from nonparties that are outside of the special

exception area. I have, I have supported conditions in the

past outside of a special exception area, when the owner of

the land agreed to it and wanted it, in order to improve

protections for that landowner or, you know, something they felt was in their interest.

11 So that may well be the case here, and I suspect 12 it would be because I assume that Westfield would like to have something that everybody's agreeable to, but I'm just 14 saying that, that you have to understand that there, as I said, I think, in an e-mail to everybody, there's a limit to what the authority is of the, in my opinion, of the Board of Appeals and of the Hearing Examiner.

MS. ROSENFELD: I understand your statement that 18 19 the authority of the Board of Appeals to impose a condition on a third party is a limitation, essentially a

jurisdictional limitation, I would say.

MR. GROSSMAN: Right. 22

MS. ROSENFELD: I don't understand you to be 24 saying, however, that the Board of Appeals can't, is not in

25 a position to consider pedestrian safety as it may be

Page 23

23

1 affected with or without a path; that --

MR. GROSSMAN: No, I'm not.

3 MS. ROSENFELD: -- that is, that's a factual

4 finding completely independent of the issue that you just 5 raised.

6 MR. GROSSMAN: Right, but what we've --

7 MS. ROSENFELD: Okay.

MR. GROSSMAN: -- been trying to do here, I think, 8

9 in this exchange about the pedestrian path is to arrive at

10 something that was, in case the special exception is

11 granted, something that is most beneficial to the community

12 and to Westfield and to the applicant here. So I think that

13 was the reason for this exercise. So, of course, now we

14 have a path that is wider but not as long, and I don't know

15 if --

16 MS. ROSENFELD: And until we see the final path, 17 it's hard to --

MR. GROSSMAN: Well, I know there's a final path. 18 19 I think it's a work in progress to the extent we have to

wait for technical staff to take a look again and see what they think, and then we have to see what Westfield thinks it

can do consistent with its other needs. So it's somewhat up in the air, but it would make sense if you all could consult

24 at the same time with technical staff -- I'm talking about

25 the community as well as the applicant and Westfield with

1 five feet. I'm just trying to see if there is some middle 2 ground that would satisfy the community in the event that 3 the Board of Appeals were to grant the special exception, 4 because the special exception, once again, it's not -- I 5 mean, neither the Hearing Examiner nor the Board of Appeals, 6 in my opinion, can dictate to Westfield about this path. It 7 is outside of the special exception site plan area, and 8 Westfield is not an applicant here. So I think it would be 9 highly questionable as to whether or not there could be some

10 order regarding the pedestrian path. 11 So, you know, I recognize in the letter that there 12 was a promise regarding it, regardless of the special 13 exception, from Westfield, but you know, if in fact there's 14 some agreement by the parties that says this is going to be part of what everybody's agreeing to, that's one thing, but 16 it's something else to expect a condition, if the special 17 exception is granted here, that would require it. So I just 18 think you all ought to know that.

MS. ROSENFELD: Is it your position that if the 19 20 path is reflected on the special exception site plan, that 21 it doesn't become binding --

22 MR. GROSSMAN: No. I'm just saying that if in 23 fact --

24 MS. ROSENFELD: -- to provide?

25 MR. GROSSMAN: -- if in fact -- I'm saying that

Page 26 Page 28

- 1 technical staff -- and see if something can be -- I know you
- 2 had meetings, according to what technical staff said,
- 3 separately, but maybe if you all meet together. It's not
- 4 the kind of thing, I'm not in a position to be the mediator
- 5 here because I have to be the fact finder; so, but I do want
- 6 to encourage you to try to -- I always try to protect the
- 7 community as best I can, and I would like to do that here.
- 8 So, anyway, you all should consider that.
- 9 All right. Anything -- Ms. Rosenfeld, did you
- 10 have any other preliminary matters?
- MS. ROSENFELD: No, Mr. Grossman. Thank you.
- MR. GROSSMAN: Okay. Any other preliminary
- 13 matters before I turn back to Mr. Silverman's suggestion
- 14 that he wanted to make some points about the Sierra Club and
- 15 the EPA?
- MR. GOECKE: Just one minor thing --
- 17 MR. GROSSMAN: Mr. Goecke.
- MR. GOECKE: -- and we can get into it when
- **19** Mr. Sullivan begins to testify, but once we get to pages 2
- 20 and 3 of the slide presentation, we've actually made some
- 21 changes to it, and I have those revisions here that I'll
- 22 pass out as well.
- MR. GROSSMAN: Okay, just to add more excitement
- 24 to the events.
- MR. GOECKE: Just to keep the, keep everybody on

- 1 MS. CORDRY: Yes.
- 2 MR. SILVERMAN: Thank you, yes.
- 3 MR. GROSSMAN: Yes. There is the D.C. Court of
- 4 Appeals too. Okay.
- 5 MR. SILVERMAN: I know that. I've been there,
- 6 yes, sir.
- 7 MR. GROSSMAN: Right.
- 8 MR. SILVERMAN: Really, the question of what, how
- 9 much more, how a small addition of pollution will affect
- 10 health is a health question, and I think the position of the
- 11 applicant has been, well, some of these health questions
- 12 have been resolved by the agency and we should just accept
- 13 the agency's findings. Well, in this case, the agency's
- 14 findings does not, no longer exists. You asked -- that's
- 15 point one. So that a basis -- now, he later said in his
- 16 testimony that he did not rely on that number, but you can
- 17 look at his charts and his, the whole tenor of his testimony
- 18 and make your own decision. I've made mine about that 19 question.
- The second point is, it is true, as you suggest in
- 21 your question, that PSD and SIL, these various doctrines and
- 22 rules of EPA, do not decide this case and this case does not
- 23 qualify under those rules, it's not applicable, and that, I
- 24 would just say, is true of almost all the environmental
- 25 rules. I think Ms. Harris takes the position that if the

Page 27

- 1 their toes.
- 2 MR. GROSSMAN: Not enough that you confused me
- 3 about where you're sitting. You have to -- all right.
- 4 MR. GOECKE: That wasn't my choice.
- 5 MR. GROSSMAN: All right. Mr. Silverman.
- 6 MR. SILVERMAN: I will try to be brief. The
- 7 Sierra Club versus EPA is about prevention of significant
- 8 deterioration, which is a doctrine of EPA, and it also deals
- 9 with what is a significant increment. The issue of PSD and
- 10 a significant increment -- there's an acronym, SIL, and I
- 11 don't really know what it means -- it was brought up by
- 12 Mr. Sullivan. I think throughout his presentation he makes
- 13 the point that certain, a certain increase is not
- 14 significant based on EPA guidelines and rules, and I asked
- 15 him about those. And on page 94 of the transcript, he said
- 16 he -- his basis for saying that the particular increment was
- 17 not significant was the PSD rules, and I pointed out to him
- 18 that those rules, particularly with regard to significant
- 19 increments, were invalidated by the, by the Court of Appeals
- 20 here in D.C. So they're no longer applicable.
- 21 Now, really, the question of --
- 22 MR. GROSSMAN: Just so --
- 23 MR. SILVERMAN: Yes.
- MR. GROSSMAN: -- we're clear for the record, it's
- 25 the U.S. Court of Appeals for the D.C. Circuit.

- 1 state and federal environmental agencies have not forbidden
- 2 it, it must be safe, and we take just the opposite view:
- 3 that's not true; if they have not forbidden it, it's because
- 4 they don't have jurisdiction. And really, the only person,
- 5 the only agency, as far as I've been able to determine, with
- 6 the authority and responsibility for determining whether
- 7 this is a healthy situation or not is the agency you work
- 3 for. I haven't seen any other parties here.
- 9 MR. GROSSMAN: Well, but I don't operate in a
- LO vacuum, and I rely on other agencies that determine
- 11 standards. I mean, a good example would be in stormwater
- 12 management. You know, I rely on what the state and county
- 13 sets up as standards for stormwater management, and I don't
- 14 set up conditions which are -- which violate those
- 15 standards, because I think that that would be overstepping
- 16 reasonable grounds for my, you know, establishing them.
- MR. SILVERMAN: Well, I understand that, but I
- 18 think in this case of air pollution -- and we can talk about19 stormwater another time -- but in the case of air pollution,
- 20 really, you don't have very much to go on. We'll talk about
- 21 air quality standards, which are highly generalized, but we
- 22 don't have -- and I put in the record and you've accepted in
- 23 the record a statement from the state, saying they really
- 24 don't, they're not guaranteeing safety when they, when they
- 25 -- they do regulate the air, but they don't guarantee

Page 30 Page 32

- 1 safety, and they basically said that.
- 2 MR. GROSSMAN: Let me just stop you for a second.
- 3 MR. SILVERMAN: Yes.
- 4 MR. GROSSMAN: You say I have accepted in the
- 5 record. We allow in a lot of material. What weight it's
- 6 given and that part of the analysis for a weight-later
- 7 consideration, first, on the question of when it's moved,
- 8 when something is moved into evidence and then we will
- 9 evaluate whether or not it's admissible and then, if it is,
- 10 the weight it's to be given later on. So I just don't want
- 11 you to over anticipate what I've ruled on.
- MR. SILVERMAN: Well, you've cautioned me. It makes me think maybe we should bring the state in here and
- 14 let them say it directly. Do we have subpoen power here?
- MR. GROSSMAN: There is subpoena power for things
- 16 within, within Maryland, but usually for, and there is
- 17 something in the rules about, for government officials, we
- 18 just ask them to attend if they're needed.
- MR. SILVERMAN: All right. Let me say the third
- 20 thing. Even though most of the environmental laws do not
- 21 affect this case -- which, to me, as an environmental lawyer
- 22 and professor and so on, it makes it most interesting that
- ${f 23}$ we're in new territory here. This is unregulated area, not
- 24 because it's not important, because just, they just don't
- 25 have jurisdiction for all kinds of reasons, just like, you

- 1 Much of that science and law and policies were developed by
- 2 residents of Montgomery County, and I think it's probably
- 3 helpful in making, particularly, judgments about burden of
- 4 proof to look to that body of knowledge and say, well, do we
- 5 get any guidance there.
- 6 MR. GROSSMAN: Well, I'm not saying absolutely no.
- 7 I would say that it seems to me that your analysis has,
- 8 asking me to kind of sashay into economic policy making in a
- 9 way that is beyond the comprehension of what I do. I'm not
- 10 a policymaker here. I'm going to follow the policy as best
- 11 I can determine it as set up by the Council in its zoning
- 12 ordinance and that's --
 - MR. SILVERMAN: Well, I'm --
- MR. GROSSMAN: -- that's the policy I'm going to
- 15 follow.

13

- MR. SILVERMAN: I'm suggesting, I don't know
- 17 because we haven't had testimony yet, but I'm suggesting if
- 18 the plan has a need now to develop a component, then one way
- 19 to look at that is using some of the techniques developed by
- 20 PSD. I'm just saying the environmental laws are helpful
- 21 guidance, they shouldn't be -- just because they don't apply
- 22 directly doesn't mean they should be ignored. That's my --
- MR. GROSSMAN: I'm not sure, but I guess --
- MR. SILVERMAN: -- that's my point.
- MR. GROSSMAN: -- I guess, in part, you're

Page 31

Page 33

- 1 know, they don't -- their jurisdiction over existing power
- 2 plants is a little bit loosey-goosey. Nonetheless, these
- 3 rules in these areas that do not cover us are helpful. I
- 4 mean, they provide useful guidance.
- 5 For example, prevention of significant
- 6 deterioration, the issue that it addresses is how do you
- 7 keep good air quality good without hurting the economy, and
- 8 there's a long history of policy making and investigation in
- 9 this area, and typically at a PSD analysis, you say, well,
- 10 this particular facility will use up one-third of our
- 11 available clean air, you know, get us a third closer to the
- 12 standard, 25 percent or 30 percent closer to the standard,
- 13 and it will create how many jobs, two, three, four, is that
- 14 a wise budgeting exercise. And again, just as an example,
- 15 that is the kind -- now, that's not a health issue. That's,
- 16 that's, I don't know, we haven't heard testimony about
- 17 economic development and planning, but if the plan has an
- 18 economic development or jobs component, it would be a way of
- 19 analyzing things.
- 20 Similarly -- and I'll stop with this point -- the
- 21 National Environmental Policy Act does not apply to
- 22 Maryland. It applies to federal agencies, but on the other
- 23 hand, we have 40 years of experience on, you know, how to
- 24 detect -- how to analyze projects before they're designed
- 25 and how to detect clinkers and projects which are dubious.

- 1 responding to -- I think I made an observation, I can't
- 2 recall for sure, but I assume I put it in an e-mail -- that
- 3 is that the citation of the Sierra Club case was problematic
- 4 because it was referring to a particular type of major
- 5 producer of pollutants. And, although -- unfortunately, the
- 6 case itself, when I read it, it only mentioned that once,
- 7 and so I think it -- and the rest of the discussion didn't
- 8 mention that, but it was, but everything, all of the
- 9 regulations were under a section that only applied to that
- 10 specifically defined kind of producer, and my question was,
- 11 are you suggesting that this proposed Costco gasoline
- 12 station falls into that definition of major producer of
- 13 these particular kinds of pollutants --
- 14 MR. SILVERMAN: No.
 - MR. GROSSMAN: -- and I take it the answer is no.
- 16 MR. SILVERMAN: No. No. I have to --
- MR. GROSSMAN: So that case really doesn't apply la directly.
- MR. SILVERMAN: I have to say I was very pleased
- 20 to get your question because I certainly ask people to read21 abstruse legal documents and sometimes they do and sometimes
- 22 they don't, but you clearly did and I appreciate that, but I
- 23 just wanted to make the three points.
- MR. GROSSMAN: Okay.
- MR. SILVERMAN: When he raised it, it -- there's

Page 34 Page 36

- 1 no, there's no federal or state law that really says this is
- 2 safe, and three, still you can get guidance from these --
- 3 MR. GROSSMAN: All right. Dr. Adelman, you 4 have --
- 5 MR. ADELMAN: Yes. Mr. Grossman, please stop me
- 6 if I'm going too far afield, but something you said about
- 7 stormwater management --
- 8 MR. GROSSMAN: Yes.
- 9 MR. ADELMAN: -- brought to mind for me an issue
- 10 that I've been wrestling with for some time, have in fact
- 11 had extensive discussions with planning staff about, and
- 12 that is the notion that if a regulation is in existence, for
- 13 example, the proper management of stormwater runoff --
- 13 example, the proper management of stormwater fundings
- 14 MR. GROSSMAN: Right.
- MR. ADELMAN: -- then planning staff must assume
- 16 that that regulation will be in effect. That is to say that
- 17 it is not in their bailiwick to decide whether they think
- 18 it's likely that the County will or will not enforce certain
- 19 guidelines.
- MR. GROSSMAN: Well, that's correct. I mean, they
- 21 would -- I don't run the technical staff. It reports to --
- 22 MS. ADELMAN: Right.
- MR. GROSSMAN: -- the Planning Board and the
- 24 Maryland-National Capital Park and Planning Commission, but
- 25 yes, I would assume that they're going to follow whatever

- ${\bf 1}\,$ applicable county, state, and federal regulations. So I'm
- 2 not, I'm not -- that's not my job to make policy.
- 3 MR. ADELMAN: Right. I understand. So I'll leave
- 4 it at this: We do have a very specific point to make, and
- 5 we will make that in our testimony.
- 6 MR. GROSSMAN: Okay. All right. Are we ready to
- 7 move along? All right. So I think where we start up here
- 8 was asking Mr. Sullivan to clarify this, and maybe we'll,
- 9 since you need -- you still don't have copies, is that
- 10 correct?
- 11 MS. ROSENFELD: Right, correct.
- MR. GROSSMAN: Okay. So let's take a five-minute
- 13 break. I'll run some --
- 14 MR. SILVERMAN: Can I get one too?
- MR. GROSSMAN: Yes. How many do we need now? So
- 16 I see five hands. Okay. So we'll make at least six copies
- 17 of this. We'll take a five-minute break, and then everybody
- 18 will have a copy of it.
- (Whereupon, a brief recess was taken.)
- MR. GROSSMAN: All right. So we're back on the
- 21 record. I've made copies of Exhibit 189(b) for those who
- 22 didn't have it. Unfortunately, the pages are not numbered
- 23 in Exhibit 189(b). So now I've been handed some substitute
- 24 pages, and I guess we'll call those Exhibit 189(b)(1) or
- 25 (b)(i). And I would request that in the future that anybody

Page 35

Page 37

- 1 the existent regulations are.
- MR. ADELMAN: Well, I'm proceeding, and please
- 3 correct me if I'm wrong, that you would take the same
- 4 position about future impact, or maybe not, but my question
- 5 goes to the following: If, at the time these hearings are
- 6 being conducted --
- 7 MR. GROSSMAN: Yes.
- 8 MR. ADELMAN: -- there is evidence that a
- 9 particular system -- stormwater management, whatever, noise
- 10 abatement, et cetera -- is in fact not working, is that
- 11 within your sphere of judgment? In other words, I'm not
- 12 talking about a future situation but a current situation.
- MR. GROSSMAN: Well, that's a bit too hypothetical
- 14 for me here because I don't want to be, as the saying goes,
- L5 hoisted on my own petard later if I --
- 16 MR. ADELMAN: Okay. All right.
- MR. GROSSMAN: -- if I think that I have to --
- 18 MR. ADELMAN: All right.
- MR. GROSSMAN: -- vary from this, but generally
- 20 speaking, I'm going to follow whatever the regulations are,
- 21 and even if they appear not to be working, I'm not a
- 22 policymaker here. I mean, when I cast my vote, I guess I
- 23 am, as a citizen, I'm that kind of a policymaker, but here I
- 24 am following whatever the Council policy is in Montgomery
- 25 County as established by its zoning ordinance and by other

- 1 who submits -- anybody who submits reports, please number
- 2 the pages. Okay. This will be Exhibit 189(b)(i), and
- 3 Mr. Goecke, what, which pages are these substituting for?
- 4 MR. GOECKE: 2 and 3 --
- 5 MR. GROSSMAN: Pages 2 and 3.
- 6 MR. GOECKE: -- was the unnumbered 189(b).
- 7 MR. GROSSMAN: Okay. Okay. So these are new, new
- 8 pages 2 and 3 for Exhibit 189(b).
- 9 MS. ADELMAN: Mr. Grossman --
- 10 MR. GROSSMAN: Yes, Ms. Adelman.
- 11 MS. ADELMAN: -- could I make a request that in
- 12 photographs such as this, especially when it's determined
- 13 wind direction south, that you have a north arrow as the
- 14 commonplace so you can --
- 15 MR. GROSSMAN: That would be --
- 16 MS. ADELMAN: -- orient yourself.
- MR. GROSSMAN: That would be lovely, and in all
- 18 circumstances, I would request the same thing. And we
- 19 always hope that it's pointing up for north because --
 - MS. ADELMAN: Yes, we do.
- MR. GROSSMAN: -- because hearing examiners are
- 22 easily disoriented, as is evidenced by your switch in
- 23 positions here. All right. So Exhibit 189(b)(i) will be
- 24 revised pages 2 and 3 of Exhibit 189(b).
 - (Exhibit No. 189(b)(i) was

25

	Page 38		Page 40
4 5 6 7 8 9 10 11	MS. CORDRY: Mr. Grossman, if I might ask a question? MR. GROSSMAN: Yes. MS. CORDRY: I understood from when this was distributed that a CD was going to be sent out with these things which I don't believe was that sent? MR. GOECKE: It was sent, yes. MS. CORDRY: Okay, because I MS. ROSENFELD: It was? MR. GROSSMAN: Yes. Did you receive it? MS. CORDRY: No, I didn't get a copy. Did you get	1 2 3 4 5 6 7 8 9 10 11 12	Page 40 MR. GOECKE: Sure. Sure. (Witness was previously sworn.) DIRECT EXAMINATION (Resumed) BY MR. GOECKE: Q Mr. Sullivan, why don't you just tell us a bit about what Exhibit 189(b) is, generally, and what you did in producing it. A That particular exhibit was done MR. GROSSMAN: By the way, I should remind you, Mr. Sullivan, you're still under oath. THE WITNESS: Yes, sir. MR. GROSSMAN: Okay. THE WITNESS: And for the record, I'm David
14 15 16 17 18 19 20 21 22 23 24	but MS. CORDRY: Okay. MR. GOECKE: You should have. MS. ROSENFELD: Okay. If I did, I'll MS. CORDRY: Was there some other place where you could download them or something like that, because I did not MR. GOECKE: There was. We sent out I sent out two different links with the information.	13 14 15 16 17 18 19 20 21 22 23 24 25	Sullivan, Sullivan Environmental Consulting, Alexandria, Virginia. The exhibit that you're referring to was done to clarify. I attempted to clarify presentations I made on the 17th and 19th of June. That was the intention. For example, I went to a flip chart and made some calculations. I provided documentation so those could be evaluated and reviewed independently. Also, during that, those days of testimony, Mr. Grossman did make the observation that none of the charts or tables we've shown so far showed what the impacts would be without including the contribution from along the roadways going to the facility, and so the objective was to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	point, but I was hoping to get the CD because it's a lot faster than trying to download the MS. ROSENFELD: If you could send Karen hard copies when you send me the hard copies, as well. MS. HARRIS: Yes. I mean, typically we've been sending them to Eleanor Duckett, Michele MS. ROSENFELD: Right. MS. HARRIS: Silverman, and Adelman MS. ROSENFELD: Yes.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	also show those tables, which I'll describe in some detail. And, finally, those the request for certain backup information that we referred to as the CD, which was actually just computer files, that would enable the Kensington Heights folks to evaluate what we've done, to get the files and so forth and the backup information, that was all included in this particular document. So the intent was to clarify. I apologize for one of these tables. It was, it was confusing and it was not correct, and I can walk through that now. So, Mr. Grossman, the fact that you were confused, there's a good reason for that. MR. GROSSMAN: Is a good sign? THE WITNESS: Yeah, because I went in on the day after the Fourth of July and I was confused initially myself. So, again, I apologize to all involved. Should I go to that particular table, Mr. Goecke?

19 certainly add you. 19 Q Yes, let's do that. 20 MS. CORDRY: Please. 20 And I'm looking at the original version here, but MR. GROSSMAN: All right. Well, if those I'll walk you through this, and there's a supplement that 21 21 22 logistical things are worked out, so let's turn back to, does show the corrections as well. 23 Mr. Sullivan is going to explain now Exhibit 189(b). I 23 And so again, now we're on page 2 of Exhibit

MS. HARRIS: No, you hadn't been, but we can

18

24 don't know -- Mr. Goecke, did you want to lead him in
25 questioning about that?
24 189(b) and there's some charts here, and tell us what these
25 charts show.

18

BY MR. GOECKE:

Page 42 Page 44

- Okay. This chart is very similar to what's in the
- 2 November 2012 expert report, and basically, what we're
- 3 looking at here is incremental gas station only, looking at
- 4 volatile organic carbon concentrations, and the mostly
- 5 relevant information is down at the bottom, the risk values.
- 6 And if I look at the numbers showing 6.7 to the minus 7,
- 7 that's .7 in a million, .08 in a million for the school, and
- 8 .02 in a million for the pool, these are numbers including
- 9 the cars coming to the gas station along the various
- 10 roadways. The --
- 11 Q And so let's be clear about that. That number 12 represents only the cars coming to the gas station?
- 13 A Represents everything. In other words, it
- 14 represents the incremental risks from the gas station
- 15
- operations and it includes all the sources, including the
- 16 cars coming along University, Veirs Mill, Georgia Avenue,
- 17 and the ring road that is specifically going just to the gas
- station. They're included in those numbers.
- Q And how do these numbers differ from what you 19 20 presented before?
- 21 A These would be comparable. The numbers that are
- 22 different are the ones in the row down below it which say
- 23 Cancer Risk-Gas Station Only. This would be without the
- 24 cars traveling on those roadways I just mentioned, taking
- 25 that out of the risk calculations because of the fact that

- MR. GROSSMAN: Right. Let me ask you a little bit about your notation, the method of notation there. For
- example, 6.70E-07, what does that E stand for?
- 4 THE WITNESS: It's scientific notation. So this
- would be 6.7 times 10 to the minus seven --
- 6 MR. GROSSMAN: Okay.
- 7 THE WITNESS: -- which again would be the same as
- 8 .7 in a million --
- 9 MR. GROSSMAN: Okay.
- THE WITNESS: -- risk. So the point I'm making, 10
- for volatile organic compounds and the risk assessment, it 11
- didn't make a great deal of difference for the closest home.
- It went -- we're talking about 6.3 versus 6.7 in a million,
- or .63 versus .67 in a million. For the school and the
- pool, the risks were already low. They did drop further on
- 16 that basis, and --
- 17 MR. GROSSMAN: When you say they did drop further, you mean that if you don't include the approach roadways,
- 19 that the risk is lower?
 - THE WITNESS: Is lowered, lowered, correct.
- 21 MR. GROSSMAN: Okay. Okay.
- 22 THE WITNESS: So that's the -- this is the answer,
- and again, this is with everything included in the column
- that says Cancer Risks, and the column that says Cancer
- Risk-Gas Station Only is without the approach roadways
- Page 43

20

- included. So that would be the VOCs. Where it got, where
 - it got confusing and where the data was, needed
 - clarification was on fine particulate matter.
 - MR. GROSSMAN: All right. Well, hold on, before
 - you get to there, a second. Sorry, I just want to make sure
 - 6 that --
 - 7 MR. ADELMAN: Can you shrink that so we can see
 - 8 the whole --
 - 9 THE WITNESS: Sure, make sure we can still read
 - 10 it. Is that enough?
 - 11 MR. ADELMAN: Yes, once more, I think.
 - MR. GROSSMAN: All right. So this first chart on
 - the top of page Exhibit 189(b)(i) is showing me the
 - incremental cancer risk increase both with the gas station
 - only and with everything included as separate, as separate 15
 - rows? 16

12

- 17 THE WITNESS: That's correct.
- MR. GROSSMAN: All right. And so to take an 18
- example here, the risk with everything included at the
- 20 school is 7.96 times 10 to the minus eight what per what?
- THE WITNESS: That's .08 in a million. 21
- 22 MR. GROSSMAN: Yes. .08 in a million. What does
- 23 that -- in a million what?
- 24 THE WITNESS: Per million people --
- 25 MR. GROSSMAN: Okay.

1 if they don't build a Costco gas station, one can presume

- they'll build some other commercial facility, there's cars
- 3 going to it as well.
- 4 For VOCs and the risks --
- 5 MR. SILVERMAN: I object because he's now
- 6 presuming what's going to happen in the future. This site
- 7 has been vacant for many years.
- MR. GROSSMAN: Okay. Repeat the statement that 8 9 you made that he objected to.
- THE WITNESS: I said that we could presume that in 10
- 11 the future, I don't know if I said may or could, there could 12 be a commercial operation in this location that would have
- 13 vehicles going to it much like the gas station would.
- 14 MR. GROSSMAN: All right. Well, there has been, 15 there's been testimony here that, that if in fact this gas
- station were not placed on the site, that Westfield would
- 17 lease this property out as also a pad site. So I don't
- think it's an illegitimate comparison for this witness to 18 19 make, and so I'll overrule that objection.
- 20 MR. GOECKE: And in fact, Mr. Grossman, just to
- 21 point out, I think this was in response to the hypothetical 22 you had raised at the last hearing: assuming another pad
- site were to be installed, what would be the delta between 24 the proposed gas station and this other hypothetical pad
- 25 site?

	Page 46		Page 48
,		,	to do . Lunderstand your concept, and if Lunderstand
1	THE WITNESS: if they were exposed 70 years		to do I understand your concept, and if I understand
2	24/7 to that concentration.	2	correctly, .08 essentially is a tenth of a person in a
3	MR. GROSSMAN: All right. So because I don't	3	million, is what you're saying. So
4	know that that's noted on the chart. I think that's why I	4	THE WITNESS: Yes.
5	was confused. Exposure person 24/7 for 70 years? THE WITNESS: Yes, sir.	5 6	MR. GROSSMAN: one in 10 million, which I think is what Dr. Chase was
6	MR. CHASE: Mr. Grossman	-	
7		7	THE WITNESS: Correct, approximately. MB. CROSSMAN: So and in 10 million of the popular
8	MR. GROSSMAN: Yes, sir.	8	MR. GROSSMAN: So one in 10 million of the people
9	MR. CHASE: may I ask a question that I think would clarify it?	9	exposed for 70 years 24/7 would be at risk for cancer or would be a likely candidate for cancer as a result of this
10 11	MR. GROSSMAN: All right, sir. Well, identify	10 11	exposure?
	yourself for the record so the court reporter knows who's	12	
12	speaking.	13	THE WITNESS: But just to clarify, I'm using the EPA risk assessment paradigm, and it has as is stated in
14	MR. CHASE: We have to prove this, but	14	EPA documents, it doesn't translate directly to cancer,
15	MR. GROSSMAN: Well, identify yourself for the	15	quote/unquote, cancer risk. It's used as a risk management
16	record. Sir	16	strategy. It has
17	MS. ADELMAN: It's Dr. Chase.	17	MR. GROSSMAN: Okay.
18	MR. GROSSMAN: Dr. Chase?	18	THE WITNESS: conservatism embedded into it
19	MS. CORDRY: Dr. Chase.	19	MR. GROSSMAN: Okay.
20	MR. CHASE: Yeah.	20	THE WITNESS: on cancer potency scores.
21	MR. GROSSMAN: You have to identify yourself for	21	MR. GROSSMAN: All right. But what I'm going to
22	the record so the court reporter knows who's speaking up.	22	suggest is, since I think that in terms of understanding
23	MR. CHASE: Don't talk?	23	what these charts mean, the use of the scientific notation
24	MR. GROSSMAN: Your name?	24	is confusing, and I'd like to see Exhibit 189(b)(i)
25	MR. GOECKE: Identify yourself. What's your name?	25	reproduced and we can call it a new Exhibit 189(b) double
	Page 47		Page 49
1	Page 47 MR. CHASE: Oh, I'm Dr. Chase, Ken Chase.	1	i without the scientific notation and stated rather in
1 2	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right.	1 2	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or
	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me		i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with
2	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people.	2	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the
2	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's	2 3 4 5	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan
2 3 4 5 6	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the	2 3 4 5 6	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh.
2 3 4 5 6 7	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You	2 3 4 5 6 7	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the
2 3 4 5 6 7 8	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our	2 3 4 5 6 7 8	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it
2 3 4 5 6 7 8 9	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case	2 3 4 5 6 7 8 9	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue
2 3 4 5 6 7 8 9	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in	2 3 4 5 6 7 8 9	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would
2 3 4 5 6 7 8 9 10	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in scientific notation. We shouldn't have. It would have been	2 3 4 5 6 7 8 9 10	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would be, I guess, prior to cross-examination to know what was
2 3 4 5 6 7 8 9 10 11	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in scientific notation. We shouldn't have. It would have been clearer in normal English	2 3 4 5 6 7 8 9 10 11	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would be, I guess, prior to cross-examination to know what was said here.
2 3 4 5 6 7 8 9 10 11 12	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in scientific notation. We shouldn't have. It would have been clearer in normal English MR. GROSSMAN: Right.	2 3 4 5 6 7 8 9 10 11 12 13	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would be, I guess, prior to cross-examination to know what was said here. THE WITNESS: I think it would be helpful.
2 3 4 5 6 7 8 9 10 11 12 13	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in scientific notation. We shouldn't have. It would have been clearer in normal English MR. GROSSMAN: Right. THE WITNESS: and it's not, but for the record	2 3 4 5 6 7 8 9 10 11 12 13	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would be, I guess, prior to cross-examination to know what was said here. THE WITNESS: I think it would be helpful. MR. GROSSMAN: All right. Okay. So then let's,
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in scientific notation. We shouldn't have. It would have been clearer in normal English MR. GROSSMAN: Right. THE WITNESS: and it's not, but for the record that's, again, just so it's very clear	2 3 4 5 6 7 8 9 10 11 12 13 14 15	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would be, I guess, prior to cross-examination to know what was said here. THE WITNESS: I think it would be helpful. MR. GROSSMAN: All right. Okay. So then let's, let's move down to your next chart.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in scientific notation. We shouldn't have. It would have been clearer in normal English MR. GROSSMAN: Right. THE WITNESS: and it's not, but for the record that's, again, just so it's very clear MR. GROSSMAN: So	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would be, I guess, prior to cross-examination to know what was said here. THE WITNESS: I think it would be helpful. MR. GROSSMAN: All right. Okay. So then let's, let's move down to your next chart. THE WITNESS: Correct. Now, this, this, I have to
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in scientific notation. We shouldn't have. It would have been clearer in normal English MR. GROSSMAN: Right. THE WITNESS: and it's not, but for the record that's, again, just so it's very clear MR. GROSSMAN: So THE WITNESS: for the home, .08 in a million;	2 3 4 5 6 7 8 9 10 11 12 13 14 15	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would be, I guess, prior to cross-examination to know what was said here. THE WITNESS: I think it would be helpful. MR. GROSSMAN: All right. Okay. So then let's, let's move down to your next chart. THE WITNESS: Correct. Now, this, this, I have to say, it was an embarrassing error, and I, again, I apologize
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in scientific notation. We shouldn't have. It would have been clearer in normal English MR. GROSSMAN: Right. THE WITNESS: and it's not, but for the record that's, again, just so it's very clear MR. GROSSMAN: So THE WITNESS: for the home, .08 in a million; for the7 in a million for the home, .08 in a million	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would be, I guess, prior to cross-examination to know what was said here. THE WITNESS: I think it would be helpful. MR. GROSSMAN: All right. Okay. So then let's, let's move down to your next chart. THE WITNESS: Correct. Now, this, this, I have to say, it was an embarrassing error, and I, again, I apologize for this. I'm sure that folks have noticed that this has
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in scientific notation. We shouldn't have. It would have been clearer in normal English MR. GROSSMAN: Right. THE WITNESS: and it's not, but for the record that's, again, just so it's very clear MR. GROSSMAN: So THE WITNESS: for the home, .08 in a million; for the7 in a million for the home, .08 in a million for the school, and .022 in a million for the pool.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would be, I guess, prior to cross-examination to know what was said here. THE WITNESS: I think it would be helpful. MR. GROSSMAN: All right. Okay. So then let's, let's move down to your next chart. THE WITNESS: Correct. Now, this, this, I have to say, it was an embarrassing error, and I, again, I apologize for this. I'm sure that folks have noticed that this has the old this is PM 2.5, fine particulate matter, and it
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in scientific notation. We shouldn't have. It would have been clearer in normal English MR. GROSSMAN: Right. THE WITNESS: and it's not, but for the record that's, again, just so it's very clear MR. GROSSMAN: So THE WITNESS: for the home, .08 in a million; for the7 in a million for the home, .08 in a million	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would be, I guess, prior to cross-examination to know what was said here. THE WITNESS: I think it would be helpful. MR. GROSSMAN: All right. Okay. So then let's, let's move down to your next chart. THE WITNESS: Correct. Now, this, this, I have to say, it was an embarrassing error, and I, again, I apologize for this. I'm sure that folks have noticed that this has
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in scientific notation. We shouldn't have. It would have been clearer in normal English MR. GROSSMAN: Right. THE WITNESS: and it's not, but for the record that's, again, just so it's very clear MR. GROSSMAN: So THE WITNESS: for the home, .08 in a million; for the7 in a million for the home, .08 in a million for the school, and .022 in a million for the pool. MR. GROSSMAN: All right.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would be, I guess, prior to cross-examination to know what was said here. THE WITNESS: I think it would be helpful. MR. GROSSMAN: All right. Okay. So then let's, let's move down to your next chart. THE WITNESS: Correct. Now, this, this, I have to say, it was an embarrassing error, and I, again, I apologize for this. I'm sure that folks have noticed that this has the old this is PM 2.5, fine particulate matter, and it has the old standard in here of 15 micrograms instead of 12,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in scientific notation. We shouldn't have. It would have been clearer in normal English MR. GROSSMAN: Right. THE WITNESS: and it's not, but for the record that's, again, just so it's very clear MR. GROSSMAN: So THE WITNESS: for the home, .08 in a million; for the7 in a million for the home, .08 in a million for the school, and .022 in a million for the pool. MR. GROSSMAN: All right. MS. ROSENFELD: What was that number for the pool	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would be, I guess, prior to cross-examination to know what was said here. THE WITNESS: I think it would be helpful. MR. GROSSMAN: All right. Okay. So then let's, let's move down to your next chart. THE WITNESS: Correct. Now, this, this, I have to say, it was an embarrassing error, and I, again, I apologize for this. I'm sure that folks have noticed that this has the old this is PM 2.5, fine particulate matter, and it has the old standard in here of 15 micrograms instead of 12, and it has the old 2009-based background values in it. So
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. CHASE: Oh, I'm Dr. Chase, Ken Chase. MR. GROSSMAN: All right. MR. CHASE: 7.96E-08 in scientific notation to me means 7.96 out of 100 million people. THE WITNESS: Well, just in terms of numbers, it's really 7 point it's .08 in a million. If we keep the million as our, as our reference point, it's .08. You divide by 100 to make it 10 to the minus six. In our regular report, we showed per million, but in this case like I say, these tables are confusing we showed it in scientific notation. We shouldn't have. It would have been clearer in normal English MR. GROSSMAN: Right. THE WITNESS: and it's not, but for the record that's, again, just so it's very clear MR. GROSSMAN: So THE WITNESS: for the home, .08 in a million; for the7 in a million for the home, .08 in a million for the school, and .022 in a million for the pool. MR. GROSSMAN: All right. MS. ROSENFELD: What was that number for the pool again?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	i without the scientific notation and stated rather in terms of, you know, risks, either risks per million or number of people per 10 million, whatever it is, and with the qualification, if you have a qualification, just as the one you just noted, Mr. Sullivan THE WITNESS: Uh-huh. MR. GROSSMAN: then that should be noted on the chart too, because I think this is a confusing chart as it stands. But for purposes for today, I guess we can continue on if you think that would be helpful or I think it would be, I guess, prior to cross-examination to know what was said here. THE WITNESS: I think it would be helpful. MR. GROSSMAN: All right. Okay. So then let's, let's move down to your next chart. THE WITNESS: Correct. Now, this, this, I have to say, it was an embarrassing error, and I, again, I apologize for this. I'm sure that folks have noticed that this has the old this is PM 2.5, fine particulate matter, and it has the old standard in here of 15 micrograms instead of 12, and it has the old 2009-based background values in it. So these, this chart I should have looked at much more

25 the numbers are in the order of 10.8 to 10.9. The corrected

MR. GROSSMAN: I think what I'm going to ask you

Page 52

- 1 version will clarify both of those, those issues.
- 2 But in terms of the question that was raised,
- 3 well, how much of the impacts are from the gas station
- 4 operations themselves versus vehicles getting to the gas
- station, and in this case here, the incremental gas station
- contribution is shown as .0023 micrograms per cubic meter to
- 7 the closest home as compared to the total modeling, which is
- 8 .005. So in answer to your question, you know, a lot of the
- 9 impacts are coming from other, from the transportation
- 10 sources getting there. I would like to clarify for the
- 11 record, however, that these incremental gas station numbers
- 12 are for the gas station itself, the queuing of the cars, the
- 13 enter/exit of the cars, and so forth. It does not include
- 14 the delivery trucks. Delivery trucks, of course, would come
- 15 to any commercial operation, but in terms of --
- 16 MR. GROSSMAN: You mean the fuel delivery trucks?
- 17 THE WITNESS: Fuel delivery trucks.
- MR. GROSSMAN: Okay. 18
- THE WITNESS: But in terms of -- that can be 19
- 20 clarified in the next version that says, well, for example,
- if they were included, the home would go from .002 to .003
- 22 and the school and pool would increase to .001 approximately
- for each of them. So I can clarify that in the future
- 24 because generally the delivery trucks are embedded in the
- 25 roadway impacts. We pull them out for our tables and our

- in the corrected version, is I can make that very clear,
- with and without delivery trucks, what the numbers look
- like, to make sure the record is clear.
- 4 MS. ROSENFELD: And how many.
 - MR. GROSSMAN: Correct.
- 6 THE WITNESS: It would be the same as we assumed
- in our report. Our --7
 - MR. GROSSMAN: And --
- 9 THE WITNESS: -- November 2012 report was four.
 - MR. GROSSMAN: Right, but bear in mind that you
- know what you said a lot better than we know what you said.
- So try not to make any assumptions about what we remember
- from one chart to the next and make each chart 13
- self-explanatory because, although some of us here may be
- scientists, others are only wishful thinkers in that area. 15
- 16 So, also, what's the distinction in your chart,
- 17 your second chart here on the page, between incremental gas
- station only and total modeled? Is that the same
- 19 distinction you're making above? What is the distinction it
- 20 goes to?
- 21 THE WITNESS: Correct. Let me just find the
- 22 numbers here. Well, for example, if I'm looking at the line
- that says Incremental Gas Station Only under Fine
- 24 Particulates --
- 25 MR. GROSSMAN: Right.

Page 51

1

Page 50

5

8

10

- THE WITNESS: -- the .0023 micrograms per cubic
- meter at the home, that's without delivery trucks, gasoline
- 3 delivery trucks, and it's without the approach roadways
- being included --
- 5 MR. GROSSMAN: Okay.
- 6 THE WITNESS: -- Veirs Mill and Georgia Avenue and 7 so forth.
- 8 MR. GROSSMAN: And total modeled?
- 9 THE WITNESS: Totaled modeled is right in the line
- 10 below. Like .005 is the total modeled for the closest home.
- 11 MR. GROSSMAN: Yes, but total modeled includes the
- 12 delivery trucks and the roadways?
- 13 THE WITNESS: Yes, sir, it does.
- 14 MR. GROSSMAN: Okay. Okay. So, also, would you note that? I mean, what you need, I guess, is a little key
- 16 on your table to describe what these labels stand for
- 17 because, while it's clear in your head, it's not clear in
- ours unless you say it. 18
- 19 THE WITNESS: Agreed.
 - MR. SILVERMAN: Can I get one more clarification?
- 21 MR. GROSSMAN: Yes, Mr. Silverman.
- 22 MR. SILVERMAN: Does this include fast-food
- 23 restaurants too?
- 24 THE WITNESS: It does not.
- 25 MR. GROSSMAN: I think what he means, total

- 1 report, but for this here we did not show the gas delivery trucks in these numbers, and I would just clarify what those 3 numbers would be with them included.
- 4 MR. SILVERMAN: Can I just get some clarification?
- 5 MR. GROSSMAN: Hold on one second. I do want you
- 6 to also, when you do your 189(b) double i, to put units in
- 7 there. If it's micrograms per cubic meter, it should say it
- on the chart somewhere. I don't. I don't see it on the 8
- 9 chart.
- 10 THE WITNESS: Agreed.
- 11 MR. GROSSMAN: That's why I didn't know what you 12 were referring to. All right. And, Mr. Silverman, what --
- 13 MR. SILVERMAN: How many delivery trucks are you 14 assuming per day?
- 15 THE WITNESS: Four delivery trucks per day.
- 16 MR. SILVERMAN: Four, okay.
- 17
- MS. CORDRY: And just, you said fuel delivery
- trucks. Other uses you would -- never mind. Other uses 18
- wouldn't have fuel delivery trucks, but you were just 19
- 20 modeling if you --
- 21 THE WITNESS: Well, what I'm saying is the other
- 22 operations would have some kind of delivery trucks. 23 Presumably they could be diesel delivery trucks, maybe
- they're not -- we're assuming for here that they would have
- delivery trucks as well. What I'm saying is in the final,

20

Page 54 Page 56 1 modeled as it relates to what would be produced in relation other parts of his --2 2 to the proposed gas station. So the gas station operation MS. CORDRY: In fact -itself, he has a line that is, presumably includes the 3 MR. GROSSMAN: But once again, I mean, he can if pumping and the people -- and the cars gueued, and then he -- if the applicant wants to produce that piece of total modeled, it means the pumps, the queued cars, plus the evidence, they can. All I'm saying is, once they produce a 6 roadways and the fuel deliveries, correct? chart that shows me something, I want to understand what 7 7 THE WITNESS: Correct. it's showing. 8 MS. ROSENFELD: And --8 MS. ROSENFELD: Well, then --9 MR. GROSSMAN: All right. So that should be said 9 MS. CORDRY: Let me ask it a different way. Like, 10 on the chart. 10 for instance, Table 1.1-14 in your original report has a 11 MS. ROSENFELD: And parking lots? Will the 11 whole series of rows and columns, breaking out these 12 parking lots be included? different components. Is this simply a matter of taking 12 13 THE WITNESS: Parking lots -- well, first of all, certain rows and adding them up on this particular chart? 13 14 PM annual is in the middle section of that table. That 14 THE WITNESS: That's correct. As you're moving -would include the parking lots and other sources. MS. CORDRY: So that if we wanted to do a similar 15 15 16 MS. ROSENFELD: The ones that you modeled. thing for rural, we could add the same rows that you're 17 THE WITNESS: Correct. The incremental gas 17 adding and come out to these kinds of, at least come out to station shown on the far right would not include the 18 -- well, we should be able to come out to the same thing 19 warehouse or the parking lots. It's incremental for the gas because your, in other words, your chart has, say, Rows 1 to 20 station. 10 and you're, in this incremental, you're using, say, Row 21 MS. ROSENFELD: Okay. Could you note under each 21 1, 3, 5 and 6, is that correct? 22 column which specific areas are included? 22 THE WITNESS: Correct, taking out roadways, for 23 THE WITNESS: Sure. 23 example --MR. GROSSMAN: Or in some way, key it in some way 24 24 MS. CORDRY: Right. 25 so we can understand. 25 THE WITNESS: -- taking out the ring road and Page 55 Page 57

12

13

23

Table 1-14 has --

```
MS. ROSENFELD: Key it somehow, right.
 1
          MS. ADELMAN: And --
 2
 3
          MR. GROSSMAN: Ms. Adelman.
          MS. ADELMAN: -- Mr. Grossman, to complete this
 4
   documentation, we all know this, but could you note that
 6
   it's a PM 2.5 that we're modeling here, because there are
 7
    other --
 8
          MR. GROSSMAN: Okay.
9
          MS. ADELMAN: -- PMs, like PM 10.
10
          MR. GROSSMAN: Right. That's a good point as
11
    well.
12
          MS. ROSENFELD: And I have one more question. You
   ran this under the urban standards. Could you also --
13
14
          THE WITNESS: Correct.
15
          MS. ROSENFELD: -- do an equivalent chart using
16
   rural numbers?
17
          THE WITNESS: I can.
          MR. GROSSMAN: Well, let's put it this way: He's
18
   entitled to put out the evidence that he wants to put out,
```

and I'm not going to ask him to create new evidence, citing

MS. ROSENFELD: But he has used rural numbers in

additional things. I just want to make sure that what he

MS. ROSENFELD: But he has used --

MR. GROSSMAN: -- and I can analyze.

has put out we can understand --

19 20

21

22

23

24

25

```
roadways and re-computing --
 1
 2
          MS. CORDRY: Right.
 3
          THE WITNESS: -- and so it can be done.
 4
          MS. CORDRY: So if you just tell us I'm using
    Rows, my incremental over here is maybe Rows 1, 3, 5, and 6
    and the total was 1 through 10, we can then do exactly the
 7
    same thing and take --
 8
          MR. GROSSMAN: I don't know if you can or you
 9
    can't. I mean, that'll, you can present it --
10
          MS. CORDRY: But that's my question to him. Is
```

14 you referring to?
 15 MS. CORDRY: Table 1-14, which is in his November
 16 report.
 17 MR. GROSSMAN: Okay. I just want the record to be
 18 clear what you're --

that what you're doing? You're simply taking specific rows

MR. GROSSMAN: When you say that's here, what are

MS. CORDRY: Right. I'm sorry.MR. GROSSMAN: You're looking at a computer, which

out of a table that's here that we could --

we all can't see.MS. CORDRY: Right, and that was the question, but

MR. GROSSMAN: Okay.

25 MS. CORDRY: -- some number of rows and you could

Page 58 Page 60

nply 1 606 total modeled, and for the pool, 58, total incremental

- 1 -- if what I understand you to be saying is you're simply
- 2 pulling out certain of those rows as is and adding them up
- 3 and coming to these numbers, then we can do the same thing
- with the other, which is what you've testified the EPA says,
- 5 just using rural, we can do that for ourselves as well?
- 6 MR. GROSSMAN: Well, no, I'm not going to have him
- 7 answer that -- whether you can do it or not, you can't do
- 8 it, that's not really a clarification question as to what
- 9 he's put out.
- MS. CORDRY: Well, it is a clarification question
- 11 if it's a question --
- MR. GROSSMAN: Well, then you can ask it on
- 13 cross-examination, okay?
- 14 MS. CORDRY: Okay, fine. I'm just trying to
- 15 clarify what --
- 16 MR. GROSSMAN: Right.
- MS. CORDRY: -- that chart comprises.
- 18 MS. ROSENFELD: And, Mr. Grossman, if I could ask
- 19 a different question. I'd like to ask the applicant
- 20 consider providing these numbers using the rural standards
- 21 as well.
- MR. GROSSMAN: All right. Once again, that's up
- 23 to the applicant if he --
- MS. ROSENFELD: I understand. For the record, I'm
- 25 making that request.

- 2 modeled, versus 565.
- 3 MR. GROSSMAN: Yes. Once again, you should use
- the unit, specify the units that are being used for this.
 THE WITNESS: All the helpful suggestions for the
- 6 previous slide --
- 7 MR. GROSSMAN: Right.
- 8 THE WITNESS: -- I'll put on this slide.
- 9 MR. GROSSMAN: Okay, thank you.
 - THE WITNESS: And that's really all -- that's,
- 11 that's really all I had on that. We will provide a version
- 12 of this that is in clear English that's readily
- 13 understandable.

10

18

- MR. GROSSMAN: Okay. Were there any other things
- 15 in 189(b), you have other sections in here --
- THE WITNESS: I do. How much of this did you want
- 17 to go through?
 - BY MR. GOECKE:
- 19 Q Well, let's just go through it quickly here. So
- 20 Section 2, you're referring to documentation of Slide 25
- 21 regarding queues and for calculations used during oral
- 22 presentation. What does the documentation of Slide 25 show?
- 23 A It's just showing the basis for the Slide 25 in
- 24 my, in the PowerPoint presentation. There was a request
- 25 made for backup information. That information was provided.

Page 59

- 1 MR. GROSSMAN: Right. All right. All right.
- 2 BY MR. GOECKE:
- 3 Q Mr. Sullivan, did you want to address that at all,
- 4 the urban versus rural?
- 5 A Well, my, as I stated earlier, the, the close-in
- 6 locations to the, to the gas station -- the home, closest
- 7 home, the school and the pool -- are very close; they're
- 8 adjacent to the mall property. And while we agree that
- 9 EPA's three-kilometer radius circle says it's rural for that
- 10 area, have modeled accordingly for the general area and
- 11 shown those results, for these close-in locations I don't
- 12 agree that the rural numbers are representative and so
- 13 that's why I used the urban values for the close-in three
- 14 receptors.
- 15 Q Thank you.
- 16 A All good points raised, and yes, we can clarify
- 17 which rows were used to make it easier to reconstruct, and
- 18 again, I apologize, that table was confusing.
- The NO -- the CO and NOX are more straightforward,
- 20 more easier, and again, we're showing the situation, first
- 21 of all, for CO. And so without the, without the roadways
- 22 included, the incremental gas station only, without
- 23 roadways, I'm showing, for carbon monoxide, the closest home
- 24 being 128 micrograms per cubic meter versus 530 in total
- 25 modeled. In terms of the school, it's 14 micrograms versus

- 1 Q Okay.
- 2 MR. GROSSMAN: But what --
- 3 THE WITNESS: There was a question raised about
- 4 the --
- 5 MR. GROSSMAN: I see.
- 6 THE WITNESS: -- the queuing assumptions and what
- 7 assumptions made in the calculations, and the Excel, I
- 8 believe that was, Excel spreadsheet was provided that
- 9 provided the basis for our calculations for Slide 25.
- MR. GROSSMAN: And when you're saying the attached
- .1 files for quantification of the extent of conservatism
- 12 embedded in the modeling analysis, you're not saying
- 13 attached to this document, 189(b)?
- 14 THE WITNESS: No. I had, that's attachment -- it
- 15 was a series of electronic files that were attached.
- 16 MR. GROSSMAN: Okay, but --
- MR. GOECKE: And those attachments we did produce
- 18 too.
- MR. GROSSMAN: Right, but, but -- okay, all right,
- 20 but it's not in Exhibit 189(b)?
- THE WITNESS: No, it's not in my copy.
- MR. GROSSMAN: Okay. So the attached is referring
- 23 to something else.
- 24 THE WITNESS: Electronic --
- 25 MR. GROSSMAN: Okay.

Page 62 Page 64 1 THE WITNESS: -- files. THE WITNESS: And specifically, I was referring to 2 MR. GOECKE: Correct. It -the quote that states: Although the EPA asks us to vacate 3 MR. GROSSMAN: All right. and remand the parts of its ruling codifying SILs at 4 MR. GOECKE: -- would be 189(c) in this example, paragraph such and such, it requests that we let the 5 Supplemental Materials, Section 2.0. promulgation of SILs in another paragraph remain operative. 6 MR. GROSSMAN: Right. Okay. Section 3? So that, to me, that was an indication as a non-lawyer that 7 THE WITNESS: Section 3 provided some background EPA was not fully abandoning the SIL concept. It's an information relative to the question that, that Mr. Grossman important concept, and it's very much needed on air quality 8 raised about providing some context for the particle counts, 9 regulation. you know, can we describe the particle counts from the gas 10 MS. CORDRY: I don't think that's what we actually 11 station compared to other locations. In this particular 11 stated it was doing, but --12 section, I provided a reference with the intent of trying to 12 MR. GROSSMAN: All right. 13 provide some clarification on that point. It's a rough 13 MS. CORDRY: -- you can read the case yourself and see what it actually says. 14 comparison, but it was able to show -- it's referring to 14 15 numbers in the order of hundreds per cubic centimeter as THE WITNESS: As I say, I'll leave it up to the 15 16 compared to hundred of thousand for exposure near, in the lawyers. There's plenty of lawyers in the room. 16 17 indoor environment and quite a bit higher counts, as well, 17 BY MR. GOECKE: near major highways. The whole objective was to provide a And then the next section of your report, 18 Mr. Sullivan, referring to the AERMOD files, so again, this 19 reference, provide some context. The opposition has the 19 20 opportunity to review that and come up with their own is supplemental data supporting the conclusions you had 21 conclusions as well. 21 reached and testified about in prior hearings, is that MR. GROSSMAN: All right. 22 22 correct? 23 THE WITNESS: Section 4, I'm going to leave this 23 A Correct. I mean, I think we're really referring up to the lawyers in the room to sort this one out, the SIL to Section 7 -- yeah, that would be Section 7, correct. I

Page 63

2

3

4

5

6

7

8

9

10

12

13

14

16

17

18

19

20

21

22

23

24

Page 65

1 ruling, and from my non-lawyer's perspective, it certainly did not -- I didn't read this as saying that SILs are no longer operative. In fact, EPA -- and, in fact, the ruling 4 indicated that they were still operative. 5 So I think that needs to have maybe some legal 6 clarification, but from a technical point of view, my use of the concept of significant impact levels was strictly to provide a point of reference. So if EPA is taking the position that 0.3 micrograms per cubic meter or fine 10 particulates is the threshold for significance versus 11 non-significance and if the gas station is 30 times under 12 that standard, that guideline, let's say, which they are, 13 then that provides the finder of fact with a reference point 14 of the significance versus non-significance of the impacts. 15 BY MR. GOECKE: 16 Q Okay. And then I believe you also provided some 17 articles that had been requested in the prior hearing, the Abernathy fast-food article? 18 19 A That's correct.

MR. GROSSMAN: So hold on one second. So you're

saying that, that the section you're just discussing, you're

referring to the Sierra Club case? Is that what you're

THE WITNESS: Yes, sir.

MR. GROSSMAN: Okay.

issue. I just was providing some quotes from the actual

MR. GOECKE: Excuse me, Mr. Grossman. I'd just like to approach just again to make sure we're --MR. GROSSMAN: Sure. MR. GOECKE: -- talking about the same document. THE WITNESS: The AERMOD, go to seven. MR. GOECKE: Right, yeah. MR. GROSSMAN: Really, you can't whisper to the witness on the stand. So now state out loud what you just whispered. MR. GOECKE: What I just said to him was, he had spoken a moment ago about the significant impact level standards from the EPA case --MR. GROSSMAN: Yes. MR. GOECKE: -- and I think there might have been some confusion in the room because it wasn't corresponding to the document we had in front of us. MR. GROSSMAN: Right. MR. GOECKE: That's because he's reading from an earlier draft of this document --MR. GROSSMAN: I see. MR. GOECKE: -- not from the document that was submitted. So I'm not trying to be secretive. I'm just trying to --MR. GROSSMAN: I assumed you weren't. I just, for the record, you have to -- you can't whisper to the witness

was providing the files as requested, as was Section 8.

saying?

20

22

23

24

	Page 66		Page 68
_			
1	on the stand.	1	ready to resume Ms. Rosenfeld's cross-examination.
2	MR. GOECKE: I understand. I understand.	2	MR. SILVERMAN: I think that would be good, but I
3	MR. GROSSMAN: Okay.	3	would like to reserve the right to cross-examine on new
4	MR. GOECKE: I'll go back to my chair.	4	information.
5	MR. SILVERMAN: Do I understand this is not, this is not the document he's testifying to, or I'm a little	5 6	MR. GOECKE: Of course. MR. GROSSMAN: Absolutely.
6	confused. What are we doing?	7	•
	MR. GOECKE: This is absolutely the document he's		MR. SILVERMAN: Thank you, which would include, also, the Washington Council of Governments report that was
8	testifying to.	8	submitted.
10	MR. GROSSMAN: This being Exhibit 189(b).	10	MR. GROSSMAN: Yes, absolutely in fairness.
11	MR. GOECKE: 189(b), that's right.	11	MR. SILVERMAN: Thank you.
12	MR. GROSSMAN: Okay.	12	MR. GROSSMAN: So you'll remind me of that when
13	MR. SILVERMAN: He's adding commentary about	13	MR. SILVERMAN: I definitely will.
14	quotes that are presented here which are not presented here.	14	MR. GROSSMAN: I was assuming you would. All
15	MR. GOECKE: Right.	15	right. Ms. Rosenfeld.
16	MR. SILVERMAN: Okay.	16	MS. ROSENFELD: Thank you.
17	MR. GOECKE: Right. He was responding to your	17	CROSS-EXAMINATION (Resumed)
18	comments	18	BY MS. ROSENFELD:
19	MR. SILVERMAN: Right.	19	Q Good morning, Mr. Sullivan.
20	MR. GOECKE: about the EPA case and that was,	20	A Good morning.
21	as you now know, in an earlier draft of the document. It's	21	Q Your November 2012 report includes a noise
22	not in the official Exhibit 189(b). So for purposes of	22	analysis, doesn't it?
23	clarity, we're trying to move forward.	23	A Yes.
	MR. GROSSMAN: So Section 4 of the document that		And become the demonstrations to the major
24	MR. GROSSMAN. So Section 4 of the document that	24	Q And have you filed any revisions to the noise
24 25	is in, that's what he thought he was referring to	25	analysis since you submitted the November 2012 report?
25	is in, that's what he thought he was referring to Page 67	25	analysis since you submitted the November 2012 report? Page 69
25	is in, that's what he thought he was referring to Page 67 MR. GOECKE: That's right.	25	analysis since you submitted the November 2012 report? Page 69 A Let me look at my I don't recall revising it,
25 1 2	is in, that's what he thought he was referring to Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the	25 1 2	analysis since you submitted the November 2012 report? Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January.
25	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a	25	analysis since you submitted the November 2012 report? Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one
1 2 3	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it	25 1 2 3	analysis since you submitted the November 2012 report? Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise
1 2 3 4	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at	1 2 3 4	analysis since you submitted the November 2012 report? Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one
1 2 3 4 5	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it	1 2 3 4 5	analysis since you submitted the November 2012 report? Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas
1 2 3 4 5 6	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at all; it's just another section that doesn't exist anymore in	1 2 3 4 5 6	analysis since you submitted the November 2012 report? Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas station. I
1 2 3 4 5 6 7	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at all; it's just another section that doesn't exist anymore in the documents?	1 2 3 4 5 6 7	Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas station. I Q But not
1 2 3 4 5 6 7 8	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at all; it's just another section that doesn't exist anymore in the documents? MR. GOECKE: Correct, it's a section that does not	1 2 3 4 5 6 7 8	Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas station. I Q But not A don't recall making changes since then.
1 2 3 4 5 6 7 8 9	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at all; it's just another section that doesn't exist anymore in the documents? MR. GOECKE: Correct, it's a section that does not exist anymore. So	1 2 3 4 5 6 7 8 9	Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas station. I Q But not A don't recall making changes since then. Q Not since then. I didn't find any in here.
1 2 3 4 5 6 7 8 9	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at all; it's just another section that doesn't exist anymore in the documents? MR. GOECKE: Correct, it's a section that does not exist anymore. So MR. GROSSMAN: Okay. All right.	1 2 3 4 5 6 7 8 9	Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas station. I Q But not A don't recall making changes since then. Q Not since then. I didn't find any in here. A Oh, good.
1 2 3 4 5 6 7 8 9 10	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at all; it's just another section that doesn't exist anymore in the documents? MR. GOECKE: Correct, it's a section that does not exist anymore. So MR. GROSSMAN: Okay. All right. MR. GOECKE: so his commentary on the EPA case,	1 2 3 4 5 6 7 8 9 10	Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas station. I Q But not A don't recall making changes since then. Q Not since then. I didn't find any in here. A Oh, good. Q How many gallons of gasoline a year did you assume
1 2 3 4 5 6 7 8 9 10 11 12	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at all; it's just another section that doesn't exist anymore in the documents? MR. GOECKE: Correct, it's a section that does not exist anymore. So MR. GROSSMAN: Okay. All right. MR. GOECKE: so his commentary on the EPA case, while helpful, is not	1 2 3 4 5 6 7 8 9 10 11	Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas station. I Q But not A don't recall making changes since then. Q Not since then. I didn't find any in here. A Oh, good. Q How many gallons of gasoline a year did you assume would be sold at the let me start this: You did base some of your modeling on noise analysis that you conducted at the Sterling, Virginia, gas station, didn't you?
1 2 3 4 5 6 7 8 9 10 11 12 13	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at all; it's just another section that doesn't exist anymore in the documents? MR. GOECKE: Correct, it's a section that does not exist anymore. So MR. GROSSMAN: Okay. All right. MR. GOECKE: so his commentary on the EPA case, while helpful, is not MR. GROSSMAN: Okay. MR. SILVERMAN: I'm glad you clarified that because I was getting very confused.	1 2 3 4 5 6 7 8 9 10 11 12 13	Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas station. I Q But not A don't recall making changes since then. Q Not since then. I didn't find any in here. A Oh, good. Q How many gallons of gasoline a year did you assume would be sold at the let me start this: You did base some of your modeling on noise analysis that you conducted
1 2 3 4 5 6 7 8 9 10 11 12 13 14	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at all; it's just another section that doesn't exist anymore in the documents? MR. GOECKE: Correct, it's a section that does not exist anymore. So MR. GROSSMAN: Okay. All right. MR. GOECKE: so his commentary on the EPA case, while helpful, is not MR. GROSSMAN: Okay. MR. SILVERMAN: I'm glad you clarified that because I was getting very confused. BY MR. GOECKE:	1 2 3 4 5 6 7 8 9 10 11 12 13 14	Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas station. I Q But not A don't recall making changes since then. Q Not since then. I didn't find any in here. A Oh, good. Q How many gallons of gasoline a year did you assume would be sold at the let me start this: You did base some of your modeling on noise analysis that you conducted at the Sterling, Virginia, gas station, didn't you? A We did do noise modeling at the Sterling gas station as a reference point, to get an idea of the noise
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at all; it's just another section that doesn't exist anymore in the documents? MR. GOECKE: Correct, it's a section that does not exist anymore. So MR. GROSSMAN: Okay. All right. MR. GOECKE: so his commentary on the EPA case, while helpful, is not MR. GROSSMAN: Okay. MR. SILVERMAN: I'm glad you clarified that because I was getting very confused. BY MR. GOECKE: Q Here's 189(b).	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas station. I Q But not A don't recall making changes since then. Q Not since then. I didn't find any in here. A Oh, good. Q How many gallons of gasoline a year did you assume would be sold at the let me start this: You did base some of your modeling on noise analysis that you conducted at the Sterling, Virginia, gas station, didn't you? A We did do noise modeling at the Sterling gas station as a reference point, to get an idea of the noise levels from a similar type of gas station
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at all; it's just another section that doesn't exist anymore in the documents? MR. GOECKE: Correct, it's a section that does not exist anymore. So MR. GROSSMAN: Okay. All right. MR. GOECKE: so his commentary on the EPA case, while helpful, is not MR. GROSSMAN: Okay. MR. SILVERMAN: I'm glad you clarified that because I was getting very confused. BY MR. GOECKE: Q. Here's 189(b). A. Okay. Yeah, basically, I was I need to stay	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas station. I Q But not A don't recall making changes since then. Q Not since then. I didn't find any in here. A Oh, good. Q How many gallons of gasoline a year did you assume would be sold at the let me start this: You did base some of your modeling on noise analysis that you conducted at the Sterling, Virginia, gas station, didn't you? A We did do noise modeling at the Sterling gas station as a reference point, to get an idea of the noise levels from a similar type of gas station Q Okay.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at all; it's just another section that doesn't exist anymore in the documents? MR. GOECKE: Correct, it's a section that does not exist anymore. So MR. GROSSMAN: Okay. All right. MR. GOECKE: so his commentary on the EPA case, while helpful, is not MR. GROSSMAN: Okay. MR. SILVERMAN: I'm glad you clarified that because I was getting very confused. BY MR. GOECKE: Q Here's 189(b). A Okay. Yeah, basically, I was I need to stay away from the legal issues and stick with the technical	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas station. I Q But not A don't recall making changes since then. Q Not since then. I didn't find any in here. A Oh, good. Q How many gallons of gasoline a year did you assume would be sold at the let me start this: You did base some of your modeling on noise analysis that you conducted at the Sterling, Virginia, gas station, didn't you? A We did do noise modeling at the Sterling gas station as a reference point, to get an idea of the noise levels from a similar type of gas station Q Okay. A that's correct.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 67 MR. GOECKE: That's right. MR. GROSSMAN: and that, the Section 4 of the document that is in does not refer to the, does not make a reference to it? I thought maybe he was saying obliquely it made a reference to it. Is that what he's saying or not at all; it's just another section that doesn't exist anymore in the documents? MR. GOECKE: Correct, it's a section that does not exist anymore. So MR. GROSSMAN: Okay. All right. MR. GOECKE: so his commentary on the EPA case, while helpful, is not MR. GROSSMAN: Okay. MR. SILVERMAN: I'm glad you clarified that because I was getting very confused. BY MR. GOECKE: Q. Here's 189(b). A. Okay. Yeah, basically, I was I need to stay	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 69 A Let me look at my I don't recall revising it, but let me look at my, at my supplemental report in January. I don't have that handy. I don't believe I have that one handy. My testimony would be that I did update the noise analysis in November of 2012 for the relocation of the gas station. I Q But not A don't recall making changes since then. Q Not since then. I didn't find any in here. A Oh, good. Q How many gallons of gasoline a year did you assume would be sold at the let me start this: You did base some of your modeling on noise analysis that you conducted at the Sterling, Virginia, gas station, didn't you? A We did do noise modeling at the Sterling gas station as a reference point, to get an idea of the noise levels from a similar type of gas station Q Okay.

22

MR. GROSSMAN: All right. Anything else you want

MR. GROSSMAN: Okay. All right. So I guess we're

23 to say about clarifying Exhibit 189(b)?

MR. GOECKE: No, thank you.

22

24

25

A Well, we -- Sterling sold more. I think it was 30

23 percent more. I don't remember the exact number of gallons,

24 but there was no assumptions made. I mean, we basically, in

25 doing noise monitoring, we put a monitor over four different

- 1 days and collected noise measurements for that particular
- 2 operation.
- 3 Q On page 8 of your report, you say the Costco
- 4 Sterling gas station is expected to sell 30 percent more
- 5 fuel than in Wheaton. How did you get that 30 percent
- 6 differential?
- 7 MR. GOECKE: I'm sorry. Which report are you
- 8 referring to?
- 9 MS. ROSENFELD: I'm referring to his November
- 10 19th, 2012, report, and I'm looking at page 8 of that
- 11 report.
- MR. GOECKE: Thank you.
- THE WITNESS: That information, as I recollect,
- 14 would have come from Costco.
- 15 BY MS. ROSENFELD:
- 16 Q In conducting your study, what did you assume to
- 17 be the maximum permissible noise level on the mall parcel?
- 18 A Well, in conducting the noise study, the noise
- 19 monitoring?
- 20 Q In your noise modeling.
- 21 A Well, we, at the time when we met with Parks and
- 22 Planning, we were discussing an LDN number, which is one of
- 23 the ways that they compute noise with a penalty for
- 24 nighttime operations, and at the time, we're talking about
- 25 65 decibels. Since then I do recognize that the levels, it

- MR. GOECKE: I object. Is she asking about his
- 2 legal understanding or his methodology to establish noise
- 3 levels?

Page 70

- 4 MR. GROSSMAN: Yes, that's fair. I think -- are
- 5 you asking what he used in reaching any conclusions he
- 6 reached, or are you asking -- I'm not sure what you're
- 7 asking.
- 8 MS. ROSENFELD: Well, in his analysis he concludes
- 9 that the noise levels emitted are not in violation of the
- LO noise ordinance, and the noise ordinance makes a distinction
- 11 between noise that is transmitted from a non-residential
- 12 area to a residential area. So I'm just trying to get a
- 13 factual understanding of what his, what his modeling premise
- 14 was based upon.
 - MR. GROSSMAN: Okay.
- THE WITNESS: Well, the -- my, my understanding
- 17 was that the residential properties for the south and so
- 18 forth and Kensington Heights was residential properties.
- 19 The pool complex would be non-residential.
 - BY MS. ROSENFELD:
- 21 Q And was your noise modeling based on average noise
- 22 levels?

15

20

- 23 A It was based upon the peak traffic expected.
- 24 incremental traffic. It was looking at the number of cars
- 25 expected for the gas station operations. I mean, we did, we

Page 71

Page 73

- 1 depends upon whether it's residential or non-residential,
- 2 but they are, they're different than that and the new, the
- 3 most -- the current noise ordinance does not, does not
- 4 notice an LDN penalty included.
- 5 Q So did you understand it to be 65 decibels?
- 6 A For residential I understand it to be, during the
- 7 nighttime, 55 decibels.
- 8 Q Okay. Sixty-five during the day and 55 at night?
- 9 A For residential, correct.
- 10 Q And where did you derive those standards?
- 11 A County documents. I don't remember the exact
- 12 location.
- Q Are you familiar with Montgomery County's noise
- 14 ordinance contained in Chapter 31B of the county code?
- 15 A I'd have to, I mean, I'm referring to -- I've read
- 16 about the 55 versus 65 and the 67 versus 62 for
- 17 non-residential. I don't, I can't remember the exact
- 18 citation for the county, but it's a county document.
- 19 Q Do you understand the mall parcel to be in a
- 20 non-residential area as defined under the county noise
- 21 ordinance?
- A Do I understand the mall parcel? My
- 23 understanding, the mall itself is not a residential area.
- 24 Q Okay. And that the adjoining properties to the
- 25 south of the mall parcel are in a residential area?

- 1 did include incremental impacts in there that were not
- 2 included in our background noise monitoring, which would
- 3 include Dick's Sporting Goods, the Costco warehouse, and the
- 4 cars going to the gas station specifically. That's what was
- 5 included in the modeling.
- 6 Q You reached certain numbers? You determined that
- 7 there were certain numbers that were lower than 65 and 55
- 8 decibels during the daytime and during the nighttime,
- 9 correct?
- 10 A Well, we computed model output with, with and
- 11 without the wall, which had acoustical properties. We
- 12 showed the results both ways.
- 13 Q Right. Is that number premised on an averaging of
- 14 noise levels?
- 15 A It's based upon the traffic counts which, as I
- 16 understood them, for Dick's and the warehouse would have
- 17 been peak.
- 18 Q So, in essence, you took what you considered to be
- 19 the peak-hour traffic and you ran that as a model and that
- 20 was --
- 21 A That's my recollection, yes.
 - Q Okay. Did you assume at any time that motor
- 23 vehicles are exempt from the noise ordinance, noise from
- 24 motor vehicles are exempt?
- 25 A I did not.

	Page 74		Page 76
			-
1	Q In your report you		of laws, it's just a matter of convenience having it in the
2	MR. GROSSMAN: Let me ask you a question. What	2	file but the real, the actual law is what would control,
3 4	are you referring to when you say that noise from motor vehicles is exempt from the regulations? What regulation	3 4	obviously. All right. So 195(b) is a portion of Title 3, Maryland Environmental Code. And 195(c) is COMAR
5	are you referring to when you make that assumption?	5	26.02.03.01, also relating to noise standards. Okay.
6	MS. ROSENFELD: I'm referring to Montgomery	6	(Exhibit Nos. 195(a) through
7	County's noise ordinance contained in Chapter 31B. I'm	7	195(c) were marked for
8	referring to Maryland's environmental code, Sections 3-101	8	identification.)
9	through 105 and	9	MS. ROSENFELD: And, Mr. Grossman, just to orient
10	MR. GROSSMAN: And what specific language in that,	10	you to the regulatory scheme that I am using for my
11	in those provisions are you talking about?	11	cross-examination, if you look first at Chapter 31B, Noise
12	MS. ROSENFELD: I have copies, and COMAR.	12	Control
13	MR. GROSSMAN: Because I know that technical staff	13	MR. GROSSMAN: Yes.
14	does measure noise from motor vehicles as part of what it	14	MS. ROSENFELD: there's a declaration of
15	does in assessing noise. So I'm not sure what you're	15	policy, that the statute is provided to, among other things,
16	relying on.	16	protect public health and welfare and to allow the peaceful
17	MR. SILVERMAN: Speaking of noise, I wonder if we	17	enjoyment of property.
18	could cut off the projector.	18	MR. GROSSMAN: Right.
19	MR. GROSSMAN: Are we going to be using	19	MS. ROSENFELD: It does contain the 65/55 decibel
20	MS. ROSENFELD: I will not be using the projector	20	limitations that Mr. Sullivan has testified to
21	for this piece of my	21	MR. GROSSMAN: Yes.
22	MR. GROSSMAN: All right. MS. ROSENFELD: questioning.	22	MS. ROSENFELD: and if you look at Section
23 24	MR. GROSSMAN: Mr. Goecke, do you mind if we cut	23 24	31B-5(a)(3) MR. GROSSMAN: Okay.
25	off the projector?	25	MS. ROSENFELD: which is on the second to last
	on the projection.		Michiel Michiel Coll Michiel College
	Page 75		Page 77
1	Page 75 MR. GOECKE: I don't mind at all.	1	
1 2		1 2	Page 77 page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set
	MR. GOECKE: I don't mind at all.		page, it does say sound that crosses between residential and
2	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much.	2	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set
2	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on	2	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are
2 3 4 5	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter	2 3 4	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned.
2 3 4 5	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law.	2 3 4 5	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a
2 3 4 5 6 7 8	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right.	2 3 4 5 6 7 8	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard.
2 3 4 5 6 7 8 9	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from	2 3 4 5 6 7 8 9	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct.
2 3 4 5 6 7 8 9	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise	2 3 4 5 6 7 8 9	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay.
2 3 4 5 6 7 8 9 10	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control.	2 3 4 5 6 7 8 9 10	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under
2 3 4 5 6 7 8 9 10 11	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control. MR. GROSSMAN: All right.	2 3 4 5 6 7 8 9 10 11 12	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under legislative findings discusses the public health welfare
2 3 4 5 6 7 8 9 10 11 12	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control. MR. GROSSMAN: All right. MS. ROSENFELD: And the final are excerpts from	2 3 4 5 6 7 8 9 10 11 12	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under legislative findings discusses the public health welfare concerns
2 3 4 5 6 7 8 9 10 11 12 13	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control. MR. GROSSMAN: All right. MS. ROSENFELD: And the final are excerpts from COMAR, Maryland's code of regulations.	2 3 4 5 6 7 8 9 10 11 12 13 14	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under legislative findings discusses the public health welfare concerns MR. GROSSMAN: Yes.
2 3 4 5 6 7 8 9 10 11 12	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control. MR. GROSSMAN: All right. MS. ROSENFELD: And the final are excerpts from COMAR, Maryland's code of regulations. MR. GROSSMAN: Would you like me to mark these as	2 3 4 5 6 7 8 9 10 11 12	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under legislative findings discusses the public health welfare concerns MR. GROSSMAN: Yes. MS. ROSENFELD: that prompted that statute.
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control. MR. GROSSMAN: All right. MS. ROSENFELD: And the final are excerpts from COMAR, Maryland's code of regulations.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under legislative findings discusses the public health welfare concerns MR. GROSSMAN: Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control. MR. GROSSMAN: All right. MS. ROSENFELD: And the final are excerpts from COMAR, Maryland's code of regulations. MR. GROSSMAN: Would you like me to mark these as exhibits? Is that what you're	2 3 4 5 6 7 8 9 10 11 12 13 14 15	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under legislative findings discusses the public health welfare concerns MR. GROSSMAN: Yes. MS. ROSENFELD: that prompted that statute. Under 3-105 it does authorize local jurisdictions to adopt
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control. MR. GROSSMAN: All right. MS. ROSENFELD: And the final are excerpts from COMAR, Maryland's code of regulations. MR. GROSSMAN: Would you like me to mark these as exhibits? Is that what you're MS. ROSENFELD: Sure.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under legislative findings discusses the public health welfare concerns MR. GROSSMAN: Yes. MS. ROSENFELD: that prompted that statute. Under 3-105 it does authorize local jurisdictions to adopt noise control ordinances provided they are not less
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control. MR. GROSSMAN: All right. MS. ROSENFELD: And the final are excerpts from COMAR, Maryland's code of regulations. MR. GROSSMAN: Would you like me to mark these as exhibits? Is that what you're MS. ROSENFELD: Sure. MR. GROSSMAN: Okay. So we're up to Exhibit 194.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under legislative findings discusses the public health welfare concerns MR. GROSSMAN: Yes. MS. ROSENFELD: that prompted that statute. Under 3-105 it does authorize local jurisdictions to adopt noise control ordinances provided they are not less stringent than the state code.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control. MR. GROSSMAN: All right. MS. ROSENFELD: And the final are excerpts from COMAR, Maryland's code of regulations. MR. GROSSMAN: Would you like me to mark these as exhibits? Is that what you're MS. ROSENFELD: Sure. MR. GROSSMAN: Okay. So we're up to Exhibit 194. So Exhibit 195(a) is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under legislative findings discusses the public health welfare concerns MR. GROSSMAN: Yes. MS. ROSENFELD: that prompted that statute. Under 3-105 it does authorize local jurisdictions to adopt noise control ordinances provided they are not less stringent than the state code. MR. GROSSMAN: Okay.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control. MR. GROSSMAN: All right. MS. ROSENFELD: And the final are excerpts from COMAR, Maryland's code of regulations. MR. GROSSMAN: Would you like me to mark these as exhibits? Is that what you're MS. ROSENFELD: Sure. MR. GROSSMAN: Okay. So we're up to Exhibit 194. So Exhibit 195(a) is MS. ROSENFELD: And is that the Maryland Code, the county code? MR. GROSSMAN: No. That's Chapter 31B on noise	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under legislative findings discusses the public health welfare concerns MR. GROSSMAN: Yes. MS. ROSENFELD: that prompted that statute. Under 3-105 it does authorize local jurisdictions to adopt noise control ordinances provided they are not less stringent than the state code. MR. GROSSMAN: Okay. MS. ROSENFELD: And 3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control. MR. GROSSMAN: All right. MS. ROSENFELD: And the final are excerpts from COMAR, Maryland's code of regulations. MR. GROSSMAN: Would you like me to mark these as exhibits? Is that what you're MS. ROSENFELD: Sure. MR. GROSSMAN: Okay. So we're up to Exhibit 194. So Exhibit 195(a) is MS. ROSENFELD: And is that the Maryland Code, the county code? MR. GROSSMAN: No. That's Chapter 31B on noise control from Montgomery County Code. That's 195(a). And	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under legislative findings discusses the public health welfare concerns MR. GROSSMAN: Yes. MS. ROSENFELD: that prompted that statute. Under 3-105 it does authorize local jurisdictions to adopt noise control ordinances provided they are not less stringent than the state code. MR. GROSSMAN: Okay. MS. ROSENFELD: And 3 MR. GROSSMAN: And do you contend that they are less restrictive than the state code in this case? MS. ROSENFELD: I have seen in the record the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control. MR. GROSSMAN: All right. MS. ROSENFELD: And the final are excerpts from COMAR, Maryland's code of regulations. MR. GROSSMAN: Would you like me to mark these as exhibits? Is that what you're MS. ROSENFELD: Sure. MR. GROSSMAN: Okay. So we're up to Exhibit 194. So Exhibit 195(a) is MS. ROSENFELD: And is that the Maryland Code, the county code? MR. GROSSMAN: No. That's Chapter 31B on noise control from Montgomery County Code. That's 195(a). And 195(b) will be the excerpt from Section, or Title 3 on the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under legislative findings discusses the public health welfare concerns MR. GROSSMAN: Yes. MS. ROSENFELD: that prompted that statute. Under 3-105 it does authorize local jurisdictions to adopt noise control ordinances provided they are not less stringent than the state code. MR. GROSSMAN: Okay. MS. ROSENFELD: And 3 MR. GROSSMAN: And do you contend that they are less restrictive than the state code in this case? MS. ROSENFELD: I have seen in the record the suggestion that motor vehicle noise would not be subject to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. GOECKE: I don't mind at all. MR. SILVERMAN: Thank you so much. MR. GROSSMAN: Thank you very much. Don't trip on there. MS. ROSENFELD: Mr. Grossman, I'm handing you three, three documents. The first are excerpts from Chapter 31B, Montgomery County's noise control law. MR. GROSSMAN: All right. MS. ROSENFELD: The second are excerpts from Maryland's environmental code governing noise, noise control. MR. GROSSMAN: All right. MS. ROSENFELD: And the final are excerpts from COMAR, Maryland's code of regulations. MR. GROSSMAN: Would you like me to mark these as exhibits? Is that what you're MS. ROSENFELD: Sure. MR. GROSSMAN: Okay. So we're up to Exhibit 194. So Exhibit 195(a) is MS. ROSENFELD: And is that the Maryland Code, the county code? MR. GROSSMAN: No. That's Chapter 31B on noise control from Montgomery County Code. That's 195(a). And	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	page, it does say sound that crosses between residential and non-residential noise areas must not exceed the levels set forth in paragraph 1 for residential noise areas, which are the same standards that I just mentioned. MR. GROSSMAN: My understanding of that is that the standard, whether it if it initiates from a non-residential area, the standard, and it crosses to a residential area, the standard is the residential standard. MS. ROSENFELD: That's correct. That's correct. MR. GROSSMAN: Right. Okay. MS. ROSENFELD: And the state code under legislative findings discusses the public health welfare concerns MR. GROSSMAN: Yes. MS. ROSENFELD: that prompted that statute. Under 3-105 it does authorize local jurisdictions to adopt noise control ordinances provided they are not less stringent than the state code. MR. GROSSMAN: Okay. MS. ROSENFELD: And 3 MR. GROSSMAN: And do you contend that they are less restrictive than the state code in this case? MS. ROSENFELD: I have seen in the record the

Page 78 Page 80 1 there may be any doubt about that, under the reading of the they're not being exceeded for the design of a community to county code, I would like to submit to you that the state protect the people within the community and -code does explicitly regulate motor vehicle noise on private 3 MS. ROSENFELD: And I -property, and that is contained in COMAR --4 MR. GROSSMAN: -- not the producers. The MR. GROSSMAN: Okay. community is not the producer of the noise; it's the 6 MS. ROSENFELD: -- 26.02.03.02, which is --6 recipient of the noise. 7 7 MR. GROSSMAN: I thought it's 26.02.03.01 --MS. ROSENFELD: Yes. 8 MS. ROSENFELD: Well, no, because --8 MR. GROSSMAN: So, but let me see what they, so 9 MR. GROSSMAN: -- oh, but is there a .02 in there 9 maybe that's -- do you know the page that you're referring 10 too? 10 to? 11 11 MS. ROSENFELD: -- it's contained in the MS. ROSENFELD: I don't. I believe it was in Amy 12 exemptions --12 Lindsey's report. And really, the point of this exercise is 13 MR. GROSSMAN: I see. that, to the extent that anybody would look to the 14 MS. ROSENFELD: -- which is under .02, guidelines as being the governing legal standards, it's my view that the governing legal standards are in the county 15 Environmental Noise Standards. 15 16 MR. GROSSMAN: They have such a quaint way of and state code. So --16 17 labeling these. 17 MR. GROSSMAN: Okay. Well, I would think that, 18 MS. ROSENFELD: Don't they? And those exemptions 18 yes, I would think that the county and state code would be 19 are listed on page 4 of 5. 19 more, would control in the extent, to the extent that 20 MR. GROSSMAN: All right. 20 there's a conflict --21 MS. ROSENFELD: Exempt from the state noise 21 MS. ROSENFELD: Yes, correct. 22 ordinance are motor vehicles on public roads; not exempt, of 22 MR. GROSSMAN: -- I'm not sure there's a conflict, course, would be motor vehicles on private roads. 23 but --24 MR. GROSSMAN: All right. Let me look for a 24 MS. ROSENFELD: And I'm not sure that there is --25 second. 25 MR. GROSSMAN: Okay. Page 79 Page 81 MS. ROSENFELD: It's on page 4 of 5 of the COMAR. MS. ROSENFELD: -- but I didn't see any reference 1 2 MR. GROSSMAN: Okay. anywhere else in the record to the county and state --3 MS. ROSENFELD: And so I just wanted to clarify, 3 MR. GROSSMAN: Okay. 4 if there was any question in your mind as to whether or not 4 MS. ROSENFELD: -- standards, and so I want to the 65/55 standards applied to noise emanating from the make sure that we're clear on that point. 5 noise parcel, from the mall parcel, and vehicular noise in 6 MR. GROSSMAN: Okay. 7 particular, it's my view that it's clearly governed by BY MS. ROSENFELD:

8 county and state law.

9 MR. GROSSMAN: Okay. Well, actually, hadn't given

10 it any thought but I'm glad you brought that to my

attention. Now, is there -- you said that you were alerted

12 to this concern by something you read in the record. Where

13 was that in the record?

14 MS. ROSENFELD: I believe that it was in the staff

report, that they looked to staff guidelines on noise --

16 MR. GROSSMAN: Yes.

17 MS. ROSENFELD: -- rather than to the county code

to determine compliance with noise regulations. 18

MR. GROSSMAN: Really? Well, there are staff 19

guidelines, but my recollection of the guidelines, they

21 would -- I can't recall that statement in there, but I'll

22 take a look -- they, staff refers to usually guidelines they

23 have to measure the amount of impact of traffic noise, for

24 example, on a community that's being designed, and so

25 they'll, they'll look to their guidelines to make sure

Q In your November 19, 2012, report, would you 8

9 please look at the chart on page 107 titled TNM Model

10 Results Without Background?

11 MR. GROSSMAN: Do you happen to remember the --12 Mr. Sullivan's November report is Exhibit, just so we make sure that we're, Exhibit 15(a)? Is that what we're talking

14 about? Just want to make sure that we're correctly citing 15 some --

16 MS. ROSENFELD: 15(a), yes.

MR. GROSSMAN: Okay, thank you.

BY MS. ROSENFELD: 18

19 Q Mr. Sullivan, do you have that in front of you?

20 Α I do.

Okay. What does TNM stand for? 21 Q

Traffic noise model. 22 Α

23 And where are those standards contained? Where

24 are they derived from? Are they local standards?

25 A TNM is a noise model. It's not a standard.

Page 82 Page 84 Okay. So it's a noise modeling system or -receivers. Are those receivers shown on page 105 under 1 2 It's noise model software. Figure 1-37? 3 Okay. Who produces that software? 3 A That's correct. 4 Α It's the Highway -- the Highway Administration, as

13

15

I recall. 6 Q The Federal Highway Administration?

7 That's my recollection, yes.

8 Okay. And do you know what the federal highway

9 traffic noise model studies are typically used for?

10 A They're used for more major roadways, would be my 11 expectation.

12 Q Are they used to, for example, determine whether 13 or not sound barriers are required in particular locations next to federal highways?

15 A That certainly could be one of the uses.

16 Okay. And are the assumptions that you use -- let

17 me ask this question: Table 1-22, that summarizes your

estimated noise levels at, for this project, is that

19 correct?

5

20 A It is. It shows it for different receivers, which

21 are labeled on the left side of Table 1-22, and it shows the

22 results with no barrier, accounting for no reduction from

any kind of acoustic wall; then it shows what the reduction

24 would be, noise levels would be with an eight-foot acoustic

25 wall.

1

4 Q They would be the yellow dots on that page?

6 Are the assumptions that you made in coming up

7 with your conclusions in Table 1-22, are they included in

Appendix X of your study?

A I want to confirm the appendicy numbering system.

Actually, the version of the report -- I don't have the

appendices in this version of my report in front of me. So

I can't answer your question. 12

MS. ROSENFELD: Mr. Grossman, if I may approach?

MR. GROSSMAN: Certainly. 14

BY MS. ROSENFELD:

Q I'm going to show you a copy of a document that's 16

17 titled Appendix X: TNM Noise Model Runs 2012. If you could

let me know, please, if that's --

19 A Thank you.

20 -- the appendix that contains the modeling

21 information for your noise conclusions.

22 A Yes, this is the noise modeling from my report,

23 November 2012 report.

24 Q Okay. There are a couple of charts in here.

25 There's one on page 359 and one on page 364 of Appendix X.

Page 83

1 Can you just explain to me the difference between these two

2 extra copy of the pages that I'll be asking him about --

MS. ROSENFELD: Mr. Grossman, I have, I have an

3 MR. GROSSMAN: Oh, okay, that would be great.

4 MS. ROSENFELD: -- would that be helpful to you?

MR. GROSSMAN: Sure. Then I don't have to dig 5

6 through this carton to get them out.

7 MS. ROSENFELD: Do you guys need a copy?

8 MR. GOECKE: Yes, that would be great. Thank you.

9 MR. GROSSMAN: Is that my copy that --

10 BY MS. ROSENFELD:

11 Q Oh, no, no. I'm sorry. Mr. Sullivan --

12 Oh.

13 -- that's for Mr. Grossman. You have your copy.

14 MR. GROSSMAN: You're trying to steal my copy,

right? 15

BY MS. ROSENFELD: 16

17 Q You have a copy.

A I've seen it before. 18

19 You have the, the copy.

20 MS. ROSENFELD: Okay. So I'm looking right now at

the chart on page 107, I believe, hang on, 107, and I

22 believe Mr. Sullivan just testified that that summarizes his

23 findings on noise.

24 BY MS. ROSENFELD:

25 Q And you said that it shows noise levels at certain

charts? 2

3 A I'm going to need to get some reading glasses.

4 This is pretty hard to read.

5 MR. GROSSMAN: So what am I comparing? Which

6 pages am I, charts am I comparing?

7 MS. ROSENFELD: 359. 8 MR. GROSSMAN: Okay.

9 MS. ROSENFELD: And 364.

10 MR. GROSSMAN: Okay.

MS. ROSENFELD: Mr. Grossman --11

12 MR. GROSSMAN: Yes.

MS. ROSENFELD: -- we probably should give this an 13

14 exhibit number.

MR. GROSSMAN: Okay. This will be Exhibit 196, 15

16 and this is -- is this the entire Appendix X, by the way?

MS. ROSENFELD: This is the entire Appendix X --

MR. GROSSMAN: Okay. So --18

19 MS. ROSENFELD: -- that I'm aware of.

20 MR. GROSSMAN: -- Appendix X to Exhibit 15(a), did 21 we say?

MS. ROSENFELD: Yes. 22

23 MR. GROSSMAN: 15(a), Sullivan Environmental

24 Report.

25 (Exhibit No. 196 was marked

17

Page 86 Page 88 1 for identification.) A Well, I mean, clearly, I did describe the fact 2 THE WITNESS: So you're referring to the run that that the height for the acoustic barrier would be different, 3 starts on page 359 as one of them and the other one that 3 but you're asking beyond that particular change? 4 starts on page 363? 4 Q No. No, just -- that answered my question. 5 BY MS. ROSENFELD: 5 MR. GROSSMAN: Did you turn it on so --Q 364. 6 6 MS. CORDRY: I had to turn on my computer, but 7 364, okay. The -- what was your question again? 7 it's hooked into his computer. So -- I was going to try to 8 I'm sorry. show the chart up here on the screen for everybody, but --Q It looks to me like the data in this, in these two 9 MR. GROSSMAN: I see. MS. CORDRY: -- but he's got the connection 10 charts is the same. Why are there two? What's the 10 11 difference? 11 modeled into his computer. 12 Well, the first page, showing the vehicles, is the 12 MR. GROSSMAN: I thought you were just trying to 13 same -- looks, appears to be the same, looking at the 13 irritate Mr. Silverman with the noise. MS. CORDRY: No. No. I was actually -- then I numbers. If you turn to the next page, 360, and also to 365, one thing you'll notice that is different is the height was trying to turn this back off again so that it would not 15 term, where on page 360, look at the bottom of the page irritate Mr. Silverman. 16 17 where the headers are --17 MR. GROSSMAN: Ms. Rosenfeld, let me interrupt for 18 Q Yes. a second just to ask, is it KHCA's contention that the 18 -- and go one, two, three, four, five, six headers 19 19 proposed gas station will create a noise level that will 20 from the left. You see Height at Point, and you're seeing 20 exceed the county standards? 21 zeros at that location --21 MS. ROSENFELD: It is. 22 MR. GROSSMAN: And you have evidence to that 22 Yes. 23 -- for those, and on page 365 you're seeing 2.44, 23 effect? 24 which is presumably the height of the acoustic wall. MS. ROSENFELD: I do and I think it's in 24 25 Q Okay. So the --25 Mr. Sullivan's report. Page 87 Page 89 MR. GROSSMAN: Okay. Go ahead. MR. GROSSMAN: That's the bottom chart on page 1 1 365? BY MS. ROSENFELD: 2 2 3 THE WITNESS: Correct. 3 Q Mr. Sullivan, if we go to page 360, if you look, BY MS. ROSENFELD: 4 there is a column four columns from the left. It says 5 Q So page 355 is the modeling for the acoustic wall, Impact Criteria and says dBA and there's a number 66 that 6 and page 360 is without the wall, right? run the full length of that chart. Could you tell me what 7 7 that 66 stands for? A That's my interpretation, yes. 8 Q Okay. Did you create this document? 8 A You're on page 360? 9 One of -- a modeler that works for me created the 9 Q On page 360. document. So I did not run the noise model. MR. GROSSMAN: That's the top chart, right? 10 10 11 Q Okay. If you look at the numbers on the chart on 11 MS. ROSENFELD: The top chart. 12 page 359, for example, where it says Automobiles and then it 12 THE WITNESS: As I say, I've not run, I did not particularly run this model. I can't verify what the 66 13 runs a certain, certain numbers under V, and then you go to 14 Trucks and it runs a certain number under V, it looks to me 14 pertains to specifically.

15 like the numbers, the data that was entered on Chart 359 is 16 the same as the data that was entered on Chart 364. Can you 17 -- would you corroborate that if it's your reading of that 18 chart? 19 A Well, correct. I mean, if the objective is to 20 compare the noise levels with and without the acoustic wall,

21 you'd want to have the same traffic counts on both runs. 22 Q Okay. So any modifications that would be applied

23 to the chart on 359 would equally apply to the chart on 365, 24 correct? If you were to make any changes to the data, you

25 would make it equally on both sides?

15 BY MS. ROSENFELD: 16 Q You don't know what that means? 17 A I'm saying I did not run the model. So I do not know -- I don't know this output, I mean, but I can 18 certainly get you an answer for that. I'm not going to 20 speculate. 21 MR. GROSSMAN: It's labeled -- well, it looks like 22 it's right between the dBA and dB. 23 THE WITNESS: It's confusing the way this is 24 printed out to really tell which column goes with which.

MR. GROSSMAN: But assuming it's -- well, whether

Page 90 Page 92 1 it's one or the other, I -be referring to any of the criteria that Ms. Rosenfeld has 2 MS. ROSENFELD: Well, it's -described in terms of noise levels and acceptable noise 3 MR. GROSSMAN: -- one's decibels and one's 3 levels. 4 average. 4 MR. GROSSMAN: Unless you determine that 66, being 5 MS. ROSENFELD: It's within a -one over the 65 that's permitted in the daytime, was the 5

10

Is that --8 MS. ROSENFELD: It's within a column that says 9 dBA.

MR. GROSSMAN: It's some reference for decibels.

10 MR. GROSSMAN: Okay. Yes, it gets -- you can't see the line, but I think you're right, yes. It's hard to 11 12 see the line on my printout, but --

13 MS. ROSENFELD: There is a line.

14 MR. GROSSMAN: -- I think that's correct. It's in 15 the, it's in the dBA column.

THE WITNESS: I see there's a dBA column. What 16 17 I'm saying is I can't, while I sit here today, tell you what that column particularly refers to. 18

BY MS. ROSENFELD: 19

20 Q You're talking about what that number stands for, 21 okay.

22 A I can certainly find out, but I'm saying, as I sit here today, I do not know.

24 Q Okay.

6

7

25 MR. GROSSMAN: The heading on that column, the outer limit. I don't know. I mean, I'm just, once again, I -- I guess we ought to get --

8 MS. ROSENFELD: Well, I'll accept Mr. Sullivan's testimony that he doesn't know what that number means.

MR. GROSSMAN: Okav.

11 BY MS. ROSENFELD:

12 Q If we could look at page 359. Under, on that chart there are four different areas, presumably of the mall 13

parcel. One is called Q-U-E, which I assume are the queues.

Do you know if that's the queues within the special

exception area or not? 16

17 A That's the max one-hour queue for the gas station.

18 And the parking lot would be which parking lot?

19 The parking lot would be to the, to the western

20 parking lot, and then the parking garage would be to the

21 east.

22 Okay. And then the ring road is also -- I'm

sorry. You said the first parking lot was to the west and

24 the second is to the east?

25 A The parking lot is to the west, and the parking

Page 91

1 whole series of columns there, is Input Sound Levels and

Criteria. Do you know what that is supposed to mean?

3 THE WITNESS: It could be referring to the

4 strength of the noise signal from the cars themselves as an

5 input, automatic input that goes into this model. In other

6 words, it may be an embedded default that's in the model,

that the 66 -- and I'm speculating -- could be the starting point of the noise source. It's not the output from the

9 model. It's not the noise levels at the receptors.

10 MR. GROSSMAN: Okay.

11 BY MS. ROSENFELD:

12 Q And you know that -- oh, because it says inputs,

13 not outputs. Okay.

14 MR. GROSSMAN: Right.

15 BY MS. ROSENFELD:

16 Q But you don't know where that number was derived

17 from?

A I've speculated, which I probably shouldn't do, 18

that it's probably an internal default to the model --19

20 Q Okay.

-- but I would have to confirm that. 21

22 MR. GROSSMAN: And right under that it says Impact

Criteria, and do you have an opinion as to what that

24

25 THE WITNESS: I do not. That certainly would not garage is to the east.

Okay. And if you look under the column -- the

broad heading is Segment. Under that there are subheadings:

Autos, Trucks, Trucks, Buses, and Motorcycles. Do you see

5 those?

7

15

17

6 A I do.

And under there at Point 1 -- there are different

points that are identified; 40, 40, 40, 40 under vehicles

9 slash hour. What does that 40 represent?

A Vehicles per hour. The input is vehicles per hour 10 11 going through a queue.

12 MR. GROSSMAN: What's the difference between an M

truck and an H truck? 13

14 THE WITNESS: Medium-duty vehicle versus heavy-duty vehicle --

16 MR. GROSSMAN: Okay.

THE WITNESS: -- is my expectation.

MR. GROSSMAN: Okav. 18

19 BY MS. ROSENFELD:

20 Q And parking lot vehicles per hour, you're assuming

307 --21

22 A Correct.

23 -- vehicles at each -- is that at each of those

24

25 A We're assuming that it's 307 vehicles going into

Page 94 Page 96

- 1 the parking lot per hour, and the garage would have 258.
- 2 It's assumed throughput through those operations.
- Q So under the que, it wouldn't be 40 plus 40 plus
- 4 40 plus 40; it's just 40?
- A We're assuming there's 40 cars queuing -- that are
- traveling at a certain rate of speed.
- 7 Q At an average hour, okay.
- 8 A At four kilometers per hour. So there's 40 cars
- 9 -- this is hypothetical, obviously; they're not, they're
- 10 not, they're mostly standing there and they're moving up
- once in a while -- but it's assuming 40 vehicles going at 11
- 12 four kilometers per hour.
- 13 Q And a total of 307 in the parking lot. So if I
- 14 cross out the bottom three 307s, it doesn't change, change
- 15 anything, correct?
- 16 A Correct, it doesn't change anything, no.
- 17 Q Okay. And the ring road, you're assuming 65
- 18 autos?
- A Sixty-five would be the incremental increase on 19
- 20 the ring road.
- 21 And the parking garage would be 256?
- 22
- 23 Okay. And then the same analysis would hold true
- 24 for the trucks? You're assuming one per hour, MT trucks?
- 25 Correct.

- -- talking about vehicles. Okay. 1
- 2 That is correct.
- 3 And one truck, one -- okay. So those numbers just
- 4 carry all the way across. All right. And your mileage, I
- think you said you're assuming that in the queue the
- vehicles are moving an average of four miles per hour?
- 7 Four kilometers per hour.
 - Oh, four kilometers. How many miles an hour is Ω
- 9 that?

8

10

15

23

- A Approximately two.
- MS. ADELMAN: Three. 11
- 12 THE WITNESS: Three.
- 13 MS. CORDRY: Two-and-a-half.
- 14 THE WITNESS: Two-and-a-half.
 - MS. ROSENFELD: I'd like the expert to answer the
- question, please. If the audience could refrain. 16
- 17 MR. GROSSMAN: We're all experts because we've all
- been in traffic at three miles an hour. So we -- yes, okay. 18
- MS. CORDRY: Well, a kilometer is .625 miles. 19
- MR. GROSSMAN: Yes. We'll --20
- 21 THE WITNESS: Well, it's approximately, it's
- 22 between two and three miles an hour.
 - MR. GROSSMAN: Right.
- 24 BY MS. ROSENFELD:
- 25 Q And in the parking lot you're assuming that

Page 95

- traffic is moving at 48 kilometers an hour?
- 2 Α Correct.
- 3 Q And how many miles an hour would that be?
- 4 Α Let me tell you, I'm going to get my calculator
- rather than guess at all these numbers.
- 6 Okay.
- 7 Approximately 30 miles an hour.
- Thirty miles an hour through the parking lot, 8 Q
- 9 okay. And --
- 10 But to clarify, I mean, we -- this is a
- conservative assumption. We don't expect they're going 30
- miles an hour through the parking lot, but they'll generate
- more noise at that level, and it's acting to conservatively 13
- 14 represent the study.
- 15 Do vehicles make more noise when they're driving at an even speed, or do they make more noise when they're
- 17 going from a stopped point to an accelerated --
 - A This model doesn't --
- 19 -- to accelerate?
- 20 My understanding, this model doesn't consider, in
- these analyses, acceleration going on. It would be a 21
- 22 running speed.
- 23 But just as a general principle, do they make more
- noise when they're at a constant speed, or do they make more
- 25 noise as they're accelerating?

- Q And HT trucks, one per hour? 1
- 2 We're showing, we're showing one of each here. It
- 3 didn't, it doesn't really specifically call it delivery
- 4 trucks in here. There's like one every four hours, but
- basically for the que, the 40 cars is really what drives the
- 6 queue, that that's what's in the queue specifically.
- Okay. So if I'm reading the que column, the que 8 row across, you're assuming 40 cars, one medium-duty truck,
- 9 one heavy-duty truck, one bus, and one motorcycle in any
- 10 average hour?

7

- 11 Well, yeah. Again, as I mentioned, I can answer
- 12 any questions you want on this particular model, but I'll
- 13 need to -- if you have very detailed questions, I'll have to
- 14 get back to you on it, but in terms if you want me to
- 15 speculate, there likely was maybe a minimum required. So
- one medium truck, one heavy-duty truck, one bus, as inputted
- 17 in here, would be additive for the queue to the 40 vehicles
- that we are assuming. So basically, on the que, the 40 18
- vehicles going at four kilometers an hour is what matters. 19 That's what, that's what would be happening here --
- Q Okay. 21

20

- 22 -- anything else included would be conservatism.
- 23 Q And you're assuming the ring road, 65, and parking
- 24 garage, 256, is that correct? I'm --
- A Correct. 25

18

- They could make more noise when accelerating. 1
- 2 Okay. And so, for example, going from stopped to
- 3 a moving could be louder?
- 4 A You said going from stopped to accelerating. I'm
- saying, yes, I assume, sure, it could be louder. 5
- 6 MR. GROSSMAN: What about from, from a speed to
- 7 decelerating -- is that lower or is that higher?
- THE WITNESS: Depends if they have good brakes or 8
- not, I suppose, but I don't think -- generally, if they, you
- didn't have squeaky brakes, it'd be, it'd be, wouldn't be 10
- more. 11
- 12 BY MS. ROSENFELD:
- 13 Okay. And under the parking garage, the 32
- 14 kilometers per hour, could you tell me how many miles that
- 15 is per hour?
- 16 A Approximately 20 --
- 17 Q Okay.
- -- the same response as before, that's a 18
- conservative representation. We don't think they're going
- 20 20 miles an hour really in a parking garage.
- 21 Q And on the same page there are a series of points,
- 22 Point 1 through 21, and when I went through that list,
- Points 15 and 16 are not included. Do you know why they
- 24 might have been omitted?
- 25 A I don't recall. I could certainly find out.

- derived from those actual noise readings in your traffic
- noise model analysis?
- 3 A No. We presented -- we did take the information
- as Parks and Planning staff asked us to do, the measured
- value from Sterling. They wanted us to show an idea on a
- figure what those values were, but in terms of the modeling
- at the Wheaton Mall, it was based upon background
- measurements taken in the neighborhood and modeling of the
- sources at the, at the mall itself.
- 10 And so you're talking about the noise readings
- 11 that you took in the Kensington neighborhood in September of
- 2011? 12
- 13 Α (No audible response.)
- 14 Q Are those readings modeled in this chart on page
- 359? 15
- A The background was added, was additive to the 16
- 17 results of the modeling.
- Where were those numbers added? 18
- 19 A It would have been done in a, in spreadsheet form,
- 20 is my recollection.
- 21 Was that spreadsheet included in your November
- 22 2012 report?
- A I believe so. I'd have -- I can't confirm that as 23
- 24 I sit here today.
- 25 Q Okay. If it was, I'd appreciate it if you would

Page 99

Page 98

- Q And you testified earlier --1
- 2 MR. GROSSMAN: While you're on the point, for some
- 3 reason Points 3 and 4 are out of order but they're there.
- 4 It goes --
- 5 THE WITNESS: That's correct.
- 6 MR. GROSSMAN: I guess it's because it's in the 7 queue. Is that --
- 8 THE WITNESS: Three and four are not, they're not
- 9 in numerical order, is your --
- 10 MR. GROSSMAN: Right.
- 11 THE WITNESS: -- is your point, that's correct.
- 12 MR. GROSSMAN: Right. But I notice that she's
- correct that it appears that 15 and 16 are just not there at 13
- 14 all.
- 15 BY MS. ROSENFELD:
- 16 Q You note in your report that you took noise
- 17 readings at Sterling in August of 2011, is that correct?
- 18 Α We --
- 19 Did you --
- 20 Wait. We took noise readings during the summer
- 21 and in the winter --
- 22 Q Okav.
- 23 -- is my recollection, and they're in our November
- 24 2012 report.
- 25 Q Okay. Did you use any of the noise data that you

- provide me with a copy. I didn't see it in either the
- report or the appendices.
- 3 A So just to clarify, you did not see the processing
- of the model output where we added in background?
- 5 Q I don't think I did. I might not have recognized
- it, but I don't recall having seen it. Aside from the
- actual noise readings taken from the Kensington
- neighborhood, did you use any other actual noise readings or
- actual noise data in the traffic noise model analysis?
- 10 A The noise data we used was background from Kensington Heights.
 - Just that, okay. When you model vehicular noise,
- is there a linear correlation between the number of vehicles
- 14 and the amount of noise?
- 15 A Well, the model certainly is evaluating the noise
- levels based upon its reference noise strength levels and
- the number of vehicles. I don't, I don't recall the 17
- relationship that it used in the model, but it's certainly
- contained in the documentation for the model. 19
- 20 So if, for example, you have 50 cars and they
- create a decibel level of 30 and you then have 100 cars, you
- don't know if the correlating, corollary noise level would
- 23 be 60 decibels? Do you have any sense for scale?
- A I'm saying the model is internally doing those
- 25 calculations. I don't recall the function it used, if it's

- 1 linear or non-linear, but that's automatically generated by
- 2 the model itself.
- 3 Q Would you provide me with that formula?
- 4 A So just to be clear, you would like to know the
- 5 function used in the traffic noise model that accounts for
- 6 the number of vehicles and how that, what the relationship
- 7 of that function is?
- 8 Q That's correct.
- 9 MR. GROSSMAN: Is that retrievable from the model?
- 10 THE WITNESS: Yeah, we can try to do it.
- 11 MR. GROSSMAN: Okay.
- 12 BY MS. ROSENFELD:
- 13 Q As a general concept, does it matter what mix of
- 14 vehicles you have? For example, if you have 50 automobiles,
- 15 do they generate the same noise as 25 automobiles and 25
- 16 trucks, large trucks, semi?
- 17 A They would not, no. I mean, presumably trucks
- 18 would generate more noise, or a bus, than a car would.
- 19 Q On page 8 of your November 2012 report, which I
- 20 just handed out, you state you take a five dBA, decibel,
- 21 credit because of a, quote, line-of-sight break.
- 22 A Which page are you referring to?
 - MR. GROSSMAN: Page 8, did you say?
- MS. ROSENFELD: Page 8. It's the handout of his
- 25 November, the excerpts.

- 1 Q Would a line-of-sight break also include a wall?
- 2 A There already is a line-of-sight break --
- 3 Q Yes.
- 4 A -- and of course, the wall would be, creates
- 5 another line-of-sight break. You could interpret it that
- 6 way, but it also has acoustic properties which are designed
- 7 to attenuate the noise and reduce them.
- 8 Q And would that line-of-sight-break analysis apply
- 9 to houses that have two or three stories that would be at
- 0 the same level as the noise source?
- 11 A Well, if you had a two-level home, it would have a
- 12 different line-of-sight geometry than the ground -- the
- L3 second floor would be different geometry than the
- 14 ground-level floor.
 - Q So would you expect that that five decibel credit
- 16 would apply at that location?
- 17 A I expect that it would with the acoustic wall in
- 18 place.

15

- 19 Q But without the wall it would not, that five point
- 20 credit would not apply, is that correct?
- 21 A Right now the wall is not in place --

qualities than a wall with breaks in it?

- 22 Q Yes.
- 23 A -- and any noise from the ring road would not,
- 24 potentially would not have a line-of-sight break for some
- 25 homes on the second floor.

Page 103

Page 105

- 1 BY MS. ROSENFELD:
- 2 Q Page 8 of your November 2012 report. The third
- 3 bullet on page 8 at the very bottom, you say: Similarly,
- 4 the noise modeling at Sterling was on a relatively flat
- 5 ground without a line-of-sight break that occurs at the
- 6 residential areas in Wheaton. The line-of-sight break
- 7 reduces noise impacts by five decibels per the county noise
- 8 guidelines, which is accounted for in the modeling but not9 in the directly measured noise data at the Costco gas
- 10 station. What does that mean? What is a line-of-sight
- 10 Station. What does that mean? What is a line-or-sign
- 11 break?

- 12 A If you have terrain -- if you have a hillside,
- 13 like you do in Kensington Heights, for the source, there's
- 14 not a direct -- you can't see, for example, visually from
- 15 the source of the noise to the receptor of the noise your
- 16 line-of-sight break. In accordance to the -- I'm referring
- 17 to the guidelines here of the County. They show a five
- 18 decibel credit. In terms of the model, you know, the model
- 19 -- we didn't use that in the modeling. The modeling, we
- 20 indicated the height of the acoustic wall and it would
- 21 compute the credits, and they were approximately three or
- 22 four, maybe five in some cases, reduction.
- 23 Q And so the line-of-sight break that you're talking
- 24 about here is a drop in terrain, is that --
- 25 A Correct.

- 1 Q Does a solid wall have different noise-dampening
- 3 A I would expect where the points of the breaks are
- 4 you'd have different properties in a solid wall. We didn't
- 5 model any breaks in the wall.
- 6 Q I'd like you to turn to page 105 of your report,
- 7 Figure 1-37, and there are 16 yellow dots identified as
- 8 Noise Receivers on that graph that we just talked about, and
- 9 you did say you took actual noise readings at those
- 10 locations, correct?
- 11 A Not at all of those locations, no. We took, we
- 12 took noise readings, background readings in selected spots
- 13 in the Kensington Heights neighborhood in relatively close
- 14 proximity to the proposed gas station.
- 15 Q Did you take noise readings at any of the 16 16 points?
- 17 A It's documented in the report that we produced,
- 18 and it shows the exact location of the points. Our position
- 19 is that those background values are representative of the20 neighborhood exposures.
- MR. GROSSMAN: Well, I'm not sure I understand.
- 22 She asked if you took measurements on the points, and you
- 23 said the background values are reflective of the
- 24 neighborhood. I'm not sure I understand that as an answer.
- THE WITNESS: We didn't take a reading at each one

- 1 of these 16 points for background --
- MR. GROSSMAN: But you did it at selected pointsor --
- THE WITNESS: We went to multiple locations in the neighborhood, which is specified in our report, and we
- 6 collected background noise measurements at those locations.
- 7 MR. GROSSMAN: But not at the ones that are marked 8 as Noise Receivers?
- 9 THE WITNESS: No. We took background measurements 10 at locations that in our judgment were representative of 11 background noise levels in the community.
- MR. GROSSMAN: What does the label Noise Receivers mean?
- THE WITNESS: It simply means that in the model you need to give it a location where you want it to compute what the noise level would be from the sources you're
- 17 specifically modeling.
- MR. GROSSMAN: The terms Noise Receivers are the modeling points for where you would assume the noise would be received?
- 21 THE WITNESS: Correct.
- MR. GROSSMAN: But not the points at which you
- 23 actually took measurements?
- 24 THE WITNESS: That's correct. They're --
- 25 MR. GROSSMAN: Okay.

- 1 A -- the TNM model to model the incremental sources
- 2 of noise beyond which would have been captured in the
- 3 background monitoring in Kensington Heights --
- 4 Q Okay.
- 5 A -- then the results from the noise model was
- 6 additive to the results in the background.
- 7 Q All right. So the noise values that you allocate
- 8 to the queue source came from your traffic noise modeling,
- 9 correct?
- 10 A That's correct. The contribution from the queue
- 11 sources, that blue triangle, onto these receptors, which are
- 12 called noise receivers, that was based upon the TNM model.
- Q And the noise values that you associated with the ring road came from your traffic noise model?
- 15 A Correct, and data that was available on the
- 16 incremental increase in vehicles.
- 17 Q Okay. And same thing for the parking lots,
- 18 correct?
- 19 A That's correct. Those are the sources that we 20 modeled with the TNM model.
- modeled with the TNM model.MR. GROSSMAN: So what are the sources for the
- 22 background noise that you did measure?
- THE WITNESS: It would be the, it would be the mall itself, ring road traffic, the 639 or so cars traveling
- 25 the ring road per hour; it would be the general traffic

Page 107

- THE WITNESS: -- two separate issues. Backgroundneeds to be added --
- 3 MR. GROSSMAN: Right.
- 4 THE WITNESS: -- to the specific noise from the
- 5 source that we modeled --
- 6 MR. GROSSMAN: Right.
- 7 THE WITNESS: -- but you would not need to have
- 8 background at every one of those locations.
- 9 MR. GROSSMAN: I understand. Okay.
- 10 BY MS. ROSENFELD:
- 11 Q And you have a blue rectangle listed here called
- 12 Queue Source. Is that the -- that's just the queuing area,
- 13 or is that the entire special exception area?
- 14 A It would be the queuing area.
- 15 Q And, again, just to be clear, the noise values
- 16 that you associated with the queue source are derived solely
- 17 from the federal modeling standards and not from any actual
- 18 noise meter readings from Sterling, correct?
- 19 A You said federal noise standards. You mean the --
- 20 Q Your TMA, the modeling that you did in your
- 21 traffic --
- 22 A Well, just to be clear, the --
- 23 Q -- I keep forgetting the name, the traffic --
- 24 A The TNM model. We used --
- 25 Q TMA.

- noise from Georgia Avenue and the other sources of noise in
- 2 the community, but it was measuring the status quo prior to
- 3 the construction of the Costco warehouse or the Costco, of
- 4 course, gas station.

5

10

- MR. GROSSMAN: All right. But what I don't
- 6 understand is the ring road is included in the model. So is
- 7 that not double-counting the ring road?
- 8 THE WITNESS: No. It's adding on, I mean, it's
- 9 adding -- it's adding, in this case, 65 additional cars --
 - MR. GROSSMAN: I see.
- 11 THE WITNESS: -- associated with the gas station
- 12 operations. It's being added on to the ring road because
- 13 the ring road traffic before that was captured through the
- 14 background noise monitoring.
- MR. GROSSMAN: I see. So the modeling is to capture the addition of the gas station, the queue, the ring
- 17 road, whatever it would add on to the background that you
- 18 actually measured?
- THE WITNESS: The gas station and the -- in this case, it was showing the parking lot going to, going to the
- 21 Costco gas station as well.
- MR. GROSSMAN: So I'm not sure I understand how it
- 23 all fits together with the Sterling, the measurements at
- 24 Sterling. I guess those, the measurements at Sterling
- generated the information by which you could put into the

Page 110 Page 112

- 1 model? Is that --
- 2 THE WITNESS: No. Sterling was just done for
- 3 perspective, to get an idea at an existing gas station with
- 4 a similar design --
- 5 MR. GROSSMAN: I see.
- 6 THE WITNESS: -- albeit one that sold more
- 7 gasoline, what kind of noise level were we seeing there. It
- 8 was done strictly for perspective purposes --
- 9 MR. GROSSMAN: Okay.
- 10 THE WITNESS: -- it didn't enter into the modeling
- 11 any more than it did perhaps for confirmation purposes.
- MR. GROSSMAN: Okay, thank you.
- 13 BY MS. ROSENFELD:
- 14 Q And so your traffic noise model really takes a
- 15 snapshot, doesn't it, of a particular point in time? It's
- 16 not an averaging over a period of time; it's these numbers,
- 17 this many vehicles at the location at a particular point in
- 18 time?
- MR. GROSSMAN: When you said these numbers, what
- 20 are you referring to?
- MS. ROSENFELD: I'm sorry, the numbers on page 359
- 22 of Appendix X.
- 23 MR. GROSSMAN: Okay.
- 24 THE WITNESS: It's modeling the noise levels for
- 25 what's shown, you know, 40 cars in the queue, in the parking

- 1 forth, that clearly is an overstatement.
- 2 Q And if I total the number of vehicles in Appendix
- 3 X at page 359 on the ring road, for example, it looks to me
- 4 like there's a total of 69 vehicles, is that correct?
- 5 A You're referring to page 359?
- 6 Q Yes.
- 7 A I'm seeing 65 vehicles. So --
- 8 Q Okay.
- 9 A -- you're referring to --
 - Q I think it says 65 autos, and then if you read
- 11 across, one --

10

13

20

- 12 A Oh, and the trucks.
 - Q -- truck, one MT truck, one HT truck, one bus, one
- 14 motorcycle, correct?
- 15 A That would be 69, correct.
- 16 Q Okay. And so if you increase the number of
- 17 vehicles in that assumption, the noise levels would increase
- 18 as well, correct?
- 19 A They would.
 - Q Are you an expert in traffic modeling or traffic
- 21 analysis?
- 22 A As I've mentioned, it came up earlier in the
- discussion, I have certainly conducted noise monitoring for
- 24 projects. I do not consider myself an expert in noise
- 25 modeling. I have done -- I've certainly overseen people

Page 111

Page 113

- 1 lots, and so forth. That's what it's modeling.
- BY MS. ROSENFELD:
- 3 Q Under this modeling application, the predicted
- 4 noise levels will remain constant during the 15-and-a-half
- 5 hours that the station is open, is that correct? It
- 6 doesn't --
- 7 A Well, it's based upon -- like, the parking lot
- 8 numbers you're seeing here are based upon peak-hour values.
- 9 So we're assuming these numbers are held constant. We're
- 10 not saying that they will be constant all the time because
- 11 it could be quite a bit less than this.
- MR. GROSSMAN: So this is a worst-case scenario,
- 13 in effect, a 40-queue --
- 14 THE WITNESS: Correct.
- MR. GROSSMAN: -- 40 queued in the --
- 16 THE WITNESS: That's the maximum queuing.
- 17 MR. GROSSMAN: Okay.
- 18 BY MS. ROSENFELD:
- 19 Q You've stated often that you used conservative
- 20 assumptions in your air quality modeling. Did you do the
- 21 same here?
- 22 A Well, that was certainly our objective. For
- 23 example, I mentioned the fact that the vehicles are going at
- 24 a faster speed in this noise model than they actually would
- be. The 48 kilometers an hour for the parking lot and so

- 1 doing it, but I'm not claiming that to be my specific area
- 2 of expertise.
- 3 Q And you drew your numbers from Mr. Guckert's
- 4 report? Is that, where did you get the -- where did you get
- 5 the number 69 vehicles?
- 6 A That was from Mr. Guckert's report.
 - Q On page 13 of Mr. Guckert's traffic analysis -- I
- 8 apologize. One second. Page 26 of Mr. Guckert's traffic
- 9 analysis, Hearing Examiner Exhibit No. 11(a), page 26,
- 10 Mr. Guckert projected that the morning weekday peak hour,
- 11 they were doing an estimated 323 vehicles driving east and
- 12 west on the ring road near the special exception entrance,
- 13 but you didn't base your noise model on 323 vehicles, did
- 14 you?

7

- 15 A Well, can I first see the document you're
- 16 referring to?
- 17 Q Oh, of course.
- 18 A Thank you.
- 19 MR. GROSSMAN: Thank you.
 - MS. ROSENFELD: Yes.
- MR. GOECKE: So this is for the total peak-hour
- 22 traffic volumes?
 - MS. ROSENFELD: That's correct.
- MR. GOECKE: Not the incremental?
- MS. ROSENFELD: Not the incremental.

20

Page 114 Page 116

- 1 BY MS. ROSENFELD:
- 2 Q If you --
- 3 A Well, we -- okay. I'm sorry. What was your
- 4 question?
- Q No, go ahead. 5
- 6 We, of course, didn't model the total, total
- traffic on the ring road. The ring road has on the order
- of, I think on the order of over 600 cars. The ring road
- does have traffic. We modeled the incremental contribution.
- 10 Q And yet the noise ordinance doesn't distinguish
- 11 between incremental and non-incremental. It simply says
- 12 that the noise levels --
- 13 But the background -- the background noise
- 14 measurements that we collected would have been monitoring
- 15 traffic from the ring road, the mall parking lots, traffic
- from Georgia Avenue, and the rest of the locations. We're 16
- 17 modeling incremental 69 more vehicles.
- 18 And so you are basing your background noise on the
- 19 noise meter readings that you took on September 6th of 2011
- 20 in the Kensington neighborhood?
- 21 A That's correct.
- 22 Okay. Going back again to page 359 of Appendix X,
- your noise assumptions presume along the ring road one
- medium truck and one heavy-duty truck. Are you aware that
- the ring road serves as a delivery route to multiple retail

- Those particular, but the 10 -- you're talking
- about one delivery approximately per hour. So it's not, for
- example, that it's going to have a heavy weighting on the
- value. You referred to heavy-duty. There's 10 per day out
- of a 15-hour operational workday.
- 6 Ten medium-duty and 10 heavy-duty?
- 7 Correct.
- 8 Per day? Ω
- 9 A That's, that's the data we're given by Costco,
- 10 that's correct.
- 11 Q The tractor-trailers that are making deliveries to
- the Costco warehouse have to go through a fairly intricate 12
- set of maneuvers in order to enter and leave the loading
- dock. So it's not simply a pass-by drive. Did you factor
- any additional noise resulting from that extended driving 15
- adjacent to the gas station? 16
- 17 MR. GOECKE: I object to the characterization of intricate maneuvers. I'm not sure what she means by that. 18
- 19 MR. GROSSMAN: Well, the question really is, is
- 20 there evidence in the record or that you can proffer will be
- 21 in the record that will show intricate maneuvering, as you
- 22 put it, and I --
- 23 MS. ROSENFELD: I can proffer that the applicant's
- truck turning radius, which, if it is not yet in the record,
- will be introduced through KHCA, shows that you don't simply

Page 115

- 1 stores immediately surrounding the special exception?
 - Well, we are, but the point, the point was we
- monitored -- we measured background levels that would have
- included normal operation of the ring road. That was done 4
- 5 before. So --
- 6 Q Was your modeling done before or after the
- warehouse was opened? 7
- 8 A Well, that's the one issue I guess you're getting
- at. Our modeling was done before the warehouse opened, and
- I can see that those particular vehicles would not be
- included in here. They are for the parking lots and the
- 12 parking garage. They are not, they are not for the ring
- 13 road.
- 14 Q Do you know the average number of trucks that
- 15 deliver goods to the Costco warehouse on a daily basis?
- 16 A It would be -- the average is 10 medium-duty
- 17 vehicles and 10 heavy-duty vehicles.
- And where do you get that number from? 18
- That number was provided by Costco. That's 19
- 20 included in our November 2012 report.
- Q And if there were actually more, more vehicles 21
- 22 than that, the noise values would increase, is that correct?
- 23 To some degree, they would. They would, sure.
- 24 Q And those tractor-trailer deliveries are not
- factored into your noise assumptions, correct?

- pull in and pull out. There are several.
- MR. GROSSMAN: So they'll have to, in other words,
- 3 the trucks will have to maneuver in and back and --
- MS. ROSENFELD: Correct. 4
- 5 MR. GROSSMAN: -- maneuver around?
- 6 MS. ROSENFELD: Right. They just don't pull in 7 and stop.
- 8 MR. GROSSMAN: So, okay, I think the general sense
- 9 of the question is permissible.
- 10 THE WITNESS: I'm sorry, just repeat the question.
- 11 BY MS. ROSENFELD:
- 12 Q Did you use any kind of increase noise factor
- because of the -- associated with the amount of time that it
- 14 takes for the Costco warehouse delivery trucks to park at
- the loading dock? 15
- 16 We did not.
- 17 Okay. Did you build in any assumptions associated
- with typical loading dock noises, such as opening and
- shutting warehouse doors? 19
- 20 A We did not, no.
- Or noise from dollies or pallets while products 21
- 22 are being off-loaded from trucks?
- 23 A Well, which operation are you referring to at the
- 24 mall? Are you referring just to Costco or in general?
- 25 Q I'm talking now specifically to Costco.

Page 118 Page 120

- 1 MR. GROSSMAN: Costco warehouse.
- 2 THE WITNESS: Costco warehouse.
- BY MS. ROSENFELD: 3
- 4 Q Costco warehouse.
- 5 A We did not.
- 6 MR. GROSSMAN: Ms. Rosenfeld, the noise standards
- 7 you referenced, they're average noise levels as opposed to
- 8 impact noise levels?
- 9 MS. ROSENFELD: I think that they're impact noise
- 10 levels, but in this --
- 11 MR. GROSSMAN: I'm talking about the regulations
- 12 that you've placed in the record as --
- 13 MS. ROSENFELD: The regulations would be -- for
- 14 example, a slamming door I don't think would necessarily
- create a violation, but if over a period of time, which 15
- could be as short as several minutes or longer, the noise 16
- 17 exceeds the 55 or the 65, then yes, that would, in my
- 18 view --
- 19 MR. GROSSMAN: Well, I think --
- 20 MS. ROSENFELD: -- be a violation.
- 21 MR. GROSSMAN: My recollection is there are two
- 22 different kinds of decibel ratings you can have: a decibel
- average rating and you can have this instantaneous decibel

MR. GROSSMAN: So I'm asking you if the

decibel ratings or to instantaneous decibel ratings.

impulsive noise, for instance, a short burst of an

regulations in your understanding are addressed to average

MS. CORDRY: Well, there is a definition of an

MS. CORDRY: -- which I think would be more

characteristic of a door slamming open and slamming shut,

MS, CORDRY: That exceeds those 65 and 55 decibel

MR. GROSSMAN: Cite me to the specific regulation

for instance, which is, a person must not cause or permit

levels. It exceeds the level at the location on a receiving

the emission of a prominent discrete tone or impulsive

MS. ROSENFELD: With respect to the vehicle noise,

MR. GROSSMAN: Okay. Well, with respect to any of

24 rating.

1

4

5

6

7

8 9

10

11

12

13 14

15

16

17

18

19 20

21

25 MS. ROSENFELD: Correct.

I believe it's an average.

acoustical energy --

these regulations that you've cited.

MR. GROSSMAN: Yes.

- 1 MR. GROSSMAN: Okay.
- 2 MS. CORDRY: There is 31B-5, which talks about
- the, B-5(a), which talks about the maximum allowable noise 3
- 4 levels --

5

18

1

- MR. GROSSMAN: Okay.
- 6 MS. CORDRY: -- which I'm trying to read through
- 7 at the moment. The point that I made about the impulsive
- noise is in the definitions. 31B-2 is the definition of an
- impulsive noise, and of course, there's also the definition,
- generally, of course, of a noise disturbance, which is just
- 11 a more subjective sort of concern.
- 12 THE WITNESS: It has to have a field crest factor
- 13 of 10 decibels, though, correct? I mean, it has, it has to
- go -- to be qualified as an impulsive noise, it has to go
- above the normal levels by a large amount, by 10 decibels. 15
- 16 MS. CORDRY: Having walked by the loading docks
- 17 when those doors are slamming shut, yes.
 - MR. GROSSMAN: No, no, no, you can't testify.
- 19 MS. CORDRY: I understand, but the question is,
- 20 could it be that, and you know, yes.
- 21 MR. GROSSMAN: No, just trying to analyze the
- 22 legal position.
- 23 MS. CORDRY: The point is we haven't measured that
- 24 possibility at all, is the question here.
- 25 MR. GROSSMAN: No, no, no. Let's --

Page 119

- MS. ROSENFELD: If --
- 2 MR. GROSSMAN: Hold on one second. I just want to

Page 121

- understand what the regulation is regulating. The dBA
- measurement, the A-weighting network of sound level, is that
- 5 what's regulated by the 65 and 55 terms? Maximum allowed,
- 6 that's the, that's the dBA rating --7
 - MS. CORDRY: Right.
- 8 MR. GROSSMAN: -- correct?
- 9 MS. ROSENFELD: Yes.
- 10 MS. CORDRY: 31B-5(a)(2) states: A person must
- not cause or permit the emission of a prominent discrete
- tone or impulsive noise that exceeds a level, at the
- location on a receiving property where noise from the source
- is greatest, that is five decibels lower than the level set
- in paragraph (1). So it appears that --15
- 16 MR. GROSSMAN: All right. Hold on a second. Let
- 17 me look at something. Let me look. Hold on. But now --
- MS. CORDRY: And if you, just one, if you proceed 18
- 19
 - MR. GROSSMAN: Yes.
- MS. CORDRY: -- (c)(4) is loading, unloading, 21
- opening, closing, or otherwise handling containers, building 22 23 materials, construction equipment, or similar objects.
- 24 MR. GROSSMAN: Right, but here's my concern: What we'll presumably be regulating here is the amount of noise
- down into the examples --
- 22 you're reading from. 23 MS. CORDRY: Okay. This is in --

noise, for instance, is part of the regulation.

MR. GROSSMAN: To exceed what?

property where noise from the source is greatest.

- 24 MS. ROSENFELD: County code.
- 25 MS. CORDRY: -- the county code.

Page 122 Page 124

- 1 -- I won't say regulating, is the wrong word -- analyzing
- 2 the amount of noise, incremental noise, that is, an overall
- 3 noise that's produced by the proposed Costco gas station.
- 4 We're not trying to regulate impulsive noise that might be
- produced by a truck unloading at the Costco warehouse. The
- only question that relates to that is whether or not that
- average of that noise over the time period involved plus the
- 8 Costco gas station exceeds the limit --
- 9 MS. CORDRY: Right.
- 10 MR. GROSSMAN: -- because I'm not here -- Costco
- warehouse is not before me as an issue I'm controlling. 11
- 12 MS. CORDRY: We understand.
- 13 MR. GROSSMAN: So I'm just trying to --
- MS. CORDRY: Right. 14
- 15 MR. GROSSMAN: -- properly put this in the right
- framework from what I'm trying to, what I'm supposed to 16
- 17 consider. So if I understand the way the regulations are
- written, there may be controls on impulsive noise but that
- 19 doesn't directly bear on us here. The only question we have
- 20
- with regard to extra noise produced by the warehouse is
- 21 whether, when you add that extra noise produced by the
- 22 warehouse on an average to the average noise that's going to
- be produced by the gas station, whether that will exceed the
- 24 55 and 65 decibel limits.
- 25 MS. CORDRY: Right.

- an hour would be minor, and as stated, the gas station
- really doesn't tend to have impact noises.
- 3 MR. GROSSMAN: Right, because I just don't want us
- to be confused about --

5

- MS. ROSENFELD: But my --
- 6 MR. GROSSMAN: -- impact, you know, how I factor
- 7 in impact noises because, apparently, that would be a,
- according to this witness, that would be a small element
- here. And you had indicated earlier that his figures -- and
- now I've been in suspense for too long -- you have to tell
- me where it is in his figures that shows that he's going to
- exceed, that this Costco gas station will exceed the
- 13 permitted noise levels.
- 14 MS. ROSENFELD: There is several more areas of
- 15 questioning, and --
- 16 MR. GROSSMAN: Okay.
- 17 MS. ROSENFELD: -- my, I think, once I'm finished,
- 18 you'll understand that --
- 19 MR. GROSSMAN: Okay.
- 20 MS. ROSENFELD: -- he has significantly
- 21 underrepresented the noise levels.
- 22 MR. GROSSMAN: Fair enough, I'll hold my suspense.
- 23 Let's talk for a second about what --
- 24 MS. ROSENFELD: To that -- go ahead.
- 25 MR. GROSSMAN: I don't know what's a convenient

Page 123

- break time for you. I realize I didn't give people the
 - normal morning break here. So how much -- what's a
 - convenient break time for you here?
 - MS. ROSENFELD: Hang on one second. Let me just 4
 - 5 pull my questions.
 - 6 MR. GROSSMAN: Because I guess I would just
 - 7 combine the two and have a lunch break. So --
 - MS. ROSENFELD: I would say maybe another half 8
 - 9 hour or so. I mean, I'm happy to keep going.
 - 10 MR. GROSSMAN: All right. Can we all hold out?
 - 11 (No audible response.)
 - 12 MR. GROSSMAN: All right. Keep going.
 - 13 MR. GOECKE: Is that just for noise or is that
 - 14 total?

17

25

- 15 MS. ROSENFELD: Just for noise, but it was an
- 16 optimistic question.
 - MR. GROSSMAN: All right.
- BY MS. ROSENFELD: 18
- 19 Q With respect to the noise associated with the
- loading dock, if the numbers that you've given, 10 large
- trucks and 10 medium trucks arriving per day, turns out to 21
- be significantly higher so that the loading dock noise is an 22
- 23 ongoing event --
- 24 A What do you mean by ongoing event?
 - Q Meaning that throughout the day, on a constant

- MS. ROSENFELD: That's --MR. GROSSMAN: Is that a fair characterization?
- 3 MS. ROSENFELD: That's correct. That's correct.
- 4 MR. GROSSMAN: Okay.
- 5 MS. ROSENFELD: And so I'm trying to determine how
- 6 much of this noise, these noise -- how many of these noise
- 7 sources that were, came into effect after the modeling done,
- 8 was done --

1

2

- 9 MR. GROSSMAN: Right.
- 10 MS. ROSENFELD: -- had in fact been --
- 11 MR. GROSSMAN: Right. Thus far --
- 12 MS. ROSENFELD: -- addressed.
- 13 MR. GROSSMAN: -- assuming that, you know, there
- 14 are those additional factors that weren't in that original
- model, so far, as I understand it, the expert has testified
- that that, because it's only a brief amount of time that
- 17 these, that is, 10 or so trucks, 10 or 15 trucks, whatever
- it is, over the day, approximately one, one and a half per 18
- hour, that would be a small increment, if I understood your 19
- testimony, Mr. Sullivan, on an average in terms of decibel 21 levels. Is that --

20

- 22 THE WITNESS: That's correct.
- 23 MR. GROSSMAN: Okav. That's --
- 24 MS. ROSENFELD: Now, if --
- 25 THE WITNESS: The impulse noise over the course of

- 1 basis, there is noise associated with the loading dock.
- 2 Shouldn't that noise be factored into your model?
- A I would say, ideally, yes, it'd be useful to
- 4 consider all background sources. I don't disagree with
- 5 that.
- 6 Q I proffer that the evidence in this case has shown
- 7 or will show that a meaningful percentage of the
- 8 tractor-trailers that deliver products to the warehouse have
- 9 a refrigeration unit that generates noise independent of the
- 10 truck's engine. Have you factored that noise into your
- 11 model?
- 12 A As I've mentioned in previous testimony, I did not
- 13 include the delivery trucks to the Costco warehouse.
- 14 Q After the warehouse was opened, Mr. Guckert
- 15 conducted a study of actual traffic along the ring road, and
- 16 I have excerpts from that report.
- 17 MR. GROSSMAN: Thank you.
- 18 BY MS. ROSENFELD:
- 19 Q In Mr. Guckert's May 10th supplemental traffic
- 20 analysis, which is Exhibit 128, I believe, in the zoning
- 21 hearing record, he conducted actual traffic counts at
- 22 various locations along the ring road. There's two in
- 23 particular that I'd like to bring to your attention. One
- 24 would be Location No. 5; the other would be Location No. 6,
- 25 both shown on page 2 of Mr. Guckert's report. If you go to

- 1 handout. It was, yes, I gave you his page 26 of Exhibit
- 2 11(a), and the totals are shown in the circular insert, and
- 3 if you give me a moment, I did add them up. According to my
- 4 calculations, the morning peak hour was 323 vehicles and the
- 5 evening peak hour was 442. That was before he took the
- 6 actual counts after the warehouse opened.
- 7 MR. GROSSMAN: So you're saying that the counts
- 8 have increased from those figures --
- 9 MS. ROSENFELD: To the figures that are
- 10 contained --
- MR. GROSSMAN: -- to 4, I can't read this, 410 and
- **12** 604?

15

- 13 MS. ROSENFELD: That's correct.
- 14 BY MS. ROSENFELD:
 - Q So if you were to rerun your model with these
- 16 numbers, I'm assuming your projected noise readings would be
- 17 higher than they are now, is that correct?
- 18 A Well, it depends. I mean, at this point, Costco
- 19 is open; the warehouse is operational. That could be easily
- 20 measured, what the background is. And do I expect it to be
- 21 significantly higher? I don't, but that's an easily
- 22 identified thing. You wouldn't have to model anything to
- 23 identify that.
- 24 Q You conducted actual noise readings at Sterling,
- 25 Virginia, did you not?

Page 127

- A Yes.
- Q And you took those readings at three different
- 3 locations, correct?
- 4 A At least three different locations, yes.
- 5 Q And you called them Locations 1, 2, and 3, is that
- 6 correct?

1

- 7 A Can you refer which page you're referring to,
- 8 please?
- 9 Q Yes. I'm looking at page 164 of your November 19,
- 10 2012, report.
- 11 A Okay
- MS. ROSENFELD: Mr. Grossman, do you have that?
- MR. GROSSMAN: Let's see. Oh, I don't have it
- 14 out, and so --
- MS. ROSENFELD: I do have a handout I can give
- 16 you. I can tell you --
- 17 MR. GROSSMAN: Okay.
- 18 MS. ROSENFELD: -- I've made some personal
- 19 notations on it, which I'll be happy to point out to you,
- 20 and this is some excerpts from Mr. --
- MR. GROSSMAN: Thank you.
 - MS. ROSENFELD: -- Sullivan's report.
- 23 BY MS. ROSENFELD:
- 24 Q All right. If we take a look at page 181 of this
- 25 document, there's a graphic, a map that shows where you take

- raye
- the next page, which is identified as page 20, that'sLocation 5 and that was taken on a Saturday, and if you look
- 3 at the bottom, it says: Peak hour, 11:15 to 12:15, with
- 4 total trips of 410 vehicles.
- 5 A I see that.
- 6 Q Did you update your report to reflect these higher
- 7 peak-hour numbers?
- 8 A Well, actually, the modeling that we did had more
- 9 cars than that in terms of the air quality modeling, had
- 10 more cars than 410. If your question is --
- 11 Q But I'm not asking --
- 12 A No, I have not updated --
- 13 Q I'm not asking about your air quality.
- 14 A I have not updated the noise report.
- 15 Q And if I refer you to Location 6, which is
- 16 reflected on page 24, again, on a Saturday, the peak hour at
- 17 that location, 604 vehicles along the ring road.
- 18 A Okay.
- 19 Q Okay. And these --
- MR. GROSSMAN: Ms. Rosenfeld, refresh my
- 21 recollection about the prior statistics that, that
- 22 Mr. Guckert had along the ring road prior to the opening of
- 23 the Costco warehouse. Do you recall what the equivalent
- 24 was?
- MS. ROSENFELD: I believe I just gave you that

22

- 1 these noise meter readings. Whoops, where's mine?
- 2 A You're referring now to Wheaton, Kensington
- 3 Heights, not --
- 4 Q I apologize. Hold on one second.
- 5 A You're correct, this is Wheaton. Okay. I'll
- 6 start with my Wheaton questions.
- 7 MS. ROSENFELD: Mr. Grossman, these are the pages
- 8 that relate to the noise readings that were taken at
- 9 Wheaton --
- 10 MR. GROSSMAN: Right.
- 11 MS. ROSENFELD: -- in Kensington.
- 12 BY MS. ROSENFELD:
- 13 Q And this is the data that formulated the basis for
- 14 your background noise level, is that correct?
- 15 A Which page are you on now? I'm sorry.
- 16 Q Just generally. Let me start again. Just
- 17 generally, the noise meter analysis that you took in
- 18 September of 2011, September 6th, 2011, this was the noise,
- 19 the actual noise reading that formed the basis for your
- 20 background assumptions, is that correct?
- 21 A You're referring to noise monitoring in Kensington
- 22 Heights, correct?
- 23 Q Yes, I am.
- 24 A Okay, yes.
- 25 Q Does your document say page 180? I'm thinking

- 1 MS. ROSENFELD: Do you have a document that starts
- 2 page 164?
- 3 MR. GROSSMAN: I do. Is that Wheaton or Sterling?
- 4 MS. ROSENFELD: Yes, that is Sterling. 164 are
- 5 the readings at Sterling.
- 6 MR. GROSSMAN: Okay.
- 7 BY MS. ROSENFELD:
- 8 Q Mr. Sullivan, is your starting page 164?
- 9 A Yes.
- 10 Q Okay. And these are the readings from Sterling,
- 11 am I correct? Yes. Okay. If you look at page 165, you
- 12 have three locations where you took actual readings, is that
- 13 correct?
- 14 A That's correct.
- 15 Q What are the noise sources associated with the
- 16 Sterling gas station?
- 17 A Well, I mean, there's several. One, of course,
- 18 would be the cars entering and exiting the gas station.
- 19 There also were, fairly close to Location No. 1 shown on
- 20 Figure 2-20, there was noise associated with people entering
- 21 their cars, putting away the carts from shopping, as well
- 22 as, you know, some noise measured from the warehouse itself.
- 23 Q And is it located anywhere near the loading docks
- 24 at Sterling?
- 25 A Yeah, I don't, I don't recall where the loading

Page 131

- 1 I've --
- 2 MR. GROSSMAN: Mine says page 164.
- 3 MS. ROSENFELD: Okay. I think I gave away all of
- 4 my copies.
- 5 MR. ADELMAN: 181.
- 6 MS. ADELMAN: 181.
- 7 MR. ADELMAN: 181.
- 8 BY MS. ROSENFELD:
- 9 Q Is the first page of the document that you have
- 10 page 180?
- 11 A 164.
- 12 Q Yes. Okay.
- MR. GROSSMAN: And mine is page 164 also.
- 14 MR. GOECKE: Mine too.
- 15 MS. ROSENFELD: All right. Hang on. I think I
- 16 gave away all of my copies. I apologize, Mr. Grossman.
- 17 MR. GROSSMAN: No problem.
- 18 MS. ROSENFELD: I'm good. I apologize --
- 19 MR. GROSSMAN: Okay, good.
- MS. ROSENFELD: -- I have too many papers here.
- MR. GROSSMAN: Yes, we all have that problem.
- 22 BY MS. ROSENFELD:
- 23 Q Okay. We're back to Sterling. All right.
- MR. GROSSMAN: Are you back to Sterling? I
- 25 thought we were at Wheaton.

- 1 dock is at Sterling. I don't remember.
- Q And where did you consider to be the primary noise 3 source?
- 4 A Well, you can see by how we placed our monitoring
- 5 locations. We were trying to emphasize the gas station
- 6 marketing area, the gas sales area, and we put monitors on
- 7 either side of it. Location No., No. 3 is shown to the
- 8 northwest, and Location Nos. 1 and 2, to the southeast.
- 9 Q In your report you indicated Sterling Location No.
- 0 1 was 78 meters from, I'm assuming -- would that be 78
- to I was 70 meters from, 1111 assuming -- would that be 7
- 11 meters from the center of the queuing area?
- 12 A From the edge of the gas marketing area, is my 13 recollection.
- 14 Q And where is the edge of the gas marketing area on
- 15 this diagram?
- A You can notice a white rectangle shown where the
- 17 gas sales takes place at Sterling. It would be
- 18 approximately from the edge of that area to the location of
- 19 Point No. 1.
- 20 Q If the top of the page were north, is it the area
- 21 at the very south of the canopy?
- 22 A That would be the closest area -- and all my
- 23 figures are, just to be clear, are oriented north; north is
- 24 up, to make that clear -- but it would be the closest point,
- 25 which would be in the southern, southeast corner perhaps of

Page 134 Page 136

- 1 the, the area.
- 2 Q Okay. And then the Location No. 2 is 30 meters.
- 3 I calculated that to be approximately 98 feet. Would you
- 4 agree?
- 5 A Sounds right.
- 6 Q And then Location No. 3 is behind the queues, is
- 7 that correct?
- 8 A It's to the northwest of the queues.
- 9 Q Northwest, okay. Do you know the distance from
- 10 the sales area at Wheaton to the property line, the
- 11 residential property line between the mall parcel and the
- 12 homes?
- A I have computed the number. It's -- off the top
- 14 of my head, I don't remember exactly. It's something less
- 15 than 300 feet.
- 16 Q Okay. Did you take any readings at Sterling that
- 17 would correlate to the closest residential line at Wheaton?
- A Really couldn't, couldn't do that, considering the
- 19 orientation there. We had, we had tree covered to the
- 20 south, as you can see, and it was not -- I really couldn't
- 21 get an unobstructed view. Going further to the southeast,
- 22 we did not. We had two downwind locations shown as Points
- 22 We did not. We had two downwind locations shown as Points
- 23 No. 1 and 2.
- 24 Q Is there a way for you to extrapolate the noise
- 25 readings from any of these three monitors to the nearest

- 1 Q Okay. And --
- 2 A It's not directly specified here. Well, actually,
- 3 Point No. 1, which is -- Point No., Point No. 2 at 98 feet
- 4 is specified.

5

- Q In looking at the graph that you show on page 166
- 6 under Location No. 1, is there a significant percentage of
- 7 noise that exceeds 65 dBA?
- 8 A Well, the average is certainly around 60 or less.
- 9 There are some, there are some spikes, which I indicated the
- 10 delivery truck -- I did indicate that on there -- that went
- 11 right past the noise meter, like were directly in front of
- 12 the noise meter.
- 13 Q Your times shown are on the 24-hour clock. My
- 14 understanding is that you took these readings from 1:19 to
- L5 2:50 on that afternoon, is that correct?
- 16 A It would be from --
- 17 Q At Location No. 1.
- .8 A -- 1:19 p.m. to approximately 3:20 p.m.
- 19 Q Okay. And then you moved the monitor over to
- 20 Location No. 2 at 3:20, is that correct?
- 21 A That's correct.
- 22 Q And what is the average decibel level?
- 23 A It's on the order of 68 decibels.
- 24 Q And so that is above 65 dBA, is that correct?
- 25 A Well, that is but that's very close to the gas

Page 135

Page 137

- 1 property line on the Wheaton Mall parcel?
- A Not directly because, as we discussed earlier, the
- 3 tree coverage is different between the two and there's a
- 4 break in the line of site in Wheaton that there's not in5 Sterling. So you -- once we went past the monitoring
- 6 locations on 1 and 2 and further southeast, you really, that
- 7 wasn't directly applicable.
- 8 Q Are the findings --
- 9 MS. ROSENFELD: I apologize, Mr. Grossman.
- 10 I've --
- MR. GROSSMAN: We all have the same paper problems. So we are --
- 13 MS. ROSENFELD: I have --
- MR. GROSSMAN: -- we're empathetic.
- 15 BY MS. ROSENFELD:
- 16 Q Are the results of your noise data analysis at
- 17 Sterling contained in Figure 2-21 on page 166 of your
- 18 report?
- 19 A This is showing a printout, I mean, is showing a
- 20 plot of the results we had, yes.
- 21 Q Correct. And can you describe what -- on the
- 22 left-hand side, where it says Location No. 1, what is the
- 23 average noise level at that location?
- 24 A You're referring to Point No. 1 for the further
- 25 away location?

- 1 station sources themselves and traffic within this Costco
- 2 parking lot. We're right in the Costco parking lot,
- 3 essentially.
- 4 Q But you don't know how that distance correlates to
- 5 the distance at the residential property line in Wheaton, do
- 6 you?
- 7 A Well, as I said, as I testified, you can't
- 8 directly extrapolate because the location in Wheaton has a
- 9 break in line of sight associated with terrain change and
- 10 different tree cover than you have here. All this data is
- 11 showing as an operational unit of Costco that does sell 30
- 12 percent more gasoline than Wheaton does, it's showing what
- 13 kind of levels is seen within the parking lot area itself
- 14 and that's really all. It gives you a point of reference,
- 15 but it's not --
- 16 Q Is there any limit, is there --
- 17 A -- applicable to residential areas.
- 18 Q Is there any limit on the volume of gas that could
- 19 potentially be sold at the Wheaton gas station?
 - A I can't answer that question.
- 21 Q Okay. You noted in your report on page 164 that
- 22 the noise readings at Location No. 2 had, quote, lower
- 23 variability and higher values. What does lower variability
- 24 mean?

20

A Ordinarily, if you look at the plot, it's obvious

Page 138 Page 140

- 1 that there's more wiggle at Location No. 1 than the
- 2 variability we're seeing at Location No. 2. We didn't
- 3 really explain, you know, the basis for it, but there
- 4 clearly was a greater variability at Location No. 1.
- 5 Q So said another way, it got louder?
- 6 A No, I'm not saying that at all. I'm saying
- 7 there's more variability at that location, No. 1. I do
- 8 know, because I was there, that that was quite close to
- 9 where the carts, the cart corals they have, and people put
- 10 their carts in there and the cart would go in, and you could
- 11 hear it; it was quite close to the monitor. There was also
- 12 activity at the portion of the warehouse that's in the
- 13 southern portion of the warehouse, fairly close to Location
- 14 No. 1, and we were in pretty close proximity to that
- 15 location. We heard some of that noise.
- 16 Q So lower variability means it's more of a
- 17 continuous noise; is that what that means?
- 18 A That would be correct.
- 19 Q Okay. And when you say higher values, that
- 20 translates to louder?
- 21 A It was louder at, well, close to Location No. 2
- 22 than it was at Location No. 1.
- 23 Q On page 164 of your report, you say the noise got
- 24 louder in part because the noise monitor was moved closer to
- 25 the source and because of steadier rush-hour volume later in

- 1 Q Okay.
- 2 MS. ROSENFELD: Mr. Grossman, I'll ask you to take
- 3 judicial notice of the fact that August 22nd was a Monday,
- 4 August 22nd, 2011, was a Monday.
- 5 MR. GROSSMAN: Well, I can't take judicial notice,
- 6 but I can take official notice --
- 7 MS. ROSENFELD: You can take official notice?
 - MR. GROSSMAN: -- if that's true. I haven't -- I
- 9 don't have a calendar in front of me, but I guess your
- 10 opponents will check that out if it's --
- 11 MS. ROSENFELD: I'm sure they will.
- 12 BY MS. ROSENFELD:
- Q And you also took readings on August 24th, 2011,
- 14 is that correct?

8

- 15 A I'm just taking some notes here. One second,
- 16 please. I'm sorry. I didn't hear you.
- 17 Q You also took readings on August 24th, 2011, is
- 18 that correct?
- 19 A August 24th? We did.
- MS. ROSENFELD: And that, I will ask that you take
- 21 official notice, was a Wednesday.
- 22 BY MS. ROSENFELD:
- 23 Q So the noise --
- MR. GROSSMAN: I'm sorry. And what day was that?
- MS. ROSENFELD: August 24th, 2011.

Page 139

2

7

12

- 1 the day.
- 2 A Right.
- 3 Q That means --
- 4 A Seems, that's --
- 5 Q -- more cars, so it's noisier; is that, is that a
- 6 fair statement?
- 7 A Well, it's certainly fair to say if there's more
- 8 cars, you'd expect it to be noisier.
- 9 Q What's the busiest day for gasoline sales at
- 10 Sterling?
- 11 A I don't, I don't recall seeing that, looking at
- 12 that particular number. I mean, I would, if I was going to
- 13 speculate, I would expect a Saturday.
- 14 Q And the second busiest day?
- 15 A I'm not going to speculate on that.
- 16 Q Okay. But do you have any idea what the two
- 17 busiest days for gasoline sales are projected to be at
- 18 Wheaton?
- 19 A I rather not speculate. That's --
- 20 Q Okay.
- 21 A -- something else somebody else can testify to.
- 22 Q Would it surprise you if I told you that testimony
- earlier said that sales were highest on a Saturday to
- 24 Sunday?
- 25 A That wouldn't surprise me.

- 1 MR. GROSSMAN: August 24th? Okay.
 - BY MS. ROSENFELD:
- 3 Q So the noise readings that you took at Sterling
- 4 really don't necessarily reflect the volume of traffic in
- 5 the queues that would be projected at the Wheaton station on
- 6 an average Saturday or Sunday, does it?
 - MR. GOECKE: Objection. He already testified he
- 8 doesn't know what the average queues are going to be on a
- 9 given day.
- MR. GROSSMAN: But I think he can answer, that
- 11 would not necessarily reflect. Then he can answer.
 - THE WITNESS: Well --
- MR. GROSSMAN: He can qualify it if he wants to.
- 14 I'll overrule the objection.
- MS. ROSENFELD: I'll ask a different question.
- 16 BY MS. ROSENFELD:
- 17 Q Did you --
- 18 MR. GROSSMAN: Well, let him --
- 19 MS. ROSENFELD: Oh, sorry.
- MR. GROSSMAN: I overruled the objection. So let him answer.
- THE WITNESS: We did look at the gasoline sales on
- 23 each day we were at Sterling, and my recollection is they
- 24 were typical. They were representative of typical gas
- 25 sales.

Page 142 Page 144

- 1 BY MS. ROSENFELD:
- 2 Q For a Monday?
- 3 A I'm saying typical, not for any particular day of
- 4 the week. They were typical sales. They were not, they
- 5 were not upper bound. They were not low. They were
- 6 typical.
- 7 Q Do you have that data in your report?
- 8 A I'd have to check. We certainly have the data in
- 9 our files.
- 10 Q Would you provide that to me, please?
- 11 A Sure.
- 12 Q Did you count the number of vehicles that entered
- 13 and left the Sterling station --
- 14 A We did not.
- 15 Q -- on either Monday or Wednesday?
- 16 A We did not because we had gas sales data.
- MR. GROSSMAN: But I'm not sure I understand,
- 18 Ms. Rosenfeld. What's -- he testified earlier that this is
- 19 just for some comparison purpose but his projections are
- 20 based, for Wheaton, are based on background, actual noise
- 21 measurements made at Wheaton combined with the modeling at
- 22 Wheaton. So why should we give exercise, one way or
- 23 another, about what happened at Sterling?
- MS. ROSENFELD: Because to the extent that he has
- 25 provided this data as corroborating --

- 1 don't know that anybody -- do you disagree with that,
- 2 Mr. Goecke?
- 3 MR. GOECKE: No. I think this would be a good
- 4 opportunity to stop talking about Sterling, actually.
- 5 MR. GROSSMAN: Well, that wasn't exactly what I
- 6 asked you, but do you agree with what I have suggested?
- 7 MR. GOECKE: I agree with what you said, yes.
- 8 MR. GROSSMAN: Okay. All right.
- 9 MS. ROSENFELD: And I have one final set of
- 10 questions, and they do go to the Kensington readings. I
- 11 have another handout that starts on page 180.
- 12 MR. GROSSMAN: Okay.
 - MS. ROSENFELD: And I think I might have handed
- 14 this out to some people already. Yes or no?
 - THE WITNESS: Thank you.
- 16 MR. GROSSMAN: Thanks.
- 17 BY MS. ROSENFELD:
- 18 Q Mr. Sullivan, when you conduct noise readings, did
- 19 you conduct these under the standards that are imposed by
- 20 the noise model?

13

15

23

2

- 21 A The noise model doesn't impose standards.
- 22 Q What protocol did you use?
 - A The noise model doesn't include standards. We
- 24 used A-weighting non-impact noise monitoring, is what we,
- 25 what we did.

Page 143

Page 145

- 1 MR. GROSSMAN: I don't know that he's -- he hasn't
- 2 said that it's corroborating. He said it's just for
- 3 comparison purposes. I'm not sure what the -- I'm not sure
- 4 what I can conclude from Sterling. He said that it's
- 5 different where they measured it: in the parking lot rather
- 6 than in the residential areas. I'm not sure what I can
- 7 really conclude from the data from Sterling in this case. I
- 8 think there's other things that, from Sterling, that may
- 9 have some impact. I don't know about the noise.
- MS. ROSENFELD: Well, I agree with you. I think
- 11 that the data that's in here really is not germane. It was
- 12 not included in his modeling. To the extent that it's in
- 13 here to suggest that the noise levels at Wheaton would be in
- 14 compliance with state and county law, I think it's
- 15 inappropriate and, frankly, not probative of that issue.
- 16 So --
- MR. GROSSMAN: I wouldn't call it inappropriate.
- 18 I'm just not sure it's probative. I --
- MS. ROSENFELD: Not probative of that issue.
- MR. GROSSMAN: -- so I don't know what I can
- 21 conclude from it. I think I would be more inclined to rely
- 22 on the background measurements that he took at, in Wheaton,
- 23 plus the modeling from Wheaton, would seem to me to be,
- 24 given the different geographical setup and all those other
- 25 things, would seem to me to be a more reliable source. I

- 1 Q Okay. What effect does wind have on noise
- 3 A Well, a strong wind can certainly increase the
- 4 noise levels.

readings?

- 5 Q Increase?
- 6 A It can.
- 7 Q Okay. And what effect does precipitation have on
- 8 noise readings?
- 9 A Well, of course, rain does make noise, and we were
- 10 trying to work around, as you can see here, on these days
- 11 because there was some intermittent rain.
- 12 Q And you took these noise readings on September 6th
- 13 of 2011, is that correct?
- 14 A Correct.
- 15 Q And what day of the week was that?
- 16 A I don't remember.
- 17 Q I'll proffer that it was a Tuesday. I will also
- 18 proffer that it was on the day after Labor Day. And are you
- 19 aware of the fact that in doing transportation analysis, at
- 20 least, the transportation guidelines do not allow traffic
- 21 readings the day after a federal holiday, the presumption, I
- 22 think, being that traffic volumes are unreliable on that
- 23 day?
- 24 A Well, those requirements don't apply, of course,
- 25 in this case. I do not know if the traffic counts are

Page 146 Page 148

- 1 unreliable the day after Labor Day.
- 2 Q Okay.
- 3 MS. ROSENFELD: Mr. Grossman, I would like to
- 4 submit into the record a copy of page 21 of the Local Area
- 5 Transportation Review and Policy Area Mobility Review
- 6 guidelines.
- 7 MR. GROSSMAN: Okay. Thank you.
- 8 MS. ROSENFELD: And I do recognize that this is
- 9 not a traffic study per se, but given the fact that this
- 10 noise model is --
- MR. GROSSMAN: All right. We'll make this Exhibit
- 12 197.
- MS. ROSENFELD: -- intended, at least in part, to
- 14 measure background vehicular noise, I know that traffic
- 15 counts should not be taken on federal and/or state and/or
- 16 county holidays, on the day before or after federal
- 17 holidays.
- MR. GROSSMAN: All right. So LATR and PAMR
- 19 guidelines, page 21, Exhibit 197.
- 20 (Exhibit No. 197 was marked
- 21 for identification.)
- THE WITNESS: Where's that quote, Ms. Rosenfeld?
- 23 BY MS. ROSENFELD:
- 24 Q Excuse me?
- A Where's the quote on page 21?

- 1 A That's correct.
- 2 Q And if I go to page 182, there is a chart that
- 3 shows the results of your readings, is that correct?
- 4 A That is correct.
- 5 Q Now, on page 180, the second full paragraph under
- 6 2.3.4, you say: Figures 2-31 and 2-32 show the three
- 7 locations where the noise meter was recorded from 3:46 to
- 8 5:58 p.m. on September 16, 2011. Did you record noise for
- 9 that full duration of time?
- 10 A We did not.
- 11 Q And if you go to page 182, does it show the
- 12 duration of time that was actually recorded?
- 13 A You're referring to -- I see text boxes that show
- 14 that. Are you referring to the information you've added?
- 15 Q Within the black confines of the text box, there
- 16 are times noted, again, on a 24-hour clock --
- 17 A Right.
- 18 Q -- is that correct?
- 19 A Well, we are showing, we are showing that, yes.
- 20 We're showing from 15:46 through 17:11, we're showing
- 21 readings during that period of time.
- Q Is that really through 17:11, or is it 15:46
- 23 through 16:02?
- A I'd have to see the raw data to double-check that,
- 25 but of course, the labeling here does say 3:46 p.m., which

Page 147

Page 149

- 1 Q It is the, under No. 3 --
- 2 A Okay, thank you.
- 3 Q -- it's in the second full paragraph of No. 3.
- 4 A Okay.
- 5 Q And in your --
- 6 MR. GOECKE: And this is for, I'm sorry, this is
- 7 for traffic counts or for noise studies?
- 8 MS. ROSENFELD: For traffic counts.
- 9 BY MS. ROSENFELD:
- 10 Q Mr. Sullivan, you did rely on Mr. Guckert's
- 11 traffic counts, did you not, in developing some of your
- 12 noise analysis, is that correct?
- 13 A That's correct.
- 14 Q Okay. If I look at page 180, it appears that you
- 15 conducted noise readings at three separate locations, is
- 16 that correct?
- 17 A You're referring now -- you're still referring to
- 18 Wheaton?
- 19 Q I'm now referring to Kensington, that's correct --
- 20 A Kensington, sorry.
- 21 Q -- the Kensington background noise study.
- 22 A That's correct.
- 23 Q And if I go to page 181, there's three monitors, I
- 24 believe -- No. 1, No. 2, and No. 3 -- is that correct? Are
- 25 those the locations where you took your noise readings?

- 1 would be 15:46, through 17:11 p.m.
- 2 Q And does that 17:11 start under Location 2, or is
- 3 that a continuation of Location 1?
- A Oh, I see. I'm sorry. Thank you for the
- 5 clarification. No, Location No. 1 would be 3:46 through6 4:02.
- 7 MS. ROSENFELD: And for the record, Mr. Grossman,
- 8 the times listed in the red text boxes on the bottom of page
- 9 182, I did add that --

10

- MR. GROSSMAN: Okay.
- MS. ROSENFELD: -- because I have a hard time
- 12 reading the 24-hour clock.
- 13 BY MS. ROSENFELD:
- 14 Q And so at Location No. 1 what was the total amount
- 15 of time that you recorded noise?
- 16 A Well, 17 minutes, and the reason, I described
- 17 earlier, is we were working around rain events and did not
- 18 want to bias it with rain events, and so I did limit our
- 19 opportunities that particular day.
- 20 Q And at Location No. 2 how long did you take noise 21 readings?
- 22 A Ten minutes.
- 23 Q And at Location No. 3?
- MR. GOECKE: I'm sorry to interrupt, but can you
- 25 give us a copy of what you're talking about?

Page 150 Page 152

- 1 MS. ROSENFELD: Oh, I'm sorry. I thought I --
- MR. GOECKE: It's all right.
- 3 MS. ROSENFELD: -- had given you one.
- 4 MR. GOECKE: Thank you.
- 5 BY MS. ROSENFELD:
- 6 Q And at Location No. 3?
- 7 A Ten minutes.
- 8 Q Okay. And so what was the total amount of time on
- 9 Tuesday, September 6th, that you recorded noise readings in
- 10 the Kensington neighborhood?
- 11 A Would be 37 minutes.
- 12 Q And based on that 37-minute reading, you then
- 13 extrapolated the total background noise within the
- 14 Kensington neighborhood, is that correct?
- 15 A Well, we, by looking at the data, with the three
- 16 different data points, we concluded that it was, they were
- 17 representative of typical conditions. Yes, I agree, it'd be
- 18 ideally great to have more data than that, but the day we
- 19 were there we did have limited opportunity because of
- 20 precipitation events which were intermittent.
- 21 Q And that was the only day, September 6th of 2011,
- 22 you could conduct a noise study in the neighborhood?
- A No. I mean, this is the date that we did conduct
- 24 the noise study, and as I mentioned, there were breaks due
- 25 to precipitation events.

- 1 MR. GROSSMAN: Sure.
- 2 BY MS. ROSENFELD:
- 3 Q Do you recall if you used 13.9 as the number of
- 4 gallons sold at the Sterling gas station?
 - MR. GROSSMAN: Thirteen point nine million?
- 6 MS. ROSENFELD: Million gallons.
- 7 THE WITNESS: I believe that's correct. I don't
- 8 know for sure.
- 9 BY MS. ROSENFELD:
 - Q And 12 million gallons for Wheaton?
- 11 A That's correct.
- 12 Q What is the percentage differential between 12 and
- 13 13.9?

5

10

15

- 14 A I could calculate it.
 - Q Would you, please?
- MR. GROSSMAN: Thirteen percent, I'm guessing.
- 17 THE WITNESS: Sixteen percent.
- 18 BY MS. ROSENFELD:
- 19 Q Not 30?
- A Sixteen percent is not 30.
- 21 Q Okay. So your assumption that there's 30 percent
- 22 more gas that would be pumped at --
- 23 A Well, that was stated --
- 24 Q -- Sterling is an overstatement, is that correct?
- 25 A Well, that was not -- that is an overstatement,

Page 151

Page 153

- 1 Q And in your -- I'm going back just for a moment to
- 2 your modeling, your traffic noise model -- you did not
- 3 include any idling of trucks on the ring road in that
- 4 analysis, did you?
- 5 MR. GROSSMAN: When you say idling of trucks on
- 6 the ring road, you mean the trucks from the Costco
- 7 warehouse?
- 8 MS. ROSENFELD: From the warehouse or any other,
- 9 any other idling trucks.
- 10 MS. CORDRY: Any trucks.
- 11 THE WITNESS: That are parked, idling on --
- MS. ROSENFELD: I proffer that we'll have
- 13 testimony on this point. I just want to clarify whether or
- 14 not it was included in his modeling.
- THE WITNESS: I did not assume that any trucks
- 16 were idling on the ring road.
- 17 BY MS. ROSENFELD:
- 18 Q Did you assume any trucks would be idling in the 19 parking lot?
- 20 A No. As I showed -- we went through the data
- 21 earlier -- I showed that the vehicles that we assumed in the
- 22 parking lots, as well as the ring road, we did not assume
- 23 idling trucks.
- MS. ROSENFELD: I think I have one more, if you'll
- 25 indulge me.

- 1 but it was not, was not used in calculations. It was
- 2 showing the preliminary parts of the report based upon
- 3 information I had received, but it was not used in
- 4 calculations at all.
- 5 MS. ROSENFELD: Thank you, Mr. Grossman. I have
- 6 no further questions.
 - MR. GROSSMAN: All right. So I take it from
- 8 hearing your cross-examination that your, your point is, as
- 9 far as noise, that the noise measurements made of background
- 10 are not fully indicative of the actual situation now since
- 11 they didn't measure the situation following the
- 12 establishment of the Costco warehouse operation in the
- neighborhood or the impacts of that on the neighborhood and
- 14 that the measuring period done was selected on a day when
- 15 traffic would logically be lower the day after a holiday and
- 16 that the number of data points was too low to be reliable;
- 17 is that a fair summary of your, your point?
- MS. ROSENFELD: That's a fair summary. I think
- 19 that the background data in the Kensington neighborhood is
- 20 just not statistically sustainable. It's too short a period
- 20 Just not statistically sustainable. It's too short a period
- 21 of time, too few dates, too few points, and a date that22 can't be reliably assumed to be representative of peak-hour
- 23 traffic and that the numbers contained in the traffic noise
- 24 model itself for the background on the mall is
- 25 underrepresented, both in terms of pure numbers, both

Page 154 Page 156

- 1 frankly before as well as after the warehouse was built, and
- 2 that the numbers simply do not reflect an accurate
- 3 simulation of noise levels.
- 4 MR. GROSSMAN: Okay. I understand. Okay.
- 5 MS. ROSENFELD: One -- and most significantly, we
- 6 have absolutely no data that shows what the noise levels are
- 7 at the property line. Oh, no further question just on
- 8 noise.
- 9 MR. GROSSMAN: You said no data showing what the
- 10 levels are at the property line. The noise measurement
- 11 locations in the neighborhood at Wheaton were made --
- MS. CORDRY: On page 181.
- MR. GROSSMAN: I'm looking at it now. So they
- 14 were -- well, I guess your point there is that they're
- 15 beyond the property line; they're not at the property line,
- 16 right.
- MS. ROSENFELD: Which page are you looking at,
- 18 Mr. Grossman?
- MR. GROSSMAN: I was looking at page 181, Figure
- 20 2-31.
- MS. ROSENFELD: The noise at page 181 is simply
- 22 the background noise.
- MS. CORDRY: Right, but that's the point, it
- 24 was --
- MR. GROSSMAN: Right. I think that was the point

- 1 ordinarily the hearing day would be the hearing day. Here
- 2 there's an opportunity, in fairness, for people to come back
- 3 and still cross-examine at a later date since this case is
- 4 going to go on apparently into October. So I'd say it'd be
- 5 less of a reason to cut them off if they were to do
- 6 additional measurements now because there would be an
- 7 opportunity for you to rebut it and to cross-examine on it.
- 8 So --

10

13

- 9 MR. SILVERMAN: Well, there is a resource issue --
 - MS. CORDRY: Yes.
- MR. SILVERMAN: -- which we feel more keenly than
- 12 the other side, but --
 - MR. GROSSMAN: I understand.
- MS. CORDRY: Yes. Is there a point at which --
- MR. GROSSMAN: There's a point at which --
- MS. CORDRY: -- we have to prepare over and over
- 17 and over again for each witness, and Your Honor, this, it is
- 18 getting beyond the point of difficulty, into almost sheer
- 19 impossibleness to be able to -- I mean, we're already going
- 20 to need to obviously come back when he revises his report
- 21 yet again, to fix all the issues that --
- MR. GROSSMAN: We don't know what, if anything, is
- 23 going to be done. That's --
- MS. CORDRY: Well, there's all the corrections to
- 25 that sheet.

1

Page 155

Page 157

- 1 that --
- MS. ROSENFELD: Right.
- 3 MR. GROSSMAN: -- Ms. Cordry was making --
- 4 MS. ROSENFELD: Yes.
- 5 MR. GROSSMAN: -- that the measurements were not
- 6 made at the property line, which I think may be actually
- 7 included as the location for measurements in the, in the
- 8 noise --
- 9 MS. ROSENFELD: I don't think you have any, any
- 10 data that shows what the background noise is at the property
- 11 line, either background or modeled, either one.
- MR. GROSSMAN: Hold on one second, folks, if you
- 13 would. All right. So I guess it's a good time to break for
- 14 lunch, and --
- MR. SILVERMAN: Can I raise one thing?
- MR. GROSSMAN: Pardon me, sir?
- 17 MR. SILVERMAN: One question --
- 18 MR. GROSSMAN: Yes, sir.
- MR. SILVERMAN: -- for procedural. In general,
- 20 how many bites at the apple does a party get? I mean, if
- 21 for some reason they decide, well, maybe we weren't strong
- 22 on this point, can they just keep coming back and bolstering
- 23 what they do? Is there an end to it?
- MR. GROSSMAN: Well, this case is somewhat unusual
- 25 in that it goes on for an extended period of time, and so

- MR. GROSSMAN: Okay, yes. No, that, that's
- 2 something else, but many of the changes that have been a
- 3 concern to you have been changes that have been brought
- 4 about as a result of an -- to improve the potential
- 5 situation. So I'm not going to --
- 6 MS. CORDRY: But --
- 7 MR. GROSSMAN: -- I'm not going to take that as a,
- 8 as a valid complaint --
- 9 MS. CORDRY: Well, an applicant --
- 10 MR. GROSSMAN: -- changes to make, but this is a 11 different kind of change.
- MS. CORDRY: But we would point out, these issues
- were raised with Park and Planning staff and presumably
- 14 raised with the applicant back in January. The fact that we
- 15 are now in the middle of July and having to correct their
- 16 application for flaws that should be apparent on their face
- 17 from day one is, it's really a question of -- it's not a18 question of our improving these things. It's a question
- 19 of --
- MR. GROSSMAN: No. I'm talking about -- when I say improving, I was thinking about the pedestrian path issues.
- MS. CORDRY: Well, we haven't yet, we haven't

improved. We're still not back to where we were in January.

5 The path that's being proposed is still not what was

Page 158 Page 160

- 1 proposed in January. So we aren't improving. We're still
- mitigating to the extent to which we have lost ground since
- 3 January.
- 4 MR. GROSSMAN: All right.
- MR. SILVERMAN: Just on the resource issue, I 5
- mean, keep in mind, it's been years. We have really not
- 7 been very secretive about our objections.
- MR. GROSSMAN: No, you haven't been quiet about 8
- 9 your objections.
- 10 MR. SILVERMAN: No, and we haven't been quiet
- 11 before this began. So --
- 12 MR. GROSSMAN: Right.
- 13 MR. SILVERMAN: -- I mean, at some point -- it's
- 14 very difficult for a group of citizens to, you know, muster
- the resources to get the quality of cross-examination as you 15
- just heard. It's really hard in resource terms. At what 16
- 17 point do you just say, cut, you've had your shot, now I'll
- just decide the case on the basis of burden of proof and the
- 19 law?
- 20 MR. GROSSMAN: Well, I understand your point, and
- 21 I'm not going to say yet, until I hear that there have been
- 22 some changes proffered, whether or not I would say no, you
- can't change it anymore; so -- but I hear you. I understand
- 24 the difficulty. Any response to all of that, Mr. Goecke?
- 25 MR. GOECKE: Not at this time, no.

- 1 MS. HARRIS: That's different than my
- understanding based on my direct conversation with
- Ms. Rosenfeld who indicated that this afternoon either
- Ms. Cordry could continue with cross-examination and/or we
- could put on a new witness, and she didn't feel like it was
- necessary for her to be there. We can't do the latter, but
- we had agreed -- and I told Michele this -- for Ms. Cordry
- to conduct the, continue the cross-examination of 8
- Mr. Sullivan.
- 10 MR. SHEVEIKO: Well, this is not --
- MS. ADELMAN: Well --11
- 12 MR. GROSSMAN: Mr. Sheveiko.
- 13 MS. ADELMAN: -- this is not what we understood --
- MR. GROSSMAN: Ms. Adelman. 14
 - MS. ADELMAN: -- and in deference to Ms. Harris,
- we did not know that Michele had spoken to Ms. Harris, but
- 17 the opposition parties feel that it would be prejudicial to
- our counsel if she were not here to conduct the remains of
- 19 the cross and --

15

20

- MR. CHASE: Can't Mr. Silverman or Karen step in?
- 21 MS. CORDRY: Well, let me clarify.
- MR. GROSSMAN: Well, hold on one second. 22
- 23 Dr. Chase --
- 24 MR. CHASE: I'm sorry.
- 25 MS. CORDRY: Let me clarify. Michele came to me

Page 159

Page 161

- MR. GROSSMAN: Okay. All right. So let's break for lunch here. What time shall we come back? Let's say --3 it's 1 o'clock. 1:45?
- MS. ADELMAN: Sure, that's fine. 4
- 5 MR. GROSSMAN: All right. Adjourned until 1:45.
- 6 (Whereupon, at 1:00 p.m., a luncheon recess was 7 taken.)
- 8 MR. GROSSMAN: All right. We're back on the
- 9 record. Let me mention that Ms. Rosenfeld stopped by my
- office, said she was not feeling well, and so I asked her to
- check with Applicant's counsel and see if we could work
- 12 something out so we could proceed in her absence; if not,
- 13 you know, we would have to adjourn. So what, what has
- 14 transpired?
- 15 MR. SHEVEIKO: Well, we talked it over --
- 16 MS. CORDRY: Yes. State who you are on the 17 record.
- MR. SHEVEIKO: Yeah, Danila Sheveiko, president, 18
- Kensington Heights Civic Association. We talked it over, 19
- 20 and with Michele out of commission for the rest of the day,
- 21 we think it would be best to adjourn, and if she is not
- 22 feeling better by Thursday, we will have Karen Cordry
- continue the cross-examination, and we feel like adjournment
- 24 is the best way to proceed right now.
- 25 MR. GROSSMAN: All right. Ms. Harris.

- and indicated she was feeling very badly and needed to leave 2 and go to the hospital.
- 3 MR. GROSSMAN: Right.
- MS. CORDRY: We were trying to figure out if there
- was something there. I said I could try and step in. After
- that I talked some more to everyone here, and the Coalition
- 7 and, I believe, Ms. Duckett --
- 8 MS. DUCKETT: Eleanor Duckett.
- 9 MS. CORDRY: -- would also state that on their
- discussion -- this had no reflection on you -- but we really
- feel (a) our counsel is prejudiced by not being here during the cross-examination, (b) we feel prejudiced, (c) we don't
- think there's anybody here who can assist you in the way
- that you assist Michele. They do not feel that it would be 15 appropriate to go forward at this point.
- 16 We have discussed, I will step in and, you know,
- 17 take over on Thursday if need be, if she is not able to
- resume, so we were not taking any more time than that. But
- this is obviously the heart of our case, and we're getting
- to the heart of the questioning here, and I think, although
- I've certainly talked with Michele and we've worked on these 21
- 22 things, I was not prepared to do, you know, first chair here
- or to do this level of questioning and so forth --24 MR. GROSSMAN: Right.
- 25 MS. CORDRY: -- and again, I would say, if we were

23

Page 162 Page 164

- 1 going to wrap up, it would be one thing, but we're clearly
- 2 not at that position at this point.
- 3 MS. HARRIS: Mr. Grossman, may --
- 4 MR. GROSSMAN: Ms. Harris.
- 5 MS. HARRIS: -- may I suggest one thing and then
- 6 make a comment?
- 7 MR. GROSSMAN: Sure.
- 8 MS. HARRIS: Mr. Silverman earlier had indicated
- 9 that he had further questions of Mr. Sullivan. So in, so
- 10 perhaps we -- and I understand what you're saying --
- 11 MS. CORDRY: Right, yes.
- MS. HARRIS: -- and I think we accept that, but
- 13 certainly I think we could go forward with Mr. Silverman's
- 14 cross and then maybe stop for the day. I would also note,
- 15 though, that this delay has repercussions just in terms of
- 16 what Mr., Dr. Chase was telling me. As things get pushed
- 17 back, he's not available at the end of the month, but we'll
- 18 deal with things, you know, day by day, as we have been.
- MR. GROSSMAN: Right. I mean, I don't think that
- 20 we can proceed against the wishes of the Kensington Heights
- 21 Civic Association. It's not really the -- it's not really
- 22 the Coalition or other opposition, but Kensington Heights
- 23 Civic Association has the right to say, at this point, that
- 25 Ordo 76300iation rias the right to say, at this point, tha
- 24 they would object to proceeding without their attorney --
- MR. GOECKE: Right.

- 1 MR. GROSSMAN: All right. All right.
- 2 Mr. Sheveiko.
- 3 MR. SHEVEIKO: We, we would like an adjournment.
- 4 I think it would be best in the interest of all parties and
- 5 to avoid any confusion with rotating the cross-examinations,
- 6 and it's really just three hours, and this, this, these
- 7 hearings are going to go on for a long time, and we think
- 8 it's best to just adjourn today.
- 9 MR. GROSSMAN: Okay. Well, I don't know what you
- 10 mean by rotating them. We were just talking about
- 11 Mr. Silverman doing his.
- MR. SHEVEIKO: Right, but he was, he was, you
- 13 know, following Michele, and so -- with a different line of
- 14 questioning -- so for various tactical reasons, we've
- 15 decided that adjournment would be best.
- MR. GROSSMAN: Ms. Adelman, did you want to be
- 17 heard?
- MS. ADELMAN: Well, yes. The Coalition supports
- 19 that, but Mr. Silverman could state --
- MR. SILVERMAN: I was actually hoping to ask
- 21 questions because I was expecting to --
- MR. GROSSMAN: Oh, no, we know better than that,
- 23 Mr. Silverman. Come on now.
- MR. SILVERMAN: I was expecting Michele to cover a
 - 5 lot of it. Also, some of the new material here is -- and it

Page 163

Page 165

- 1 MR. GROSSMAN: -- and I'd have to recognize that.
- 2 MR. GOECKE: We agree.
- 3 MR. GROSSMAN: So, Mr. Sheveiko, what do you feel
- 4 about having Mr. Silverman proceed with his
- 5 cross-examination now in Ms. Rosenfeld's absence, or do you
- 6 feel that you'd have to adjourn now?
- 7 MR. SHEVEIKO: Well, Mr. Silverman, that would be
- 8 a Coalition question.
- 9 MR. GROSSMAN: No, I know that would be. That
- .0 would be -- what I'm saying is, a statement was made that it
- 11 would be prejudicial to Ms. Rosenfeld if she didn't hear
- 12 what was going on. I'm just saying, if -- is there any
- 13 objection to just allowing Mr. Silverman to complete his
- 14 questions on behalf of the Kensington Heights Civic -- let
- 15 me rephrase that. Is there any objection by Kensington
- 16 Heights Civic Association to Mr. Silverman completing his
- 17 questions and --
- MR. SILVERMAN: Could we caucus on that?
- MS. CORDRY: Could we take two minutes and just
- 20 caucus and be right back in?
- MR. SHEVEIKO: Yeah, could we get 30 seconds on
- **22** this?
- 23 MR. GROSSMAN: Sure.
- MS. CORDRY: Thank you.
- 25 (Discussion off the record.)

- is new material, and it was adjusted in the course of our
- 2 discussion. I'm not sure it would --
- 3 MR. GROSSMAN: Okay.
- 4 MR. SILVERMAN: -- clarify things. There are just
- 5 a few issues that I would like to take up, but I think, I
- 6 think, I'd rather -- I feel like we have an all-star team.
- 7 I don't want to be playing without all of our members, if we
- 8 can help it.

12

15

- 9 MR. GROSSMAN: Okay. Okay. I think you have an
- 10 all-star team too --
- 11 MR. SILVERMAN: Yes.
 - MR. GROSSMAN: -- but in any event, it's really
- 13 Kensington Heights Civic Association's call --
- 14 MR. SILVERMAN: Yes.
 - MR. GROSSMAN: -- on this because they're the only
- 16 ones really to have the authority to raise the objection --
- 17 MR. SILVERMAN: Right. I will do --
- 18 MR. GROSSMAN: -- without their counsel, but --
- MR. SILVERMAN: -- what I'm instructed, yes.
- 20 MR. GROSSMAN: Okay. I will sustain your
- objection, if that's what you call it. We really can'tproceed without Ms. Rosenfeld, and so -- at this point. And
- 23 we'll come back on, on Thursday, same, same place, July 11,
- 24 and also at 9:30. And could I ask that, at least a day in
- advance of that, if not by tomorrow, that you have the

Page 168

Page 166

- 1 revised --
- 2 MR. GOECKE: 189 --
- 3 MR. GROSSMAN: -- Exhibit 189(b) --
- 4 MR. GOECKE: -- (b)(2).
- 5 MR. GROSSMAN: -- double i, yes --
- 6 MR. GOECKE: Yes.
- 7 MR. GROSSMAN: -- so that everybody can proceed
- 8 with that. Yes, sir.
- 9 MR. COLE: A point of special privilege --
- 10 MS. ADELMAN: Dr. Cole. Dr. Cole.
- 11 MR. COLE: Henry Cole.
- MR. GROSSMAN: Dr. Cole, yes, identify --
- MR. COLE: I need a disk that has an appendix on
- 14 it from the November 12th report. There were two
- 15 appendices, and one was online, which I have; the other one
- 16 I realized that I don't have and would very much like to
- 17 receive it.
- 18 THE WITNESS: What is the appendix number?
- MR. COLE: I think it's AD. It's the second one
- 20 that's very large and it's on a disk.
- MR. GROSSMAN: For the November 12th report?
- MR. COLE: Yeah.
- 23 THE WITNESS: Okay.
- 24 MR. COLE: Thank you.
- 25 THE WITNESS: Uh-huh.

Page 167

- 1 MR. GROSSMAN: All right. And when do you need
- 2 that by, Dr. Cole?
- 3 MS. ADELMAN: A month ago.
- 4 MR. GROSSMAN: Yesterday, is that, or you would
- 5 ask me tomorrow if it -- all right. So, yes, if you can
- 6 supply that --
- 7 THE WITNESS: I will.
- 8 MR. GROSSMAN: -- Mr. Sullivan. All right. Is
- 9 there anything else that we need to take up? Don't forget,
- 10 also, during our interregnum here, if you guys can all get
- 11 together and discuss dates so that we can --
- MS. CORDRY: We can do that before we leave, I
- 13 think.
- MR. GROSSMAN: -- agree on a whole new set of
- 15 dates. I think we probably ought to set up six dates just
- in case; however, I'm perfectly happy to have it finished in
- 17 one more day if you can all do it. All right. Anything
- 18 else?
- 19 MR. GOECKE: No.
- MR. GROSSMAN: All right. Then we are adjourned
- 21 until Thursday at 9:30.
- 22 (Whereupon, at 2:04 p.m., the hearing was
- 23 adjourned.)
- 24
- 25

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

	acoustic (9)	15:1,2,16,19;16:6,9,16,	agency (3)	79:23;101:14;
	82:23,24;86:24;87:5,	25;17:3,8,11,18;18:7,	28:12;29:5,7	117:13;120:15;121:25;
A	20;88:2;103:20;104:6,	12;19:3,7,10,20,23;	agency's (2)	122:2;123:16;149:14;
ahandanina (1)	17	20:1;34:3,5,9,15,22;	28:13,13	150:8
abandoning (1) 64:7	acoustical (2)	35:2,8,16,18;36:3;37:9,	ago (2)	Amy (1)
abatement (1)	73:11;119:10	10,11,16,20;39:12;	65:11;167:3	80:11
35:10	acronym (1)	45:7,11;46:17;55:2,3,4,	agree (15)	analyses (1)
Abernathy (1)	27:10	9;96:11;131:5,6,7;	16:1,7,8,12,15;24:1;	97:21
63:18	across (4)	159:4;160:11,13,14,15;	59:8,12;134:4;143:10;	analysis (23)
Abernathy's (1)	49:23;95:8;96:4;	164:16,18;166:10;	144:6,7;150:17;163:2;	8:1;30:6;31:9;32:7;
7:13	112:11	167:3	167:14	61:12;68:22,25;69:5,
able (6)	Act (1)	adequate (1)	agreeable (1)	13;72:8;94:23;100:2;
7:25;29:5;56:18;	31:21	22:3	24:13	101:9;104:8;112:21;
62:14;156:19;161:17	acting (1)	adjacent (2)	agreed (5)	113:7,9;126:20;
above (3)	97:13	59:8;116:16	6:11;24:8;51:10;	130:17;135:16;145:19;
52:19;120:15;136:24	activity (1)	adjoining (1)	53:19;160:7	147:12;151:4
absence (2)	138:12	71:24	agreeing (2)	analyze (3)
159:12;163:5	actual (18)	adjourn (4)	16:11;23:15	31:24;55:24;120:21
absolutely (5)	6:17;49:24;62:25;	159:13,21;163:6;	agreement (3)	analyzing (2)
32:6;66:8;68:6,10;	76:2;100:1;101:7,8,9;	164:8	11:13;17:25;23:14	31:19;122:1
154:6	105:9;107:17;126:15,	Adjourned (3)	ahead (3)	and/or (3)
abstruse (1)	21;128:6,24;130:19;	159:5;167:20,23	89:1;114:5;124:24 air (11)	146:15,15;160:4
33:21	132:12;142:20;153:10 actually (20)	adjournment (3) 159:23;164:3,15	25:23;29:18,19,21,	annual (1) 54:14
absurdly (1)	8:17;9:16;10:20;	adjust (1)	25:25;29:18,19,21, 25;31:7,11;64:8;	answered (1)
17:13	26:20;41:4;64:10,14;	5:14	111:20;127:9,13	88:4
accelerate (1)	79:9;84:10;88:14;	adjusted (1)	albeit (1)	anticipate (1)
97:19	106:23;109:18;111:24;	165:1	110:6	30:11
accelerated (1)	115:21;127:8;136:2;	Administration (2)	alerted (1)	anymore (4)
97:17 accelerating (3)	144:4;148:12;155:6;	82:4,6	79:11	7:7;67:6,9;158:23
97:25;98:1,4	164:20	administrative (1)	Alexandria (1)	apologize (10)
acceleration (1)	AD (1)	11:3	40:14	10:23;41:8,16;49:17;
97:21	166:19	admissible (1)	allocate (1)	59:18;113:8;130:4;
accept (5)	add (7)	30:9	108:7	131:16,18;135:9
15:22;16:4;28:12;	26:23;39:19;56:16;	adopt (1)	all-or-nothing (1)	apparent (1)
92:8;162:12	109:17;122:21;128:3;	77:16	15:23	157:16
acceptable (2)	149:9	advance (3)	allow (4)	apparently (2)
12:1;92:2	added (6)	15:5,12;165:25	4:6;30:5;76:16;	124:7;156:4
acceptance (1)	100:16,18;101:4;	AERMOD (2)	145:20	Appeals (12)
20:14	107:2;109:12;148:14	64:19;65:5	allowable (1)	4:4,19,21;23:3,5;
accepted (2)	adding (7)	affect (2)	120:3	24:4,17,19,24;27:19,
29:22;30:4	56:13,17;58:2;66:13; 109:8,9,9	28:9;30:21 affected (1)	allowed (1) 121:5	25;28:4
accepts (1)	addition (2)	25:1	allowing (2)	appear (1) 35:21
15:21	28:9;109:16	afield (1)	8:9;163:13	appears (4)
accomplish (1)	additional (11)	34:6	all-star (2)	86:13;99:13;121:15;
8:12	6:25;7:8,9;8:23;	afternoon (2)	165:6,10	147:14
accomplishing (1) 8:11	11:13;12:2;55:21;	136:15;160:3	almost (2)	appendices (3)
accordance (1)	109:9;116:15;123:14;	again (34)	28:24;156:18	84:11;101:2;166:15
103:16	156:6	4:14;8:24;10:4;	along (11)	appendicy (1)
according (6)	additive (3)	14:10;22:21;23:4;	6:13;21:23;36:7;	84:9
6:12;7:18;22:5;26:2;	95:17;100:16;108:6	25:20;31:14;41:16,23;	40:24;42:9,16;114:23;	Appendix (12)
124:8;128:3	address (3)	44:7,23;47:15,22;	126:15,22;127:17,22	84:8,17,20,25;85:16,
accordingly (1)	8:2,21;59:3	49:17;56:3;58:22;	although (7)	17,20;110:22;112:2;
59:10	addressed (3)	59:18,20;60:3;64:19;	6:17;7:15;8:19;33:5;	114:22;166:13,18
accounted (1)	8:23;119:2;123:12	65:2;86:7;88:15;92:6;	52:14;64:2;161:20	apple (1)
103:8	addresses (1)	95:11;107:15;114:22;	always (2)	155:20
accounting (1)	31:6	127:16;130:16;148:16;	26:6;37:19	applicable (5)
82:22	addressing (1)	156:17,21;161:25	amenable (1)	27:20;28:23;36:1;
accounts (1)	8:6	against (1)	11:20	135:7;137:17
102:5	ADELMAN (67)	162:20	among (1) 76:15	applicant (12)
accurate (2)	5:3,4,15;11:6;12:5,7, 15,19;13:18,24;14:10;	agencies (3) 29:1,10;31:22	amount (9)	6:15,20,25;23:8; 25:12,25;28:11;56:4;
18:8;154:2	13,17,13.10,24,14.10,	27.1,10,31.22	amount (7)	23.12,23,20.11,30.4,

58:19,23;157:9,14	associated (10)	91:5	11	bi (1)
applicant's (2)	107:16;108:13;	automatically (1)	backup (3)	36:25
116:23;159:11	107:10,103:13,	102:1	41:2,6;60:25	bias (1)
application (3)	125:19;126:1;132:15,	automobile (1)	badly (1)	149:18
6:23;111:3;157:16	20;137:9	4:6	161:1	bigger (1)
applied (3)	Association (4)	Automobiles (3)	bailiwick (1)	47:24
33:9;79:5;87:22	159:19;162:21,23;	87:12;102:14,15	34:17	binding (1)
applies (1)	163:16	Autos (3)	ball (1)	23:21
31:22	Association's (1)	93:4;94:18;112:10	7:22	bit (8)
apply (8)	165:13	available (7)	barraged (1)	17:4;31:2;35:13;
31:21;32:21;33:17;	assume (14)	11:19;12:8;17:20;	7:8	40:5;44:1;47:23;62:17;
87:23;104:8,16,20;	24:12;33:2;34:15,25;	19:5;31:11;108:15;	barrier (2)	111:11
145:24	69:11,21;70:16;73:22;	162:17	82:22;88:2	bites (1)
appreciate (2)	92:14;98:5;106:19;	Avenue (4)	barriers (1)	155:20
33:22;100:25	151:15,18,22	42:16;53:6;109:1;	82:13	black (1)
approach (7)	assumed (5)	114:16	base (2)	148:15
9:17;15:14;44:18,25;	52:6;65:24;94:2;	average (20)	69:12;113:13	blue (2)
53:3;65:2;84:13	151:21;153:22	72:21;90:4;94:7;	based (18)	107:11;108:11
appropriate (1) 161:15	assuming (20) 43:22;51:14,24;	95:10;96:6;115:14,16; 118:7,23;119:2,5;	7:25;17:25;20:23;	Board (10) 4:3,18,21;23:3,5;
approximately (12)	68:14;89:25;93:20,25;	122:7,22,22;123:20;	27:14;72:14,21,23; 73:15;100:7;101:16;	24:4,16,19,24;34:23
48:7;50:22;96:10,21;	94:5,11,17,24;95:8,18,	135:23;136:8,22;	108:12;111:7,8;	body (1)
97:7;98:16;103:21;	23;96:5,25;111:9;	141:6,8	142:20,20;150:12;	32:4
116:2;123:18;133:18;	123:13;128:16;133:10	averaging (2)	153:2;160:2	bolstering (1)
134:3;136:18	assumption (4)	73:13;110:16	basically (6)	155:22
April (1)	74:5;97:11;112:17;	avoid (1)	30:1;42:2;67:18;	both (9)
4:12	152:21	164:5	69:24;95:5,18	8:8;45:14;50:1;
area (34)	assumptions (11)	awake (1)	basing (1)	73:12;87:21,25;
18:20;23:7;24:6,7;	52:12;61:6,7;69:24;	5:9	114:18	126:25;153:25,25
30:23;31:9;52:15;	82:16;84:6;111:20;	aware (3)	basis (11)	bottom (8)
59:10,10;71:20,23,25;	114:23;115:25;117:17;	85:19;114:24;145:19	27:16;28:15;44:16;	42:5;49:23;86:16;
72:12,12;77:7,8;92:16;	130:20	away (5)	60:23;61:9;115:15;	87:1;94:14;103:3;
107:12,13,14;113:1;	attached (4)	67:19;131:3,16;	126:1;130:13,19;	127:3;149:8
133:6,6,11,12,14,18,20,	61:10,13,15,22	132:21;135:25	138:3;158:18	bound (1)
22;134:1,10;137:13;	attachment (1)	A-weighting (2)	bear (3)	142:5
146:4,5	61:14	121:4;144:24	7:12;52:10;122:19	bounds (1)
areas (9)				17.10
21.2.54.22.77.2.2.	attachments (3)	D	become (1)	17:10
31:3;54:22;77:2,3;	10:15,17;61:17	В	23:21	box (1)
92:13;103:6;124:14;	10:15,17;61:17 attempt (1)		23:21 began (1)	box (1) 148:15
92:13;103:6;124:14; 137:17;143:6	10:15,17;61:17 attempt (1) 21:3	b2 (1)	23:21 began (1) 158:11	box (1) 148:15 boxes (2)
92:13;103:6;124:14; 137:17;143:6 around (4)	10:15,17;61:17 attempt (1) 21:3 attempted (1)	b2 (1) 166:4	23:21 began (1) 158:11 begins (1)	box (1) 148:15 boxes (2) 148:13;149:8
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10;	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16	b2 (1) 166:4 B-5a (1)	23:21 began (1) 158:11 begins (1) 26:19	box (1) 148:15 boxes (2) 148:13;149:8 brain (1)
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1)	b2 (1) 166:4 B-5a (1) 120:3	23:21 began (1) 158:11 begins (1)	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10;	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18	b2 (1) 166:4 B-5a (1) 120:3 back (27)	23:21 began (1) 158:11 begins (1) 26:19 begun (1)	box (1) 148:15 boxes (2) 148:13;149:8 brain (1)
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1)	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1)	b2 (1) 166:4 B-5a (1) 120:3	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2)
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2)	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10;	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2)	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1)	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22;	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21)
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1)	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24;	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1)	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17;
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13 article (1)	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1) 162:24	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24; 151:1;155:22;156:2,	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1) 19:24	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17; 102:21;103:5,6,11,16,
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13 article (1) 63:18	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1) 162:24 audible (3)	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24; 151:1;155:22;156:2, 20;157:14,24;159:2,8;	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1) 19:24 below (2)	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17; 102:21;103:5,6,11,16, 23;104:1,2,5,24;125:1,
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13 article (1) 63:18 articles (1)	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1) 162:24 audible (3) 5:23;100:13;125:11	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24; 151:1;155:22;156:2, 20;157:14,24;159:2,8; 162:17;163:20;165:23	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1) 19:24 below (2) 42:22;53:10	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17; 102:21;103:5,6,11,16, 23;104:1,2,5,24;125:1, 2,3,7;135:4;137:9;
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13 article (1) 63:18 articles (1) 63:17	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1) 162:24 audible (3) 5:23;100:13;125:11 audience (2)	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24; 151:1;155:22;156:2, 20;157:14,24;159:2,8; 162:17;163:20;165:23 background (42)	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1) 19:24 below (2) 42:22;53:10 beneficial (1)	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17; 102:21;103:5,6,11,16, 23;104:1,2,5,24;125:1, 2,3,7;135:4;137:9; 155:13;159:1
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13 article (1) 63:18 articles (1) 63:17 Aside (1)	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1) 162:24 audible (3) 5:23;100:13;125:11 audience (2) 5:20;96:16	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24; 151:1;155:22;156:2, 20;157:14,24;159:2,8; 162:17;163:20;165:23 background (42) 49:21,24;62:7;73:2;	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1) 19:24 below (2) 42:22;53:10 beneficial (1) 25:11	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17; 102:21;103:5,6,11,16, 23;104:1,2,5,24;125:1, 2,3,7;135:4;137:9; 155:13;159:1 breaking (1)
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13 article (1) 63:18 articles (1) 63:17 Aside (1) 101:6	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1) 162:24 audible (3) 5:23;100:13;125:11 audience (2) 5:20;96:16 August (8)	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24; 151:1;155:22;156:2, 20;157:14,24;159:2,8; 162:17;163:20;165:23 background (42) 49:21,24;62:7;73:2; 81:10;100:7,16;101:4,	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1) 19:24 below (2) 42:22;53:10 beneficial (1) 25:11 best (7)	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17; 102:21;103:5,6,11,16, 23;104:1,2,5,24;125:1, 2,3,7;135:4;137:9; 155:13;159:1 breaking (1) 56:11
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13 article (1) 63:18 articles (1) 63:17 Aside (1) 101:6 aspect (2)	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1) 162:24 audible (3) 5:23;100:13;125:11 audience (2) 5:20;96:16 August (8) 99:17;140:3,4,13,17,	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24; 151:1;155:22;156:2, 20;157:14,24;159:2,8; 162:17;163:20;165:23 background (42) 49:21,24;62:7;73:2; 81:10;100:7,16;101:4, 10;105:12,19,23;106:1,	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1) 19:24 below (2) 42:22;53:10 beneficial (1) 25:11 best (7) 26:7;32:10;159:21,	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17; 102:21;103:5,6,11,16, 23;104:1,2,5,24;125:1, 2,3,7;135:4;137:9; 155:13;159:1 breaking (1) 56:11 breaks (4)
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13 article (1) 63:18 articles (1) 63:17 Aside (1) 101:6 aspect (2) 15:20;19:10	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1) 162:24 audible (3) 5:23;100:13;125:11 audience (2) 5:20;96:16 August (8) 99:17;140:3,4,13,17, 19,25;141:1	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24; 151:1;155:22;156:2, 20;157:14,24;159:2,8; 162:17;163:20;165:23 background (42) 49:21,24;62:7;73:2; 81:10;100:7,16;101:4, 10;105:12,19,23;106:1, 6,9,11;107:1,8;108:3,6,	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1) 19:24 below (2) 42:22;53:10 beneficial (1) 25:11 best (7) 26:7;32:10;159:21, 24;164:4,8,15	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17; 102:21;103:5,6,11,16, 23;104:1,2,5,24;125:1, 2,3,7;135:4;137:9; 155:13;159:1 breaking (1) 56:11 breaks (4) 105:2,3,5;150:24
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13 article (1) 63:18 articles (1) 63:17 Aside (1) 101:6 aspect (2) 15:20;19:10 assessing (1)	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1) 162:24 audible (3) 5:23;100:13;125:11 audience (2) 5:20;96:16 August (8) 99:17;140:3,4,13,17, 19,25;141:1 authority (5)	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24; 151:1;155:22;156:2, 20;157:14,24;159:2,8; 162:17;163:20;165:23 background (42) 49:21,24;62:7;73:2; 81:10;100:7,16;101:4, 10;105:12,19,23;106:1, 6,9,11;107:1,8;108:3,6, 22;109:14,17;114:13,	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1) 19:24 below (2) 42:22;53:10 beneficial (1) 25:11 best (7) 26:7;32:10;159:21, 24;164:4,8,15 better (5)	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17; 102:21;103:5,6,11,16, 23;104:1,2,5,24;125:1, 2,3,7;135:4;137:9; 155:13;159:1 breaking (1) 56:11 breaks (4) 105:2,3,5;150:24 brief (3)
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13 article (1) 63:18 articles (1) 63:17 Aside (1) 101:6 aspect (2) 15:20;19:10 assessing (1) 74:15	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1) 162:24 audible (3) 5:23;100:13;125:11 audience (2) 5:20;96:16 August (8) 99:17;140:3,4,13,17, 19,25;141:1	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24; 151:1;155:22;156:2, 20;157:14,24;159:2,8; 162:17;163:20;165:23 background (42) 49:21,24;62:7;73:2; 81:10;100:7,16;101:4, 10;105:12,19,23;106:1, 6,9,11;107:1,8;108:3,6, 22;109:14,17;114:13, 13,18;115:3;126:4;	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1) 19:24 below (2) 42:22;53:10 beneficial (1) 25:11 best (7) 26:7;32:10;159:21, 24;164:4,8,15	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17; 102:21;103:5,6,11,16, 23;104:1,2,5,24;125:1, 2,3,7;135:4;137:9; 155:13;159:1 breaking (1) 56:11 breaks (4) 105:2,3,5;150:24
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13 article (1) 63:18 articles (1) 63:17 Aside (1) 101:6 aspect (2) 15:20;19:10 assessing (1)	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1) 162:24 audible (3) 5:23;100:13;125:11 audience (2) 5:20;96:16 August (8) 99:17;140:3,4,13,17, 19,25;141:1 authority (5) 24:3,16,19;29:6;	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24; 151:1;155:22;156:2, 20;157:14,24;159:2,8; 162:17;163:20;165:23 background (42) 49:21,24;62:7;73:2; 81:10;100:7,16;101:4, 10;105:12,19,23;106:1, 6,9,11;107:1,8;108:3,6, 22;109:14,17;114:13,	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1) 19:24 below (2) 42:22;53:10 beneficial (1) 25:11 best (7) 26:7;32:10;159:21, 24;164:4,8,15 better (5) 17:16;22:2;52:11;	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17; 102:21;103:5,6,11,16, 23;104:1,2,5,24;125:1, 2,3,7;135:4;137:9; 155:13;159:1 breaking (1) 56:11 breaks (4) 105:2,3,5;150:24 brief (3) 27:6;36:19;123:16
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13 article (1) 63:18 articles (1) 63:17 Aside (1) 101:6 aspect (2) 15:20;19:10 assessing (1) 74:15 assessment (2)	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1) 162:24 audible (3) 5:23;100:13;125:11 audience (2) 5:20;96:16 August (8) 99:17;140:3,4,13,17, 19,25;141:1 authority (5) 24:3,16,19;29:6; 165:16	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24; 151:1;155:22;156:2, 20;157:14,24;159:2,8; 162:17;163:20;165:23 background (42) 49:21,24;62:7;73:2; 81:10;100:7,16;101:4, 10;105:12,19,23;106:1, 6,9,11;107:1,8;108:3,6, 22;109:14,17;114:13, 13,18;115:3;126:4; 128:20;130:14,20;	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1) 19:24 below (2) 42:22;53:10 beneficial (1) 25:11 best (7) 26:7;32:10;159:21, 24;164:4,8,15 better (5) 17:16;22:2;52:11; 159:22;164:22	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17; 102:21;103:5,6,11,16, 23;104:1,2,5,24;125:1, 2,3,7;135:4;137:9; 155:13;159:1 breaking (1) 56:11 breaks (4) 105:2,3,5;150:24 brief (3) 27:6;36:19;123:16 bring (2)
92:13;103:6;124:14; 137:17;143:6 around (4) 117:5;136:8;145:10; 149:17 arrive (1) 25:9 arriving (1) 125:21 arrow (1) 37:13 article (1) 63:18 articles (1) 63:17 Aside (1) 101:6 aspect (2) 15:20;19:10 assessing (1) 74:15 assessment (2) 44:11;48:13	10:15,17;61:17 attempt (1) 21:3 attempted (1) 40:16 attend (1) 30:18 attention (2) 79:11;126:23 attenuate (1) 104:7 attorney (1) 162:24 audible (3) 5:23;100:13;125:11 audience (2) 5:20;96:16 August (8) 99:17;140:3,4,13,17, 19,25;141:1 authority (5) 24:3,16,19;29:6; 165:16 authorize (1)	b2 (1) 166:4 B-5a (1) 120:3 back (27) 8:16,24;13:2,10; 14:22;19:22;26:13; 36:20;39:22;66:4; 88:15;95:14;114:22; 117:3;131:23,24; 151:1;155:22;156:2, 20;157:14,24;159:2,8; 162:17;163:20;165:23 background (42) 49:21,24;62:7;73:2; 81:10;100:7,16;101:4, 10;105:12,19,23;106:1, 6,9,11;107:1,8;108:3,6, 22;109:14,17;114:13, 13,18;115:3;126:4; 128:20;130:14,20; 142:20;143:22;146:14;	23:21 began (1) 158:11 begins (1) 26:19 begun (1) 4:12 behalf (2) 4:18;163:14 behind (1) 134:6 believes (1) 19:24 below (2) 42:22;53:10 beneficial (1) 25:11 best (7) 26:7;32:10;159:21, 24;164:4,8,15 better (5) 17:16;22:2;52:11; 159:22;164:22 beyond (6)	box (1) 148:15 boxes (2) 148:13;149:8 brain (1) 5:14 brakes (2) 98:8,10 Brann (2) 5:7,7 break (21) 17:13;36:13,17; 102:21;103:5,6,11,16, 23;104:1,2,5,24;125:1, 2,3,7;135:4;137:9; 155:13;159:1 breaking (1) 56:11 breaks (4) 105:2,3,5;150:24 brief (3) 27:6;36:19;123:16 bring (2) 30:13;126:23

7,9;48:25;49:9;50:19,

23;51:4;52:1;53:20;

cases (1)

103:22

-		1	1	
brought (5)	54:25;55:17,22,24;	cast (1)	28:17;40:23;41:24,	clean (1)
9:2;27:11;34:9;	56:3,5;57:3,6,8,9;58:3,	35:22	25;48:23;84:24;85:2,6;	31:11
79:10;157:3	5,7,12;59:16;62:10;	caucus (2)	86:10	clear (15)
budgeting (1)	64:13;85:1;87:16;	163:18,20	CHASE (17)	27:24;42:11;47:15;
31:14	89:18;90:22;95:11;	cause (2)	46:7,9,14,17,18,19,	52:1,3;53:17,17;57:18;
build (3)	102:10;113:15;115:10;	119:14;121:11	20,23;47:1,1,1,3;48:6;	60:12;81:5;102:4;
43:1,2;117:17	116:20,23;118:22,23;	cautioned (1)	160:20,23,24;162:16	107:15,22;133:23,24
building (3)	125:10;129:7,15,16;	30:12	check (4)	clearer (1)
4:16,17;121:22	133:4,16;134:20;	CD (4)	19:18;140:10;142:8;	47:12
built (1)	135:21;139:21;140:6,	38:6,25;39:5;41:3	159:11	Clearly (8)
154:1	7;141:10,11,13;143:4,	CDs (1)	checked (1)	22:17;33:22;47:24;
bullet (1)	6,20;145:3,6,10;	39:17	20:21	79:7;88:1;112:1;138:4;
103:3	149:24;155:15,22;	center (2)	choice (1)	162:1
burden (2)	161:13;162:20;165:8;	8:8;133:11	27:4	clinkers (1)
32:3;158:18	166:7;167:5,10,11,12,	centered (1)	choose (1)	31:25
burst (1)	17	8:12	15:4	clock (3)
119:9	Cancer (9)	centimeter (1)	chunks (1)	136:13;148:16;
bus (4)	42:23;44:24,24;	62:15	17:14	149:12
95:9,16;102:18;	45:14;48:9,10,14,15,20	central (3)	circle (1)	close (9)
112:13	candidate (1)	8:3,4,5	59:9	59:7;105:13;132:19;
Buses (1)	48:10	certain (15)	Circuit (1)	136:25;138:8,11,13,14, 21
93:4	canopy (1)	13:3;15:22;27:13,13;	27:25	
busiest (3)	133:21	34:18;41:2;56:13;58:2;	circular (2)	close-in (3)
139:9,14,17	Capital (1)	73:6,7;83:25;87:13,13,	8:23;128:2	59:5,11,13
C	34:24	14;94:6	circumstances (1)	closer (4)
	capture (1)	certainly (24)	37:18	10:12;31:11,12;
C 2 (1)	109:16	8:4;10:10;11:2,8;	citation (2)	138:24
C-2 (1)	captured (2)	33:20;39:19;63:1;	33:3;71:18	closest (8)
4:10	108:2;109:13	82:15;84:14;89:19;	Cite (1) 119:21	44:12;50:7;53:10;
c4 (1) 121:21	car (1) 102:18	90:22;91:25;98:25;	cited (1)	59:6,23;133:22,24; 134:17
	carbon (2)	101:15,18;111:22; 112:23,25;136:8;	119:7	closing (1)
calculate (1) 152:14	42:4;59:23	139:7;142:8;145:3;	citing (3)	121:22
	42.4,39.23 carefully (1)	161:21;162:13	7:13;55:20;81:14	Club (5)
calculated (1) 134:3	49:23	cetera (1)	citizen (1)	14:18;26:14;27:7;
calculations (9)	carry (1)	35:10	35:23	33:3;63:22
40:18;42:25;60:21;	96:4	chair (2)	citizens (1)	CO (2)
61:7,9;101:25;128:4;	cars (28)	66:4;161:22	158:14	59:19,21
153:1,4	42:9,12,16,24;43:2;	challenge (1)	Civic (6)	Coalition (9)
calculator (1)	50:12,13;54:4,5;72:24;	20:24	159:19;162:21,23;	4:25;5:4;11:20;12:7;
97:4	73:4;91:4;94:5,8;95:5,	change (7)	163:14,16;165:13	15:2;161:6;162:22;
calendar (1)	8;101:20,21;108:24;	88:3;94:14,14,16;	claiming (1)	163:8;164:18
140:9	109:9;110:25;114:8;	137:9;157:11;158:23	113:1	code (19)
call (6)	127:9,10;132:18,21;	changes (7)	clarification (8)	71:14;74:8;75:10,14,
36:24;48:25;95:3;	139:5,8	26:21;69:8;87:24;	45:3;51:4;53:20;	20,21,23,25;76:4;
143:17;165:13,21	cart (2)	157:2,3,10;158:22	58:8,10;62:13;63:6;	77:11,18,22;78:2,3;
called (5)	138:9,10	Chapter (5)	149:5	79:17;80:16,18;
5:21;92:14;107:11;	carton (1)	71:14;74:7;75:6,22;	clarified (2)	119:24,25
108:12;129:5	83:6	76:11	50:20;67:14	codifying (1)
came (5)	carts (3)	characteristic (1)	clarifies (1)	64:3
108:8,14;112:22;	132:21;138:9,10	119:13	13:16	cogitating (1)
123:7;160:25	case (31)	characterization (2)	clarify (23)	11:12
can (104)	4:22;8:13;24:11;	116:17;123:2	17:19,23;19:11;21:5;	Cole (14)
5:14;8:10;9:3,10;	25:10;28:13,22,22;	chart (36)	36:8;40:16,16;41:8;	11:9,11;12:7;166:9,
10:5,8;11:4,4,5;12:20;	29:18,19;30:21;33:3,6,	40:18;42:1;45:12;	46:10;48:12;50:1,10,	10,10,11,11,12,13,19,
15:25;16:12,21;17:13,	17;47:9;50:5;63:22;	46:4;49:8,8,15,22;51:8,	23;51:2;58:15;59:16;	22,24;167:2
14,23;19:3,10;23:6;	64:13;65:12;66:20;	9;52:13,13,16,17;	79:3;97:10;101:3;	collected (3)
24:1;25:22;26:1,7,18;	67:11;77:22;109:9,20;	54:10;55:15;56:6,13,	151:13;160:21,25;	70:1;106:6;114:14
28:16;29:18;32:11;	126:6;143:7;145:25;	19;58:17;81:9;83:21;	165:4	column (12)
34:2;36:14;37:14;	155:24;156:3;158:18;	87:1,11,15,16,18,23,	clarifying (1)	44:23,24;54:22;89:4,
39:18;41:10;43:1;45:7,	161:19;167:16	23;88:8;89:6,10,11;	67:23	24;90:8,15,16,18,25;
7 9.48.25.49.9.50.19	*	92:13:100:14:148:2	clarity (1)	93.2.95.7

92:13;100:14;148:2

charts (9)

clarity (1)

66:23

93:2;95:7

columns (3)

56:11;89:4;91:1 COMAR (5) 74:12;75:14;76:4; 78:4:79:1 combine (1) 125:7 combined (1) 142:21 coming (7) 42:9,12,16;50:9; 58:3;84:6;155:22 comment (1) 162:6 commentary (2) 66:13;67:11 comments (2) 21:20;66:18 commercial (4) 4:11;43:2,12;50:15 Commission (2) 34:24;159:20 commitment (1) 22:16 commonplace (1) 37:14 community (11) 21:4;23:2;25:11,25; 26:7;79:24;80:1,2,5; 106:11;109:2 comparable (1) 42:21 compare (1) 87:20 compared (3) 50:7;62:11,16 comparing (2) 85:5,6 comparison (4) 43:18:62:14:142:19: 143:3 complaint (1) 157:8 complete (2) 55:4;163:13 completely (1) 25:4 completing (1) 163:16 complex (2) 17:13;72:19 compliance (2) 79:18:143:14 component (3) 21:19;31:18;32:18 components (1) 56:12 compounds (1) 44:11 comprehension (1) 32:9 comprises (1) 58:17 compute (3)

70:23;103:21;106:15 computed (2) 73:10;134:13 computer (6) 10:2;41:4;57:20; 88:6,7,11 concentration (1) 46:2 concentrations (1) 42:4 concept (5) 48:1;63:7;64:7,8; 102:13 concern (6) 6:9;20:22;79:12; 120:11;121:24;157:3 concerns (2) 21:4;77:13 conclude (3) 143:4,7,21 concluded (1) 150:16 concludes (1) 72:8 conclusions (6) 7:16;62:21;64:20; 72:5;84:7,21 condition (2) 23:16;24:19 conditions (4) 15:21;24:6;29:14; 150:17 conduct (6) 144:18.19:150:22. 23;160:8,18 conducted (8) 4:18:35:6:69:13: 112:23:126:15.21: 128:24:147:15 conducting (2) 70:16,18 confer (1) 13:2 configuration (1) 6:16 confines (1) 148:15 confirm (3) 84:9;91:21;100:23 confirmation (1) 110:11 conflict (3) 18:6;80:20,22 confused (7) 27:2;41:11,15;46:5; 66:7;67:15;124:4 confusing (7) 41:9;45:2;47:10; 48:24;49:8;59:18; 89:23 confusion (2) 65:15:164:5 connection (1)

88:10 conservatism (3) 48:18;61:11;95:22 conservative (3) 97:11;98:19;111:19 conservatively (1) 97:13 consider (8) 24:25;26:8;58:20; 97:20;112:24;122:17; 126:4;133:2 consideration (1) 30:7 considered (1) 73:18 considering (1) 134:18 consistent (2) 14:7;25:22 constant (5) 97:24;111:4,9,10; 125:25 construct (1) 4:6 construction (2) 109:3;121:23 consult (1) 25:23 Consulting (1) 40:14 contain (1) 76:19 contained (9) 71:14:74:7:78:4.11: 81:23;101:19;128:10; 135:17;153:23 containers (1) 121:22 contains (1) 84:20 contend (1) 77:21 contention (1) 88:18 context (2) 62:9,19 continuation (1) 149:3 continue (4) 49:9;159:23;160:4,8 continuous (1) 138:17 contractual (2) 17:25;19:13 contribution (4) 40:24;50:6;108:10; 114:9 control (9) 18:5;75:7,11,23,25; 76:2,12;77:17;80:19 controlling (1)

122:18 convenience (2) 5:11:76:1 convenient (2) 124:25;125:3 conversation (1) 160:2 copied (2) 6:1;11:5 copies (12) 6:16;9:3;14:3,14; 36:9,16,21;39:8,8; 74:12;131:4,16 copy (22) 9:2,10;10:1,24;11:1, 4;36:18;38:12,13,14; 61:21;83:2,7,9,13,14, 17,19;84:16;101:1; 146:4;149:25 corals (1) 138:9 Cordry (81) 5:1,1;10:6;22:14; 28:1;38:2,5,9,12,16,19, 24;39:4,16,20;46:19; 51:17;56:2,9,15,24; 57:2,4,10,15,19,22,25; 58:10,14,17;64:10,13; 88:6,10,14;96:13,19; 119:8,12,18,23,25; 120:2,6,16,19,23; 121:7.10.18.21:122:9. 12,14,25;151:10; 154:12.23:155:3: 156:10,14,16,24;157:6, 9,12,23;159:16,22; 160:4,7,21,25;161:4,9, 25;162:11;163:19,24; 167:12 corner (1) 133:25 corollary (1) 101:22 Corporation (1) 4:3 corrected (2) 49:25;52:1 corrections (2) 41:22;156:24 correctly (2) 48:2;81:14 correlate (1) 134:17 correlates (1) 137:4 correlating (1) 101:22 correlation (1) 101:13 corresponding (1)

65:15

87:17

corroborate (1)

corroborating (2) 142:25:143:2 Costco (44) 4:3,24;5:5,6,7;11:21; 17:21;18:1;19:6,7,14, 18;33:11;43:1;70:3,14; 73:3;103:9;109:3,3,21; 115:15,19;116:9,12; 117:14,24,25;118:1,2, 4;122:3,5,8,10;124:12; 126:13;127:23;128:18; 137:1,2,11;151:6; 153:12 Council (5) 4:17;7:4;32:11; 35:24;68:8 counsel (5) 39:15;159:11; 160:18;161:11;165:18 count (1) 142:12 counts (13) 62:9,10,17;73:15; 87:21;126:21;128:6,7; 145:25;146:15;147:7, 8,11 county (25) 29:12;32:2;34:18; 35:25;36:1;71:11,14, 18,18,20;75:21,23; 78:2;79:8,17;80:15,18; 81:2:88:20:103:7.17: 119:24,25;143:14; 146:16 County's (4) 71:13;74:7;75:7; 77:25 couple (2) 20:4;84:24 **course** (18) 7:6;17:2;25:13; 50:14;68:5;78:23; 104:4;109:4;113:17; 114:6;120:9,10; 123:25;132:17;145:9, 24;148:25;165:1 Court (5) 27:19,25;28:3;46:12, 22 cover (3) 31:3;137:10;164:24 coverage (1) 135:3 covered (1) 134:19 create (6) 31:13;55:20;87:8;

88:19;101:21;118:15

created (1)

creates (1)

104:4

credit (4)

87:9

122:11

controls (1)

dated (1) 7:5 dates (13) 6:25;11:13,16,20,21, 23;12:2,12,18;153:21; 167:11,15,15	define (1) 15:17 defined (2) 33:10;71:20 definitely (1) 68:13 definition (4)	developing (1) 147:11 development (2) 31:17,18 diagram (1) 133:15 diagrams (1)	7:14;63:21;70:22 discussion (6) 6:24;33:7;112:23; 161:10;163:25;165:2 discussions (1) 34:11	84:4;105:7 double (3) 48:25;51:6;166:5 double-check (1) 148:24 double-counting (1)
dated (1) 7:5 dates (13)	15:17 defined (2) 33:10;71:20	147:11 development (2) 31:17,18	7:14;63:21;70:22 discussion (6) 6:24;33:7;112:23;	84:4;105:7 double (3) 48:25;51:6;166:5
dated (1) 7:5	15:17 defined (2)	147:11 development (2)	7:14;63:21;70:22 discussion (6)	84:4;105:7 double (3)
dated (1)	15:17	147:11	7:14;63:21;70:22	84:4;105:7
	, ,			
153:21;156:3	- m /a:	dovolonina (1)	discussing (3)	dots (2)
12:3,14;150:23;	160:15	32:1,19	77:12	117:19;120:17
date (5)	deference (1)	developed (2)	discusses (1)	doors (2)
154:6,9;155:10	91:6,19	32:18	135:2;161:16	118:14;119:13
18;151:20;153:16,19;	default (2)	develop (1)	discussed (2)	door (2)
142:7,8,16,25;143:7, 11;148:24;150:15,16,	declaration (1) 76:14	determining (1) 29:6	7:16;12:17;14:19,20; 167:11	6,9;123:7,8;153:14; 156:23
130:13;135:16;137:10;	4:22;28:18	37:12;73:6	discuss (5)	110:2,8;112:25;115:4, 6,9;123:7,8;153:14;
103:9;108:15;116:9;	decision (2)	determined (2)	119:15;121:11	41:5;57:3;100:19;
24;99:25;101:9,10;	164:15	82:12;92:4;123:5	discrete (2)	15:5,12;40:8,15;
64:20;86:9;87:15,16,	decided (1)	29:5,10;32:11;79:18;	14:8	done (17)
8:15;9:19;45:2;	158:18	determine (7)	discrepancy (1)	117:21
data (33)	28:22;34:17;155:21;	27:8;31:6	126:4;144:1	dollies (1)
159:18	decide (4)	deterioration (2)	disagree (2)	48:14;67:7;71:11;75:6
18:24 Danila (1)	120:13,15;121:14; 136:23	detect (2) 31:24,25	122:19;135:2,7;136:2, 11;137:8	documents (8) 8:18;20:6,8;33:21;
Dan (1)	90:3,6;101:23;103:7;	95:13	33:18;48:14;103:9;	105:17
115:15	70:25;71:5,7;73:8;	detailed (1)	16:19;30:14;32:22;	documented (1)
daily (1)	decibels (12)	7:23;41:1	directly (12)	60:20,22;101:19
	136:22	detail (2)	37:13	10:13;40:19;55:5;
D	18;122:24;123:20;	31:24;79:24;104:6	direction (1)	documentation (6)
158:17	102:20;103:18;104:15; 118:22,22,23;119:3,3,	80:1;110:4 designed (3)	8:8,10,24,24;24:4; 40:3;103:14;160:2	113:15;129:25;130:25; 131:9;132:1
74:18,24;156:5;	76:19;101:21;	design (2)	direct (8)	71:18;84:16;87:8,10;
cut (4)	decibel (14)	92:2;149:16	83:5	66:6,8,21,24;67:3;
24:3	98:7	described (2)	dig (1)	61:13;65:4,16,19,21;
currently (1)	decelerating (1)	88:1;135:21	8:18;156:18;158:24	8:19;18:13;41:7;
35:12;71:3	27:8	41:1;53:16;62:10;	difficulty (3)	document (22)
current (2)	deals (1)	describe (5)	5:17	28:21
12:25	44:12;162:18	107:16	difficulties (1)	doctrines (1)
59:24;62:15;63:9 curious (1)	27:20,25;28:3 deal (2)	81:24;91:16;100:1;	difficult (1) 158:14	doctrine (1) 27:8
50:6;51:7;53:1;	DC (3)	71:10 derived (4)	70:6;152:12	120:16;132:23
cubic (6)	24 DC (3)	derive (1)	differential (2)	docks (2)
68:3;156:3,7	102:20;121:3,6;136:7,	71:1;98:8;128:18	164:13	125:20,22;126:1;133:1
cross-examine (3)	89:5,22;90:9,15,16;	depends (3)	150:16;157:11;160:1;	116:14;117:15,18;
164:5	dBA (10)	43:23	141:15;143:5,24;	dock (7)
cross-examinations (1)	89:22	delta (1)	4;135:3;137:10;	47:8
160:4,8;161:12;163:5	dB (1)	117:14;126:13;136:10	105:1,4;118:22;129:2,	divide (1)
153:8;158:15;159:23;	73:8;92:5	95:3;114:25;116:2;	92:13;93:7;104:12,13;	120:10
8:9,10,22;49:11; 58:13;68:1,17;76:11;	145:10 daytime (2)	51:1,13,15,17,19,22,23, 25;52:2;53:2,3,12;	58:19;69:25;71:2; 82:20;86:15;88:2;	7:17;39:17 disturbance (1)
cross-examination (15)	40:21;70:1;139:17;	50:14,14,16,17,24;	38:23;42:22;56:9,12;	distribution (2)
77:1,7	days (4)	delivery (23)	10:14;22:13,19,22;	38:6;39:15
crosses (2)	165:24;167:17	54:6;115:24;116:11	different (32)	distributed (2)
94:14;160:19;162:14	159:20;162:14,18,18;	deliveries (3)	86:11;93:12	114:10
cross (3)	156:1,1;157:17;	115:15;126:8	13:6;44:12;85:1;	distinguish (1)
6:19	150:18,21;153:14,15;	deliver (2)	difference (5)	52:16,19,19;72:10
89:3;91:2,23;92:1 critiquing (1)	23;146:1,1,16;149:19;	21:19	42:19	distinction (4)
Criteria (4) 89:5;91:2,23;92:1	140:24;141:9,23; 142:3;145:15,18,18,21,	162:15 deleted (1)	51:23 differ (1)	distance (4) 7:18;134:9;137:4,5
120:12	125:21,25;139:1,9,14;	delay (1)	diesel (1)	5:19
crest (1)	71:8;116:4,8;123:18;	115:23	23:6	disorienting (1)
103:21	4:2;41:14;51:14,15;	degree (1)	dictate (1)	5:15;37:22
credits (1)	day (39)	120:8	73:3,16	disoriented (2)
104:15,20	9:19;40:13	definitions (1)	Dick's (2)	166:13,20
102:21;103:18;	David (2)	33:12;119:8;120:8,9	9:10	disk (2)

100.7	122 12 14 10		02 10 112 11	110 17 110 10 10
109:7	133:12,14,18	engineering (6)	82:18;113:11	118:17;119:18,19;
doubt (1)	effect (6)	12:24;13:6,9,10,19;	et (1)	121:12;122:8;136:7
78:1	34:16;88:23;111:13;	14:11	35:10	Excel (2)
down (5)	123:7;145:1,7	English (2)	evaluate (3)	61:7,8
21:1;42:5,22;49:15;	eight (1)	47:12;60:12	6:22;30:9;41:5	Excellent (2)
121:19	45:20	enjoyment (1) 76:17	evaluated (1) 40:19	19:23;20:1
download (3)	eight-foot (1) 82:24		evaluating (2)	exception (15) 4:5;23:3,4,7,13,17,
38:20,24;39:6 downwind (1)	82:24 eighth (1)	enough (3) 27:2;45:10;124:22	22:25;101:15	20;24:2,6,7;25:10;
134:22	4:2	enter (2)	even (5)	92:16;107:13;113:12;
Dr (16)	either (7)	110:10;116:13	7:24;8:21;30:20;	115:1
5:4;11:11;12:7;15:1;	49:2;101:1;133:7;	enter/exit (1)	35:21;97:16	excerpt (1)
34:3;46:17,18,19;47:1;	142:15;155:11,11;	50:13	evening (1)	75:24
48:6;160:23;162:16;	160:3	entered (3)	128:5	excerpts (6)
166:10,10,12;167:2	Eleanor (2)	87:15,16;142:12	event (4)	75:6,9,13;102:25;
draft (2)	39:10;161:8	entering (2)	23:2;125:23,24;	126:16;129:20
65:19;66:21	electronic (6)	132:18,20	165:12	exchange (4)
drew (1)	6:15;14:2,14;18:17;	entire (3)	events (5)	6:12;11:23;17:6;
113:3	61:15,24	85:16,17;107:13	26:24;149:17,18;	25:9
drive (1)	element (1)	entitled (2)	150:20,25	exchanged (1)
116:14	124:8	9:18;55:19	everybody (8)	6:1
drives (1)	eliminate (1)	entrance (1)	7:12,25;8:10;24:15;	exchanges (1)
95:5	12:15	113:12	26:25;36:17;88:8;	6:9
driving (3)	else (14)	environment (1)	166:7	excitement (1)
97:15;113:11;116:15	5:20;9:10;14:9;	62:17	everybody's (2)	26:23
drop (3)	23:16;39:15;61:23;	environmental (12)	23:15;24:13	excuse (3)
44:15,17;103:24	67:22;81:2;95:22;	28:24;29:1;30:20,21;	everyone (2)	14:10;65:1;146:24
dubious (1)	139:21,21;157:2;	31:21;32:20;40:14;	39:15;161:6	exempt (5)
31:25	167:9,18	74:8;75:10;76:4;78:15;	evidence (13)	73:23,24;74:4;78:21,
Duckett (4)	e-mail (5)	85:23	4:20;16:14;18:3,4,6;	22
39:10;161:7,8,8	6:12;14:18;15:6;	EPA (16)	30:8;35:8;55:19,20;	exemptions (2)
due (1)	24:15;33:2	14:18;26:15;27:7,8,	56:5;88:22;116:20;	78:12,18
150:24	e-mails (3)	14;28:22;48:13,14;	126:6	exercise (4)
Duke (3)	5:25;6:3,5	58:4;63:3,8;64:2,7;	evidenced (1)	25:13;31:14;80:12;
18:24;19:15,16	emanating (1)	65:12;66:20;67:11	37:22	142:22
Duke's (1)	79:5	EPA's (1)	exact (4)	Exhibit (49)
13:21	embarrassing (1)	59:9	69:23;71:11,17;	6:8,20,21;7:1,3,3,4,
duration (2)	49:17	equally (2)	105:18	15,19;8:16;9:17;14:1,
148:9,12	embedded (4)	87:23,25	exactly (3)	4;36:21,23,24;37:2,8,
during (11)	48:18;50:24;61:12;	equipment (1)	57:6;134:14;144:5	23,24,25;39:23;40:6,8,
40:21;60:21;71:6,8;	91:6	121:23	examination (2)	15;41:23;45:13;48:24,
73:8,8;99:20;111:4;	emergency (1)	equivalent (2)	6:22;40:3	25;61:20;66:10,22;
148:21;161:11;167:10	12:12	55:15;127:23	Examiner (5)	67:23;75:18,19;76:6;
	emission (2)	Erich (1)	4:20;23:5;24:4,17;	81:12,13;85:14,15,20,
${f E}$	119:15;121:11	5:7	113:9	25;113:9;126:20;
	emitted (1)	error (1)	examiners (1)	128:1;146:11,19,20;
earlier (12)	72:9	49:17	37:21	166:3
59:5;65:19;66:21;	empathetic (1)	especially (1)	example (22)	Exhibits (4)
99:1;112:22;124:9;	135:14	37:12	29:11;31:5,14;34:13;	6:4,7,24;75:16
135:2;139:23;142:18;	emphasize (1)	essence (1)	40:18;44:3;45:19;	exist (2)
149:17;151:21;162:8	133:5	73:18	50:20;52:22;56:23;	67:6,9
easier (2)	enable (1)	essentially (5)	62:4;79:24;82:12;	existence (1)
59:17,20	41:4	18:5;19:12;24:20;	87:12;98:2;101:20;	34:12
easily (3) 37:22;128:19,21	encourage (1) 26:6	48:2;137:3	102:14;103:14;111:23; 112:3;116:3;118:14	existent (1) 35:1
east (4)	end (2)	establish (1) 72:2	examples (1)	existing (2)
92:21,24;93:1;	155:23;162:17	established (1)	121:19	31:1;110:3
92:21,24,93:1; 113:11	energy (1)	35:25	exceed (6)	exists (2)
economic (3)	119:10	establishing (1)	77:2;88:20;119:17;	14:9;28:14
31:17,18;32:8	enforce (1)	29:16	122:23;124:12,12	exiting (1)
economy (1)	34:18	establishment (1)	exceeded (1)	132:18
31:7	engine (1)	153:12	80:1	expect (9)
edge (3)	126:10	estimated (2)	exceeds (6)	20:5;23:16;97:11;
cuge (b)	120.10	- Communica (2)	CACCOUD (U)	20.5,25.10,77.11,

146:9;157:14

filed (14)

104:15,17;105:3;	factor (4)	6:6,18,19,25;7:21,	155:12	11:5;21:23,23;44:15,
128:20;139:8,13	116:14;117:12;	24;8:4,7,15,20;9:24,24;	follow (4)	17;134:21;135:6,24;
expectation (2)	120:12;124:6	20:23;68:24	32:10,15;34:25;	153:6;154:7;162:9
82:11;93:17	factored (3)	files (8)	35:20	future (6)
expected (3)	115:25;126:2,10	41:4,6;61:11,15;	following (4)	35:4,12;36:25;43:6,
70:4;72:23,25	factors (1)	62:1;64:19,25;142:9	35:5,24;153:11;	11;50:23
expecting (2)	123:14	filing (1)	164:13	,
164:21,24	facts (1)	8:23	forbidden (2)	G
				G
experience (1)	16:12	filings (3)	29:1,3	
31:23	factual (2)	6:3,4,23	forget (1)	gallons (8)
expert (6)	25:3;72:13	filling (1)	167:9	12:24,25;69:11,20,
15:5;42:2;96:15;	factually (2)	4:7	forgetting (1)	23;152:4,6,10
112:20,24;123:15	16:11;18:8	final (7)	107:23	garage (10)
expertise (1)	fair (7)	4:22;20:14;25:16,18;	form (1)	17:23;19:12;92:20;
113:2	72:4;123:2;124:22;	51:25;75:13;144:9	100:19	93:1;94:1,21;95:24;
experts (1)	139:6,7;153:17,18	finally (2)	formally (1)	98:13,20;115:12
96:17	fairly (4)	17:23;41:2	20:15	Gas (74)
explain (3)	13:3;116:12;132:19;	find (7)	formatting (1)	4:24;7:10;19:8;
39:23;85:1;138:3	138:13	17:12;18:9,13;52:21;	16:2	22:12,15,16,19,20,20,
explicitly (1)	fairness (2)	69:9;90:22;98:25	formed (1)	23;42:3,9,12,14,17;
78:3	68:10;156:2	finder (2)	130:19	43:1,13,15,24;45:14;
exposed (2)	falls (1)	26:5;63:13	formula (1)	50:3,4,5,11,12;51:1;
46:1;48:9	33:12	finding (1)	102:3	52:17,23;54:2,2,17,19;
Exposure (3)	familiar (1)	25:4	formulated (1)	59:6,22;62:10;63:11;
46:5;48:11;62:16	71:13	findings (5)	130:13	69:5,14,15,17,21;70:4;
exposures (1)	far (8)	28:13,14;77:12;	forth (8)	72:25;73:4;88:19;
105:20	6:13;29:5;34:6;	83:23;135:8	41:6;50:13;53:7;	92:17;103:9;105:14;
extend (3)	40:23;54:18;123:11,	fine (10)	72:18;77:3;111:1;	109:4,11,16,19,21;
			112:1;161:23	
6:13,14;21:23	15;153:9	17:7,11,18;20:1;		110:3;116:16;122:3,8,
extended (2)	faster (2)	45:3;49:19;52:23;	forward (4)	23;124:1,12;132:16,
116:15;155:25	39:6;111:24	58:14;63:9;159:4	39:2;66:23;161:15;	18;133:5,6,12,14,17;
oxtongion (1)	C4 C 1 (2)	m 4 = = (a)		
extension (1)	Iast-1000 (2)	finished (2)	162:13	136:25:137:18.19:
extension (1) 21:23	fast-food (2) 53:22:63:18	finished (2)	162:13 found (1)	136:25;137:18,19;
21:23	53:22;63:18	124:17;167:16	found (1)	141:24;142:16;152:4,
21:23 extensive (1)	53:22;63:18 federal (12)	124:17;167:16 first (17)	found (1) 18:9	141:24;142:16;152:4, 22
21:23 extensive (1) 34:11	53:22;63:18 federal (12) 29:1;31:22;34:1;	124:17;167:16 first (17) 10:8;12:1;15:3;	found (1) 18:9 four (20)	141:24;142:16;152:4, 22 gasoline (9)
21:23 extensive (1)	53:22;63:18 federal (12)	124:17;167:16 first (17)	found (1) 18:9	141:24;142:16;152:4, 22
21:23 extensive (1) 34:11 extent (10)	53:22;63:18 federal (12) 29:1;31:22;34:1;	124:17;167:16 first (17) 10:8;12:1;15:3;	found (1) 18:9 four (20) 11:25;12:1;31:13;	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20;
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11;	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20;	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25;	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9,
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19;	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11)	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12;	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13;	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23;	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9;	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19;	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5)
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4)	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14;	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1;
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1)	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1)	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4)	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14;	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1;
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2)	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3)	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1)	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8)
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12)	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1)	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23;
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1)	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7)	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1;	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8,
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25;	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20;	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3)	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1)	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19;	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1)
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1)	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1)	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19;	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1)
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1)	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2)	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7)
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4)	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1)	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24;
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21;	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2)	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1)	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5)	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3)
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1) 157:16	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5 field (1)	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17 fix (1)	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5) 65:16;81:19;84:11;	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3) 97:12;102:15,18
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1) 157:16 facility (3)	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5 field (1) 120:12	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17 fix (1) 156:21	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5) 65:16;81:19;84:11; 136:11;140:9	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3) 97:12;102:15,18 generated (2)
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1) 157:16	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5 field (1)	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17 fix (1)	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5) 65:16;81:19;84:11;	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3) 97:12;102:15,18
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1) 157:16 facility (3) 31:10;40:25;43:2	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5 field (1) 120:12 figure (8)	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17 fix (1) 156:21 flat (1)	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5) 65:16;81:19;84:11; 136:11;140:9 fuel (7)	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3) 97:12;102:15,18 generated (2) 102:1;109:25
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1) 157:16 facility (3) 31:10;40:25;43:2 facing (1)	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5 field (1) 120:12 figure (8) 12:18;84:2;100:6;	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17 fix (1) 156:21 flat (1) 103:4	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5) 65:16;81:19;84:11; 136:11;140:9 fuel (7) 12:24;50:16,17;	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3) 97:12;102:15,18 generated (2) 102:1;109:25 generates (1)
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1) 157:16 facility (3) 31:10;40:25;43:2 facing (1) 22:23	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5 field (1) 120:12 figure (8) 12:18;84:2;100:6; 105:7;132:20;135:17;	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17 fix (1) 156:21 flat (1) 103:4 flaws (1)	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5) 65:16;81:19;84:11; 136:11;140:9 fuel (7) 12:24;50:16,17; 51:17,19;54:6;70:5	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3) 97:12;102:15,18 generated (2) 102:1;109:25 generates (1) 126:9
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1) 157:16 facility (3) 31:10;40:25;43:2 facing (1) 22:23 fact (21)	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5 field (1) 120:12 figure (8) 12:18;84:2;100:6; 105:7;132:20;135:17; 154:19;161:4	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17 fix (1) 156:21 flat (1) 103:4 flaws (1) 157:16	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5) 65:16;81:19;84:11; 136:11;140:9 fuel (7) 12:24;50:16,17; 51:17,19;54:6;70:5 full (4)	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3) 97:12;102:15,18 generated (2) 102:1;109:25 generates (1) 126:9 geographical (1)
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1) 157:16 facility (3) 31:10;40:25;43:2 facing (1) 22:23 fact (21) 23:13,23,25;26:5;	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5 field (1) 120:12 figure (8) 12:18;84:2;100:6; 105:7;132:20;135:17; 154:19;161:4 figures (7)	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17 fix (1) 156:21 flat (1) 103:4 flaws (1) 157:16 flip (1)	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5) 65:16;81:19;84:11; 136:11;140:9 fuel (7) 12:24;50:16,17; 51:17,19;54:6;70:5 full (4) 89:6;147:3;148:5,9	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3) 97:12;102:15,18 generated (2) 102:1;109:25 generates (1) 126:9 geographical (1) 143:24
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1) 157:16 facility (3) 31:10;40:25;43:2 facing (1) 22:23 fact (21)	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5 field (1) 120:12 figure (8) 12:18;84:2;100:6; 105:7;132:20;135:17; 154:19;161:4 figures (7) 19:25;124:9,11;	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17 fix (1) 156:21 flat (1) 103:4 flaws (1) 157:16 flip (1) 40:18	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5) 65:16;81:19;84:11; 136:11;140:9 fuel (7) 12:24;50:16,17; 51:17,19;54:6;70:5 full (4) 89:6;147:3;148:5,9 fully (2)	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3) 97:12;102:15,18 generated (2) 102:1;109:25 generates (1) 126:9 geographical (1)
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1) 157:16 facility (3) 31:10;40:25;43:2 facing (1) 22:23 fact (21) 23:13,23,25;26:5; 34:10;35:10;41:11;	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5 field (1) 120:12 figure (8) 12:18;84:2;100:6; 105:7;132:20;135:17; 154:19;161:4 figures (7) 19:25;124:9,11;	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17 fix (1) 156:21 flat (1) 103:4 flaws (1) 157:16 flip (1)	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5) 65:16;81:19;84:11; 136:11;140:9 fuel (7) 12:24;50:16,17; 51:17,19;54:6;70:5 full (4) 89:6;147:3;148:5,9	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3) 97:12;102:15,18 generated (2) 102:1;109:25 generates (1) 126:9 geographical (1) 143:24
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1) 157:16 facility (3) 31:10;40:25;43:2 facing (1) 22:23 fact (21) 23:13,23,25;26:5; 34:10;35:10;41:11; 42:25;43:15,20;56:2;	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5 field (1) 120:12 figure (8) 12:18;84:2;100:6; 105:7;132:20;135:17; 154:19;161:4 figures (7) 19:25;124:9,11; 128:8,9;133:23;148:6	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17 fix (1) 156:21 flat (1) 103:4 flaws (1) 157:16 flip (1) 40:18 floor (4)	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5) 65:16;81:19;84:11; 136:11;140:9 fuel (7) 12:24;50:16,17; 51:17,19;54:6;70:5 full (4) 89:6;147:3;148:5,9 fully (2) 64:7;153:10	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3) 97:12;102:15,18 generated (2) 102:1;109:25 generates (1) 126:9 geographical (1) 143:24 geometry (2) 104:12,13
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1) 157:16 facility (3) 31:10;40:25;43:2 facing (1) 22:23 fact (21) 23:13,23,25;26:5; 34:10;35:10;41:11; 42:25;43:15,20;56:2; 63:3,3,13;88:1;111:23;	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5 field (1) 120:12 figure (8) 12:18;84:2;100:6; 105:7;132:20;135:17; 154:19;161:4 figures (7) 19:25;124:9,11; 128:8,9;133:23;148:6 file (2)	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17 fix (1) 156:21 flat (1) 103:4 flaws (1) 157:16 flip (1) 40:18 floor (4) 4:16;104:13,14,25	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5) 65:16;81:19;84:11; 136:11;140:9 fuel (7) 12:24;50:16,17; 51:17,19;54:6;70:5 full (4) 89:6;147:3;148:5,9 fully (2) 64:7;153:10 function (3)	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3) 97:12;102:15,18 generated (2) 102:1;109:25 generates (1) 126:9 geographical (1) 143:24 geometry (2) 104:12,13 Georgia (4)
21:23 extensive (1) 34:11 extent (10) 21:6;25:19;61:11; 77:25;80:13,19,19; 142:24;143:12;158:2 extra (4) 9:13;83:2;122:20,21 extrapolate (2) 134:24;137:8 extrapolated (1) 150:13 eyes (1) 7:22 F face (1) 157:16 facility (3) 31:10;40:25;43:2 facing (1) 22:23 fact (21) 23:13,23,25;26:5; 34:10;35:10;41:11; 42:25;43:15,20;56:2;	53:22;63:18 federal (12) 29:1;31:22;34:1; 36:1;82:6,8,14;107:17, 19;145:21;146:15,16 feel (11) 17:5;156:11;159:23; 160:5,17;161:11,12,14; 163:3,6;165:6 feeling (3) 159:10,22;161:1 feet (7) 6:14;21:24;22:25; 23:1;134:3,15;136:3 felt (1) 24:10 few (4) 5:19;153:21,21; 165:5 field (1) 120:12 figure (8) 12:18;84:2;100:6; 105:7;132:20;135:17; 154:19;161:4 figures (7) 19:25;124:9,11; 128:8,9;133:23;148:6	124:17;167:16 first (17) 10:8;12:1;15:3; 16:18;18:25;19:6;30:7; 45:12;54:13;59:20; 75:6;76:11;86:12; 92:23;113:15;131:9; 161:22 fits (1) 109:23 five (12) 6:13;12:16;23:1; 36:16;86:19;102:20; 103:7,17,22;104:15,19; 121:14 five-foot (2) 21:15,16 five-minute (2) 36:12,17 fix (1) 156:21 flat (1) 103:4 flaws (1) 157:16 flip (1) 40:18 floor (4)	found (1) 18:9 four (20) 11:25;12:1;31:13; 51:15,16;52:9;69:25; 86:19;89:4;92:13; 93:24;94:8,12;95:4,19; 96:6,7,8;99:8;103:22 Fourth (1) 41:15 framework (1) 122:16 frankly (3) 18:7;143:15;154:1 freeway (1) 7:19 Friday (1) 6:7 front (5) 65:16;81:19;84:11; 136:11;140:9 fuel (7) 12:24;50:16,17; 51:17,19;54:6;70:5 full (4) 89:6;147:3;148:5,9 fully (2) 64:7;153:10	141:24;142:16;152:4, 22 gasoline (9) 33:11;53:2;69:11,20; 110:7;137:12;139:9, 17;141:22 gave (5) 10:18;127:25;128:1; 131:3,16 general (8) 4:11;59:10;97:23; 102:13;108:25;117:8, 24;155:19 generalized (1) 29:21 generally (7) 35:19;40:6;50:24; 98:9;120:10;130:16,17 generate (3) 97:12;102:15,18 generated (2) 102:1;109:25 generates (1) 126:9 geographical (1) 143:24 geometry (2) 104:12,13

12:10;41:5;49:18;

further (11)

114:16

-			
germane (1)	8:18;9:21;44:12;	109:5,10,15,22;110:5,	27:14;34:19;79:15,
143:11	83:3,8;150:18	9,12,19,23;111:12,15,	20,20,22,25;80:14;
gets (1)	greater (1)	17;113:19;116:19;	103:8,17;145:20;
90:10	138:4	117:2,5,8;118:1,6,11,	146:6,19
given (9)	greatest (2)	19,21;119:1,6,11,17,	guys (2)
30:6,10;79:9;116:9;	119:20;121:14	21;120:1,5,18,21,25;	83:7;167:10
125:20;141:9;143:24;	GROSSMAN (507)	121:2,8,16,20,24;	,
146:9;150:3	4:2,19;5:3,8,13,18,	122:10,13,15;123:2,4,	\mathbf{H}
gives (1)	24;9:4,6,9,14,16,18,22;	9,11,13,23;124:3,6,16,	
137:14	10:8,10,23,25;11:3,6,8,	19,22,25;125:6,10,12,	half (3)
glad (2)	10,12,14,15,18,24;	17;126:17;127:20;	17:11;123:18;125:8
67:14;79:10	12:5,6,9,17,20;13:5,9,	128:7,11;129:12,13,17,	hand (1)
glasses (1)	12,15,18,21,25;14:12,	21;130:7,10;131:2,13,	31:23
85:3	22,25;15:3,8,18,24;	16,17,19,21,24;132:3,	handed (3)
GOECKE (82)	16:8,10,21;17:1,4,9,16;	6;135:9,11,14;140:2,5,	36:23;102:20;144:13
5:5,5;9:13,15,21;	18:2,11,16;19:19,21,	8,24;141:1,10,13,18,	handing (1)
10:1,12,15,18,22;	24;20:2,7,9,20,22;	20;142:17;143:1,17,	75:5
26:16,17,18,25;27:4;	21:10,14,17,22;22:5,	20;144:5,8,12,16;	handling (1)
37:3,4,6;38:8,17,22;	24;23:22,25;24:22;	146:3,7,11,18;149:7,	121:22
39:24;40:1,4;41:17,18;	25:2,6,8,18;26:11,12,	10;151:5;152:1,5,16;	handout (4)
43:20;46:25;59:2; 60:18;61:17;62:2,4;	17,23;27:2,5,22,24;	153:5,7;154:4,9,13,18,	102:24;128:1; 129:15;144:11
	28:3,7;29:9;30:2,4,15; 32:6,14,23,25;33:15,	19,25;155:3,5,12,16,	
63:15;64:17;65:1,4,6, 10,14,18,21;66:2,4,8,	17,24;34:3,5,8,14,20,	18,24;156:13,15,22; 157:1,7,10,20;158:4,8,	hands (2) 5:24;36:16
11,15,17,20;67:1,8,11,	23;35:7,13,17,19;36:6,	137:1,7,10,20,138:4,8, 12,20;159:1,5,8,25;	3:24;30:10 handy (2)
16,24;68:5;70:7,12;	12,15,20;37:5,7,9,10,	160:12,14,22;161:3,24;	69:3,4
72:1;74:24;75:1;83:8;	15,17,21;38:2,4,11;	162:3,4,7,19;163:1,3,9,	hang (3)
113:21,24;116:17;	39:21;40:9,12,22;	23;164:1,9,16,22;	83:21;125:4;131:15
125:13;131:14;141:7;	41:10,13;43:8,14,20;	165:3,9,12,15,18,20;	happen (2)
144:2,3,7;147:6;	44:1,6,9,17,21;45:4,12,	166:3,5,7,12,21;167:1,	43:6;81:11
149:24;150:2,4;	18,22,25;46:3,7,8,11,	4,8,14,20	happened (1)
158:24,25;162:25;	15,18,21,24;47:2,13,	ground (4)	142:23
163:2;166:2,4,6;	16,20,25;48:5,8,17,19,	23:2;103:5;104:12;	happening (1)
167:19	21;49:7,14;50:16,18;	158:2	95:20
goes (8)	51:5,11;52:5,8,10,25;	ground-level (1)	happens (1)
15:3;35:5,14;52:20;	53:5,8,11,14,21,25;	104:14	22:20
89:24;91:5;99:4;	54:9,24;55:3,4,8,10,18,	grounds (1)	happy (3)
155:25	24;56:3;57:8,13,17,20,	29:16	125:9;129:19;167:16
Good (19)	24;58:6,12,16,18,22;	group (1)	hard (8)
5:3;12:18;21:7;	59:1;60:3,7,9,14;61:2,	158:14	25:17;39:7,8;47:24;
29:11;31:7,7;41:11,13;	5,10,16,19,22,25;62:3,	guarantee (1)	85:4;90:11;149:11;
55:10;59:16;68:2,19,	6,8,22;63:20,25;64:12;	29:25	158:16
20;69:10;98:8;131:18,	65:1,3,7,13,17,20,24;	guaranteeing (1)	Harris (41)
19;144:3;155:13	66:3,10,12,24;67:2,10,	29:24 Constraint (4)	5:6,6,17;11:22,25;
Goods (2)	13,22,25;68:6,10,12,	Guckert (4)	13:1,2,8,11,14,17;
73:3;115:15	14;72:4,15;74:2,10,13,	19:16;113:10;	16:19,21;17:19;18:2,
governed (1) 79:7	19,22,24;75:3,5,8,12, 15,18,22;76:9,13,18,	126:14;127:22 Cuckert's (7)	21,23,23;19:5,9,15,21; 20:8,12,14,17,21;
governing (3)	21,24;77:5,10,14,19,	Guckert's (7) 113:3,6,7,8;126:19,	
75:10;80:14,15	21;78:5,7,9,13,16,20,	25:147:10	28:25;39:9,12,14,18; 159:25;160:1,15,16;
government (1)	24;79:2,9,16,19;80:4,8,	guess (17)	162:3,4,5,8,12
30:17	17,22,25;81:3,6,11,17;	32:23,25;35:22;	head (4)
Governments (2)	83:1,3,5,9,13,14;84:13,	36:24;49:9,11;53:15;	18:22,24;53:17;
7:4;68:8	14;85:5,8,10,11,12,15,	67:25;92:7;97:5;99:6;	134:14
grant (1)	18,20,23;87:1;88:5,9,	109:24;115:8;125:6;	headers (2)
23:3	12,17,22;89:1,10,21,	140:9;154:14;155:13	86:17,19
granted (2)	25;90:3,6,10,14,25;	guessing (1)	heading (2)
23:17;25:11	91:10,14,22;92:4,10;	152:16	90:25;93:3
graph (2)	93:12,16,18;96:17,20,	guidance (4)	health (6)
105:8;136:5	23;98:6;99:2,6,10,12;	31:4;32:5,21;34:2	28:10,10,11;31:15;
graphic (1)	102:9,11,23;105:21;	guideline (1)	76:16;77:12
129:25	106:2,7,12,18,22,25;	63:12	healthy (1)
great (6)	107:3,6,9;108:21;	guidelines (13)	29:7
	, , , , , , , , , , , , , , , , , , , ,	. ,	

Hinds (1) 7:16

	1	T.		
hint (1)	ideal (1)	4:7;44:18;50:13;	initially (1)	involved (2)
8:7	22:22	53:22;54:15,18;68:7;	41:15	41:16;122:7
history (1)	ideally (2)	73:1,3;104:1;126:13;	initiates (1)	irrelevant (1)
31:8	126:3;150:18	144:23;151:3	77:6	16:13
hoisted (1)	identification (4)	included (27)	Input (4)	irritate (2)
35:15	38:1;76:8;86:1;	6:4;41:7;42:18;	91:1,5,5;93:10	88:13,16
Hold (14)	146:21	44:23;45:1,15,19;	inputs (1)	issue (14)
9:11;12:23;45:4;	identified (5)	50:21;51:3;53:4;54:12,	91:12	8:4,5;25:4;27:9;31:6,
51:5;63:20;94:23;	12:13;93:8;105:7;	22;59:22;71:4;73:2,5;	inputted (1)	15;34:9;62:25;115:8;
121:2,16,17;124:22;	127:1;128:22	84:7;95:22;98:23;	95:16	122:11;143:15,19;
125:10;130:4;155:12;	identify (8)	100:21;109:6;115:4,	insert (1)	156:9;158:5
160:22	4:23;12:2;46:11,15,	11,20;143:12;151:14;	128:2	issues (9)
holiday (3)	21,25;128:23;166:12	155:7	installed (1)	8:3;50:1;67:19,20;
5:10;145:21;153:15	idling (7)	includes (4)	43:23	107:1;156:21;157:12,
holidays (2)	151:3,5,9,11,16,18,	42:15;53:11;54:3;	instance (4)	22;165:5
146:16,17	23	68:21	56:10;119:9,14,16	item (1)
home (11)	ignored (1)	including (3)	instantaneous (2)	12:21
44:12;47:17,18;50:7,	32:22	40:24;42:8,15	118:23;119:3	т
21;53:2,10;59:6,7,23;	illegitimate (1)	increase (12)	instead (1)	J
104:11	43:18	7:9;27:13;45:14;	49:20	- (-)
homes (2)	immaterial (1)	50:22;94:19;108:16;	instructed (1)	January (5)
104:25;134:12	16:13	112:16,17;115:22;	165:19	69:2;157:14,24;
Honor (1)	immediately (1)	117:12;145:3,5	intended (2)	158:1,3
156:17	115:1	increased (1) 128:8	21:20;146:13	job (1)
hooked (1) 88:7	impact (13) 7:18;35:4;63:7;	increment (4)	intent (2) 41:8;62:12	36:2
hope (2)	65:11;79:23;89:5;	27:9,10,16;123:19	intention (1)	jobs (2) 31:13,18
20:18;37:19	91:22;118:8,9;124:2,6,	incremental (25)	40:17	judgment (2)
hoping (3)	7;143:9	7:9;42:3,14;45:14;	interest (2)	35:11;106:10
12:10;39:5;164:20	impacts (8)	50:5,11;52:17,23;	24:10;164:4	judgments (1)
hospital (1)	40:23;50:3,9,25;	54:17,19;56:20;57:5;	interesting (1)	32:3
161:2	63:14;73:1;103:7;	59:22;60:1;72:24;73:1;	30:22	judicial (2)
hour (36)	153:13	94:19;108:1,16;	interface (1)	140:3,5
93:9,10,10,20;94:1,7,	important (4)	113:24,25;114:9,11,17;	67:20	July (7)
8,12,24;95:1,10,19;	8:12,18;30:24;64:8	122:2	intermittent (2)	4:15,15;6:5,7;41:15;
96:6,7,8,18,22;97:1,3,	impose (2)	increments (1)	145:11;150:20	157:15;165:23
7,8,12;98:14,15,20;	24:19;144:21	27:19	internal (1)	June (7)
108:25;111:25;113:10;	imposed (1)	independent (2)	91:19	4:13,13,13;6:2;9:19,
116:2;123:19;124:1;	144:19	25:4;126:9	internally (1)	20;40:17
125:9;127:3,16;128:4,	impossibleness (1)	independently (1)	101:24	jurisdiction (3)
5	156:19	40:20	interpret (1)	29:4;30:25;31:1
hours (3)	impression (1)	indicate (1)	104:5	jurisdictional (1)
95:4;111:5;164:6	21:12	136:10	interpretation (1)	24:21
houses (1)	improve (2)	indicated (10)	87:7	jurisdictions (1)
104:9	24:8;157:4	6:21;11:25;63:4;	interregnum (1)	77:16
HT (2)	improved (1)	103:20;124:9;133:9;	167:10	T/
95:1;112:13	157:24	136:9;160:3;161:1;	interrupt (2)	K
hundred (1)	improvement (1)	162:8	88:17;149:24	T7 (1)
62:16	21:21	indicates (1)	into (20)	Kamen (1)
hundreds (1)	improving (3)	12:24	17:14;26:18;30:8;	20:18
62:15	157:18,21;158:1	indication (1)	32:8;33:12;48:18;88:7,	Karen (4)
Hurlocker (2)	impulse (1) 123:25	64:6 indicative (1)	11;91:5;93:25;109:25;	5:1;39:7;159:22;
12:22;14:7 hurting (1)	impulsive (8)	153:10	110:10;115:25;121:19; 123:7;126:2,10;146:4;	160:20
31:7	119:9,15;120:7,9,14;	indoor (1)	156:4,18	keel (1) 8:8
hypothetical (4)	121:12;122:4,18	62:17	intricate (3)	keenly (1)
35:13;43:21,24;94:9	inadequate (2)	indulge (1)	116:12,18,21	156:11
	21:8,21	151:25	introduced (1)	keep (11)
I	inappropriate (3)	information (14)	116:25	7:22;8:7;26:25,25;
	21:19;143:15,17	38:23;41:3,6;42:5;	invalidated (1)	31:7;47:6;107:23;
idea (5)	inclined (1)	60:25,25;62:8;68:4;	27:19	125:9,12;155:22;158:6
21:20;69:16;100:5;	143:21	70:13;84:21;100:3;	investigation (1)	Ken (1)
110:3;139:16	include (13)	109:25;148:14;153:3	31:8	47:1
110.0,102.10			22.0	.,,,

Kensington (25)	4:24	levels (40)	132:19;133:7,8,9,18;	loud (1)
41:5;72:18;100:11;	last (7)	22:18;63:7;69:17;	134:2,6;135:22,23,25;	65:8
101:7,11;103:13;	6:2;10:19,19,21;	70:25;72:3,9,22;73:14;	134.2,0,133.22,23,23, 136:6,17,20;137:8,22;	louder (6)
105:13;108:3;114:20;	20:18;43:22;76:25	77:2;82:18,24;83:25;	138:1,2,4,7,13,15,21,	98:3,5;138:5,20,21,
130:2,11,21;144:10;	later (5)	87:20;91:1,9;92:2,3;	22;149:2,3,5,14,20,23;	24
147:19,20,21;150:10,	28:15;30:10;35:15;	101:16,16;106:11;	150:6;155:7	lovely (1)
14;153:19;159:19;	138:25;156:3	110:24;111:4;112:17;	locations (23)	37:17
162:20,22;163:14,15;	LATR (1)	110.24,111.4,112.17, 114:12;115:3;118:7,8,	59:6,11;62:11;82:13;	low (3)
165:13	146:18	10;119:19;120:4,15;	105:10,11;106:4,6,10;	44:15;142:5;153:16
key (3)	latter (1)	123:21;124:13,21;	107:8;114:16;126:22;	lower (8)
53:15;54:24;55:1	160:6	137:13;143:13;145:4;	129:3,4,5;132:12;	44:19;73:7;98:7;
KHCA (5)		157:15;145:15;145:4;		
	law (7) 32:1;34:1;75:7;76:2;	likely (3)	133:5;134:22;135:6; 147:15,25;148:7;	121:14;137:22,23;
5:1,2;6:19;11:16; 116:25	79:8;143:14;158:19	34:18;48:10;95:15	154:11	138:16;153:15 lowered (2)
KHCA's (2)	laws (3)	limit (7)	logically (1)	44:20,20
7:1;88:18	30:20;32:20;76:1	24:3,15;92:6;122:8;	153:15	lunch (3)
		137:16,18;149:18		125:7;155:14;159:2
kilometer (1) 96:19	lawyer (1) 30:21		logistical (1) 39:22	luncheon (1)
		limitation (2)		
kilometers (8)	lawyers (3)	24:20,21	long (10)	159:6
94:8,12;95:19;96:7,	62:24;64:16,16	limitations (1)	7:13;9:9;16:22;17:9,	M
8;97:1;98:14;111:25	LDN (2)	76:20	12;25:14;31:8;124:10;	M
Kim (1) 7:16	70:22;71:4	limited (1) 150:19	149:20;164:7	maintanance (1)
	lead (1)		longer (5)	maintenance (1)
kind (13)	39:24	limits (1)	21:9;27:20;28:14;	7:5
8:23;18:17;26:4;	lease (1)	122:24	63:3;118:16	major (4)
31:15;32:8;33:10;	43:17	Lindsey's (1)	look (30)	33:4,12;62:18;82:10
35:23;51:22;82:23;	least (10)	80:12	9:17;13:10;25:20;	makes (4)
110:7;117:12;137:13;	13:22;18:25,25;	line (23)	28:17;32:4,19;42:6;	27:12;30:13,22;
157:11	20:18;36:16;56:17;	12:10;16:24;49:23;	52:2;69:1,2;76:11,22;	72:10
kinds (4)	129:4;145:20;146:13;	52:22;53:9;54:3;90:11,	78:24;79:22,25;80:13;	making (9)
30:25;33:13;56:17;	165:24	12,13;134:10,11,17;	81:9;86:16;87:11;89:3;	31:8;32:3,8;44:10;
118:22	leave (6)	135:1,4;137:5,9;154:7,	92:12;93:2;121:17,17;	52:19;58:25;69:8;
knew (1)	36:3;62:23;64:15;	10,15,15;155:6,11;	127:2;129:24;132:11;	116:11;155:3
18:9	116:13;161:1;167:12	164:13	137:25;141:22;147:14	Mall (17)
knowledge (1)	left (6)	linear (2)	looked (3)	4:10;59:8;70:17;
32:4	5:13;14:15;82:21;	101:13;102:1	14:2;49:22;79:15	71:19,22,23,25;79:6;
known (1)	86:20;89:4;142:13	line-of-sight (11)	looking (19)	92:13;100:7,9;108:24;
4.10	1.64 1 1 (1)	100.01.100.5 (10	10.2.14.5.12.41.20.	
4:10	left-hand (1)	102:21;103:5,6,10,	10:3;14:5,13;41:20;	114:15;117:24;134:11;
knows (2)	135:22	16,23;104:1,2,5,12,24	42:3,3;52:22;57:20;	135:1;153:24
	135:22 legal (9)	16,23;104:1,2,5,12,24 line-of-sight-break (1)	42:3,3;52:22;57:20; 70:10;72:24;83:20;	135:1;153:24 management (6)
knows (2) 46:12,22	135:22 legal (9) 33:21;63:5;67:19,21,	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5;	135:1;153:24 management (6) 29:12,13;34:7,13;
knows (2)	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15;	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3)	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13,	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15
knows (2) 46:12,22 L	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2)
knows (2) 46:12,22 L label (1)	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1)	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2)	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5)	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5
knows (2) 46:12,22 L label (1) 106:12	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21;	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1)
knows (2) 46:12,22 L label (1) 106:12 labeled (2)	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1)	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3)	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1)	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2)
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2)	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1)	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7)	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1;	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1)	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20)
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1)	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3)	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11,
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1) 53:16	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3) 9:5,6,7	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6 loading (10)	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2 Lot (31)	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11, 11;31:13;36:15;43:7;
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1) 53:16 Labor (2)	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3) 9:5,6,7 less (6)	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6 loading (10) 116:13;117:15,18;	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2 Lot (31) 4:9;7:11;9:10;15:12;	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11, 11;31:13;36:15;43:7; 51:13;52:4;69:11,20;
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1) 53:16 Labor (2) 145:18;146:1	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3) 9:5,6,7 less (6) 77:17,22;111:11;	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6 loading (10) 116:13;117:15,18; 120:16;121:21;125:20,	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2 Lot (31) 4:9;7:11;9:10;15:12; 17:22;19:11;30:5;39:5;	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11, 11;31:13;36:15;43:7; 51:13;52:4;69:11,20; 96:8;97:3;98:14;
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1) 53:16 Labor (2) 145:18;146:1 land (1)	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3) 9:5,6,7 less (6) 77:17,22;111:11; 134:14;136:8;156:5	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6 loading (10) 116:13;117:15,18; 120:16;121:21;125:20, 22;126:1;132:23,25	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2 Lot (31) 4:9;7:11;9:10;15:12; 17:22;19:11;30:5;39:5; 50:8;52:11;92:18,18,	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11, 11;31:13;36:15;43:7; 51:13;52:4;69:11,20; 96:8;97:3;98:14; 110:17;123:6;131:20;
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1) 53:16 Labor (2) 145:18;146:1 land (1) 24:8	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3) 9:5,6,7 less (6) 77:17,22;111:11; 134:14;136:8;156:5 letter (5)	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6 loading (10) 116:13;117:15,18; 120:16;121:21;125:20, 22;126:1;132:23,25 local (3)	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2 Lot (31) 4:9;7:11;9:10;15:12; 17:22;19:11;30:5;39:5; 50:8;52:11;92:18,18, 19,20,23,25;93:20;	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11, 11;31:13;36:15;43:7; 51:13;52:4;69:11,20; 96:8;97:3;98:14; 110:17;123:6;131:20; 155:20;157:2
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1) 53:16 Labor (2) 145:18;146:1 land (1) 24:8 landowner (1)	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3) 9:5,6,7 less (6) 77:17,22;111:11; 134:14;136:8;156:5 letter (5) 6:19;22:6,9,9;23:11	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6 loading (10) 116:13;117:15,18; 120:16;121:21;125:20, 22;126:1;132:23,25 local (3) 77:16;81:24;146:4	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2 Lot (31) 4:9;7:11;9:10;15:12; 17:22;19:11;30:5;39:5; 50:8;52:11;92:18,18, 19,20,23,25;93:20; 94:1,13;96:25;97:8,12;	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11, 11;31:13;36:15;43:7; 51:13;52:4;69:11,20; 96:8;97:3;98:14; 110:17;123:6;131:20; 155:20;157:2 map (1)
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1) 53:16 Labor (2) 145:18;146:1 land (1) 24:8 landowner (1) 24:9	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3) 9:5,6,7 less (6) 77:17,22;111:11; 134:14;136:8;156:5 letter (5) 6:19;22:6,9,9;23:11 level (19)	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6 loading (10) 116:13;117:15,18; 120:16;121:21;125:20, 22;126:1;132:23,25 local (3) 77:16;81:24;146:4 located (3)	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2 Lot (31) 4:9;7:11;9:10;15:12; 17:22;19:11;30:5;39:5; 50:8;52:11;92:18,18, 19,20,23,25;93:20; 94:1,13;96:25;97:8,12; 109:20;111:7,25;	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11, 11;31:13;36:15;43:7; 51:13;52:4;69:11,20; 96:8;97:3;98:14; 110:17;123:6;131:20; 155:20;157:2 map (1) 129:25
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1) 53:16 Labor (2) 145:18;146:1 land (1) 24:8 landowner (1) 24:9 language (1)	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3) 9:5,6,7 less (6) 77:17,22;111:11; 134:14;136:8;156:5 letter (5) 6:19;22:6,9,9;23:11 level (19) 7:23;22:3;65:11;	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6 loading (10) 116:13;117:15,18; 120:16;121:21;125:20, 22;126:1;132:23,25 local (3) 77:16;81:24;146:4 located (3) 4:8;22:12;132:23	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2 Lot (31) 4:9;7:11;9:10;15:12; 17:22;19:11;30:5;39:5; 50:8;52:11;92:18,18, 19,20,23,25;93:20; 94:1,13;96:25;97:8,12; 109:20;111:7,25; 137:2,2,13;143:5;	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11, 11;31:13;36:15;43:7; 51:13;52:4;69:11,20; 96:8;97:3;98:14; 110:17;123:6;131:20; 155:20;157:2 map (1) 129:25 Mark (3)
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1) 53:16 Labor (2) 145:18;146:1 land (1) 24:8 landowner (1) 24:9 language (1) 74:10	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3) 9:5,6,7 less (6) 77:17,22;111:11; 134:14;136:8;156:5 letter (5) 6:19;22:6,9,9;23:11 level (19) 7:23;22:3;65:11; 70:17;88:19;97:13;	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6 loading (10) 116:13;117:15,18; 120:16;121:21;125:20, 22;126:1;132:23,25 local (3) 77:16;81:24;146:4 located (3) 4:8;22:12;132:23 location (45)	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2 Lot (31) 4:9;7:11;9:10;15:12; 17:22;19:11;30:5;39:5; 50:8;52:11;92:18,18, 19,20,23,25;93:20; 94:1,13;96:25;97:8,12; 109:20;111:7,25; 137:2,2,13;143:5; 151:19;164:25	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11, 11;31:13;36:15;43:7; 51:13;52:4;69:11,20; 96:8;97:3;98:14; 110:17;123:6;131:20; 155:20;157:2 map (1) 129:25 Mark (3) 5:4;75:15,25
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1) 53:16 Labor (2) 145:18;146:1 land (1) 24:8 landowner (1) 24:9 language (1) 74:10 large (4)	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3) 9:5,6,7 less (6) 77:17,22;111:11; 134:14;136:8;156:5 letter (5) 6:19;22:6,9,9;23:11 level (19) 7:23;22:3;65:11; 70:17;88:19;97:13; 101:21,22;104:10;	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6 loading (10) 116:13;117:15,18; 120:16;121:21;125:20, 22;126:1;132:23,25 local (3) 77:16;81:24;146:4 located (3) 4:8;22:12;132:23 location (45) 43:12;71:12;86:21;	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2 Lot (31) 4:9;7:11;9:10;15:12; 17:22;19:11;30:5;39:5; 50:8;52:11;92:18,18, 19,20,23,25;93:20; 94:1,13;96:25;97:8,12; 109:20;111:7,25; 137:2,2,13;143:5; 151:19;164:25 lots (10)	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11, 11;31:13;36:15;43:7; 51:13;52:4;69:11,20; 96:8;97:3;98:14; 110:17;123:6;131:20; 155:20;157:2 map (1) 129:25 Mark (3) 5:4;75:15,25 marked (5)
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1) 53:16 Labor (2) 145:18;146:1 land (1) 24:8 landowner (1) 24:9 language (1) 74:10 large (4) 102:16;120:15;	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3) 9:5,6,7 less (6) 77:17,22;111:11; 134:14;136:8;156:5 letter (5) 6:19;22:6,9,9;23:11 level (19) 7:23;22:3;65:11; 70:17;88:19;97:13; 101:21,22;104:10; 106:16;110:7;119:19;	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6 loading (10) 116:13;117:15,18; 120:16;121:21;125:20, 22;126:1;132:23,25 local (3) 77:16;81:24;146:4 located (3) 4:8;22:12;132:23 location (45) 43:12;71:12;86:21; 104:16;105:18;106:15;	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2 Lot (31) 4:9;7:11;9:10;15:12; 17:22;19:11;30:5;39:5; 50:8;52:11;92:18,18, 19,20,23,25;93:20; 94:1,13;96:25;97:8,12; 109:20;111:7,25; 137:2,2,13;143:5; 151:19;164:25 lots (10) 54:11,12,13,15,19;	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11, 11;31:13;36:15;43:7; 51:13;52:4;69:11,20; 96:8;97:3;98:14; 110:17;123:6;131:20; 155:20;157:2 map (1) 129:25 Mark (3) 5:4;75:15,25 marked (5) 38:1;76:7;85:25;
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1) 53:16 Labor (2) 145:18;146:1 land (1) 24:8 landowner (1) 24:9 language (1) 74:10 large (4) 102:16;120:15; 125:20;166:20	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3) 9:5,6,7 less (6) 77:17,22;111:11; 134:14;136:8;156:5 letter (5) 6:19;22:6,9,9;23:11 level (19) 7:23;22:3;65:11; 70:17;88:19;97:13; 101:21,22;104:10; 106:16;110:7;119:19; 121:4,12,14;130:14;	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6 loading (10) 116:13;117:15,18; 120:16;121:21;125:20, 22;126:1;132:23,25 local (3) 77:16;81:24;146:4 located (3) 4:8;22:12;132:23 location (45) 43:12;71:12;86:21; 104:16;105:18;106:15; 110:17;119:19;121:13;	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2 Lot (31) 4:9;7:11;9:10;15:12; 17:22;19:11;30:5;39:5; 50:8;52:11;92:18,18, 19,20,23,25;93:20; 94:1,13;96:25;97:8,12; 109:20;111:7,25; 137:2,2,13;143:5; 151:19;164:25 lots (10) 54:11,12,13,15,19; 108:17;111:1;114:15;	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11, 11;31:13;36:15;43:7; 51:13;52:4;69:11,20; 96:8;97:3;98:14; 110:17;123:6;131:20; 155:20;157:2 map (1) 129:25 Mark (3) 5:4;75:15,25 marked (5) 38:1;76:7;85:25; 106:7;146:20
knows (2) 46:12,22 L label (1) 106:12 labeled (2) 82:21;89:21 labeling (2) 78:17;148:25 labels (1) 53:16 Labor (2) 145:18;146:1 land (1) 24:8 landowner (1) 24:9 language (1) 74:10 large (4) 102:16;120:15;	135:22 legal (9) 33:21;63:5;67:19,21, 21;72:2;80:14,15; 120:22 Leggett (1) 22:7 legislative (1) 77:12 length (1) 89:6 lengthy (3) 9:5,6,7 less (6) 77:17,22;111:11; 134:14;136:8;156:5 letter (5) 6:19;22:6,9,9;23:11 level (19) 7:23;22:3;65:11; 70:17;88:19;97:13; 101:21,22;104:10; 106:16;110:7;119:19;	16,23;104:1,2,5,12,24 line-of-sight-break (1) 104:8 links (3) 38:23;39:3,4 list (2) 39:17;98:22 listed (3) 78:19;107:11;149:8 little (7) 7:18;17:4;31:2;44:1; 47:23;53:15;66:6 loading (10) 116:13;117:15,18; 120:16;121:21;125:20, 22;126:1;132:23,25 local (3) 77:16;81:24;146:4 located (3) 4:8;22:12;132:23 location (45) 43:12;71:12;86:21; 104:16;105:18;106:15;	42:3,3;52:22;57:20; 70:10;72:24;83:20; 86:13;129:9;136:5; 139:11;150:15;154:13, 17,19 looks (5) 86:9,13;87:14;89:21; 112:3 loosey-goosey (1) 31:2 lost (1) 158:2 Lot (31) 4:9;7:11;9:10;15:12; 17:22;19:11;30:5;39:5; 50:8;52:11;92:18,18, 19,20,23,25;93:20; 94:1,13;96:25;97:8,12; 109:20;111:7,25; 137:2,2,13;143:5; 151:19;164:25 lots (10) 54:11,12,13,15,19;	135:1;153:24 management (6) 29:12,13;34:7,13; 35:9;48:15 maneuver (2) 117:3,5 maneuvering (1) 116:21 maneuvers (2) 116:13,18 many (20) 9:23;17:20;19:5,11, 11;31:13;36:15;43:7; 51:13;52:4;69:11,20; 96:8;97:3;98:14; 110:17;123:6;131:20; 155:20;157:2 map (1) 129:25 Mark (3) 5:4;75:15,25 marked (5) 38:1;76:7;85:25;

133:6,12,14 meaningful (1) 161:14,21;164:13,24 153:24 167:17 morning (7) Martin (1) 126:7 micrograms (7) modeled (18) 52:18;53:8,9,10,11; 4:19 means (12) 49:20:50:6:51:7: 5:3;6:6;68:19,20; Maryland (5) 4:20;27:11;47:4; 53:1;59:24,25;63:9 54:1,5,16;59:10,25; 113:10;125:2;128:4 4:9;30:16;31:22; 53:25;54:5;89:16;92:9; middle (4) 60:1,2;88:11;100:14; **most (5)** 75:20:76:4 106:14;116:18;138:16, 16:22;23:1;54:14; 107:5;108:20;114:9; 25:11;30:20,22;71:3; Maryland-National (1) 17:139:3 157:15 155:11 154:5 modeler (1) 34:24 measure (5) might (10) mostly (2) 74:14;79:23;108:22; 7:15;8:14;10:19; 87:9 42:4;94:10 Maryland's (3) 74:8;75:10,14 146:14;153:11 22:14;38:2;65:14; modeling (45) motor (8) master's (1) measured (8) 98:24;101:5;122:4; 50:7;51:20;55:6; 73:22,24;74:3,14; 100:4;103:9;109:18; 144:13 77:24;78:3,22,23 7:14 61:12;69:13,15;70:20; material (6) 115:3;120:23;128:20; mileage (1) 72:13,21;73:5;82:1; motorcycle (2) 7:2,8,11;30:5; 132:22;143:5 96:4 84:20,22;87:5;100:6,8, 95:9;112:14 164:25;165:1 measurement (2) miles (11) 17;103:4,8,19,19; Motorcycles (1) 96:6,8,18,19,22;97:3, materials (4) 121:4;154:10 106:17,19;107:17,20; 93:4 7,8,12;98:14,20 7:20;8:3;62:5; move (3) measurements (15) 108:8;109:15;110:10, 36:7;49:15;66:23 121:23 70:1;100:8;105:22; 24;111:1,3,20;112:20, **Mill (3)** 4:8;42:16;53:6 25;114:17;115:6,9; matter (10) 106:6,9,23;109:23,24; moved (4) 4:3;7:10,14;16:10; 114:14;142:21;143:22; million (26) 123:7;127:8,9;142:21; 30:7,8;136:19; 19:13;45:3;49:19; 153:9;155:5,7;156:6 42:7,7,8;44:8,13,14; 143:12,23;151:2,14 138:24 45:21,22,23,24;47:4,6, modifications (1) 56:12;76:1;102:13 measuring (2) moving (5) matters (8) 109:2;153:14 7,9,17,18,18,19;48:3,5, 87:22 56:14;94:10;96:6; 5:20,25;14:15,25; mediator (1) 8;49:2,3;152:5,6,10 modified (1) 97:1;98:3 16:20;26:10,13;95:19 26:4 mind (11) 6:10 MT (2) medium (3) 7:12;15:15;21:22,25; moment (4) 94:24;112:13 max (1) 92:17 95:16;114:24;125:21 34:9;51:18;52:10; 65:11;120:7;128:3; much (16) maximum (4) Medium-duty (4) 74:24;75:1;79:4;158:6 151:1 7:8;8:6,8;28:9; 70:17;111:16;120:3; 93:14;95:8;115:16; mine (5)Monday (4) 29:20;32:1;43:13; 121:5 116:6 28:18:130:1;131:2, 140:3,4;142:2,15 49:22:50:3;60:16;64:8; May (20) meet (1) 13,14 monitor (4) 75:2,3;123:6;125:2; 4:13.13.13:7:5.24: 26:3 minimum (1) 69:25:136:19: 166:16 19:16;24:11,25;43:11; meetings (1) 95:15 138:11.24 multiple (2) 46:9:52:14:78:1:84:13: 26:2 minor (2) monitored (1) 106:4:114:25 members (1) 26:16;124:1 91:6;122:18;126:19; 115:3 **must** (7) 143:8;155:6;162:3,5 165:7 monitoring (12) 15:5;16:7;29:2; minus (4) 42:6;44:5;45:20; 34:15;77:2;119:14; **Maybe** (18) mention (3) 11:4;69:25;70:19; 9:11;18:21;21:5; 8:14;33:8;159:9 47:8 73:2:108:3:109:14: 121:10 112:23;114:14;130:21; 22:7;26:3;30:13;35:4; minutes (6) mentioned (9) muster (1) 36:8:51:23:57:5:63:5; 9:25;33:6;42:24; 118:16;149:16,22; 133:4;135:5;144:24 158:14 67:4;80:9;95:15; 77:4:95:11:111:23: 150:7,11;163:19 monitors (3) myself (3) 103:22;125:8;155:21; 112:22;126:12;150:24 mitigating (1) 133:6;134:25;147:23 18:17;41:16;112:24 162:14 merits (1) 158:2 monoxide (1) mix (1) N mean (57) 22:25 59:23 102:13 Montgomery (7) 5:14;12:12;14:1; met (1) 70:21 Mobility (1) 32:2;35:24;71:13; 16:23,24,25;17:3;18:4, name (4) meter (12) 146:5 74:6;75:7,23;77:25 4:19;46:24,25; 14,16;20:22;21:14,14; 50:6;51:7;53:2; mode (1) 23:5;29:11;31:4;32:22; month (2) 107:23 34:20;35:22;39:9; 59:24;63:9;107:18; 8:22 162:17;167:3 National (1) 44:18;48:23;50:16; 114:19;130:1,17; **model (57)** more (48) 31:21 53:15;56:3;57:9;64:23; 136:11,12;148:7 73:10,19;81:9,22,25; 8:18;17:4;26:23; near (4) 82:2.9:84:17:87:10: 62:16,18;113:12; 69:24:71:15:72:25: meters (4) 28:9:45:11:49:22: 87:19;88:1;89:18;91:2; 7:19;133:10,11; 89:13,17;91:5,6,9,19; 53:20;55:12;59:19,20; 132:23 134:2 95:12;97:18,20;100:2; 69:22,23;70:4;80:19; 92:6;97:10;102:17; nearest (1) method (1) 101:4,9,12,15,18,19, 82:10;97:13,15,16,23, 103:10;106:13;107:19; 134:25 24;102:2,5,9;103:18, 24;98:1,11;102:18; 109:8;120:13;125:9, 44:2 necessarily (3) methodology (1) 18;105:5;106:14; 110:6,11;114:17; 24;128:18;132:17; 118:14;141:4,11 135:19;137:24;139:12; 72:2 107:24:108:1,1,5,12, 115:21,21;119:12; necessary (1) 150:23;151:6;155:20; Michael (1) 14,20;109:6;110:1,14; 120:11;124:14;127:8, 160:6 156:19:158:6,13; 5:5 111:24;113:13;114:6; 10;137:12;138:1,7,16; need (19) 162:19;164:10 Michele (12) 123:15;126:2,11; 139:5,7;143:21,25; 12:12;13:2;16:17; Meaning (1) 5:2;10:11,12;39:10; 128:15,22;144:20,21, 150:18;151:24;152:22; 19:17;32:18;36:9,15; 125:25 159:20;160:7,16,25; 23;146:10;151:2; 156:11;161:6,18; 53:15;67:18;83:7;85:3;

TEITHON OF COSTCO	WHOLESALE CORI O	KATION		
95:13;106:15;107:7;	115:22,25;116:15;	44:2,2,4;47:3,11;		10:15,17;11:6,9,19,20;
156:20;161:17;166:13;	117:12,21;118:6,7,8,9,	48:23;49:1	0	12:15;15:21;17:12,13,
167:1,9	16;119:4,9,16,20;	notations (1)	<u> </u>	17;18:20;19:1;23:15;
needed (4)	120:3,8,9,10,14;	129:19	oath (1)	26:16;28:15;32:18;
30:18;45:2;64:8;	121:12,13,25;122:2,2,	note (5)	40:10	36:14;41:8;43:1;48:5,
161:1	3,4,7,18,20,21,22;	53:15;54:21;55:5;	object (5)	8;49:5;51:5;52:13;
needs (3)	123:6,6,6,25;124:13,	99:16;162:14	16:2;43:5;72:1;	53:20;55:12;62:24;
25:22;63:5;107:2	21;125:13,15,19,22;	noted (5)	116:17;162:24	63:20;69:3;70:22;
neighborhood (15)	126:1,2,9,10;127:14;	46:4;49:5,7;137:21;	objected (2)	82:15;84:25,25;86:3,3,
100:8,11;101:8;	128:16,24;130:1,8,14,	148:16	6:10;43:9	15,19;87:9;90:1;92:5,
105:13,20,24;106:5; 114:20;150:10,14,22;	17,18,19,21;132:15,20, 22;133:2;134:24;	notes (2) 18:13;140:15	objection (12)	14;94:24;95:1,2,4,8,9,
153:13,13,19;154:11	135:16,23;136:7,11,12;	notice (10)	8:25;9:1;16:1,3;	9,9,16,16,16;96:3,3; 105:25;107:8;110:6;
neither (1)	137:22;138:15,17,23,	12:21;71:4;86:15;	43:19;141:7,14,20;	112:11,13,13,13,13;
23:5	24;140:23;141:3;	99:12;133:16;140:3,5,	163:13,15;165:16,21	113:8;114:23,24;
network (1)	142:20;143:9,13;	6,7,21	objections (2) 158:7,9	115:8;116:2;121:2,18;
121:4	144:18,20,21,23,24;	noticed (7)	objective (4)	123:18,18;125:4;
new (14)	145:1,4,8,9,12;146:10,	4:14,15;5:8;12:22;	40:25;62:18;87:19;	126:23;130:4;132:17;
6:20;20:7,24;30:23;	14;147:7,12,15,21,25;	13:23;14:6;49:18	111:22	140:15;142:22;144:9;
37:7,7;48:25;55:20;	148:7,8;149:15,20;	notification (1)	objects (1)	150:3;151:24;154:5;
68:3;71:2;160:5;	150:9,13,22,24;151:2;	15:6	121:23	155:11,12,15,17;
164:25;165:1;167:14	153:9,9,23;154:3,6,8,	notion (1)	obliquely (1)	157:17;160:22;162:1,
newly (3)	10,21,22;155:8,10	34:12	67:4	5;166:15,15,19;167:17
6:16;21:15,16	noise-dampening (1)	November (19)	observation (2)	one-hour (1)
next (9)	105:1	42:2;52:9;57:15;	33:1;40:22	92:17
4:14;12:13;49:15;	noises (3)	68:21,25;69:5;70:9;	obvious (1)	ones (5)
50:20;52:13;64:18;	117:18;124:2,7	81:8,12;84:23;99:23;	137:25	6:8;42:22;54:16;
82:14;86:14;127:1	noisier (2) 139:5,8	100:21;102:19,25;	obviously (5)	106:7;165:16 one's (2)
nice (1) 12:13	none (1)	103:2;115:20;129:9; 166:14,21	20:24;76:3;94:9;	90:3,3
night (1)	40:22	NOX (1)	156:20;161:19	one-third (1)
71:8	Nonetheless (1)	59:19	occurs (1)	31:10
nighttime (3)	31:2	number (33)	103:5 o'clock (1)	ongoing (2)
70:24;71:7;73:8	non-impact (1)	6:23;14:1;28:16;	159:3	125:23,24
nine (1)	144:24	37:1;42:11;47:21;49:3;	October (4)	online (1)
152:5	non-incremental (1)	57:25;69:23;70:22;	12:2,3,4;156:4	166:15
noise (264)	114:11	72:24;73:13;85:14;	off (10)	only (20)
35:9;68:21,24;69:4,	non-lawyer (1)	87:14;89:5;90:20;	12:10;16:23;18:21,	11:25;21:24;29:4,5;
13,15,16,25;70:1,17,	64:6	91:16;92:9;101:13,17;	23;74:18,25;88:15;	33:6,9;42:3,12,23;
18,18,20,23;71:3,13,	non-lawyer's (1)	102:6;112:2,16;113:5;	134:13;156:5;163:25	44:25;45:15;52:15,18,
20;72:2,9,10,10,11,21,	63:1	115:14,18,19;134:13;	offer (1)	23;59:22;122:6,19;
21;73:2,14,23,23;74:3,	non-linear (1)	139:12;142:12;152:3;	21:1	123:16;150:21;165:15
7,14,15,17;75:7,10,10,	102:1	153:16;166:18 numbered (1)	Office (2)	onto (1) 108:11
22,25;76:5,11;77:2,3, 17,24,25;78:3,15,21;	nonparties (1) 24:5	36:22	4:17;159:10	open (3)
79:5,6,6,15,18,23;80:5,	non-residential (7)	numbering (1)	official (4)	111:5;119:13;128:19
6;81:22,25;82:1,2,9,18,	71:1,17,20;72:11,19;	84:9	66:22;140:6,7,21	opened (4)
24;83:23,25;84:17,21,	77:2,7	numbers (44)	officials (1) 30:17	115:7,9;126:14;
22;87:10,20;88:13,19;	non-significance (2)	17:22,24,24;18:9,21;	off-loaded (1)	128:6
91:4,8,9;92:2,2;97:13,	63:11,14	42:6,8,18,19,21;47:5;	117:22	opening (3)
15,16,24,25;98:1;	nor (1)	49:25;50:11;51:2,3;	often (1)	117:18;121:22;
99:16,20,25;100:1,2,	23:5	52:2,22;55:16,25;58:3,	111:19	127:22
10;101:7,8,9,9,10,12,	normal (4)	20;59:12;62:15;73:6,7;	old (3)	opens (2)
14,15,16,22;102:5,15,	47:12;115:4;120:15;	86:14;87:11,13,15;	49:19,20,21	17:21;19:8
18;103:4,7,7,9,15,15;	125:2	96:3;97:5;100:18;	omitted (1)	operate (2)
104:7,10,23;105:8,9,	north (5)	110:16,19,21;111:8,9;	98:24	4:6;29:9
12,15;106:6,8,11,12,	37:13,19;133:20,23, 23	113:3;125:20;127:7;	once (12)	operation (7) 43:12;50:15;54:2;
16,18,19;107:4,15,18, 19;108:2,5,7,8,12,13,	northwest (3)	128:16;153:23,25; 154:2	23:4;26:19;33:6;	43:12;50:15;54:2; 70:2;115:4;117:23;
19,108.2,3,7,8,12,13, 14,22;109:1,1,14;	133:8;134:8,9	numerical (1)	45:11;56:3,5;58:22;	153:12
110:7,14,24;111:4,24;	Nos (2)	99:9	60:3;92:6;94:11;	operational (3)
110:7,14,24,111:4,24,	76:6;133:8	,,,,	124:17;135:5	116:5;128:19;137:11
114:10,12,13,18,19,23;	notation (7)		one (98)	operations (7)
	(,)		5:21;8:14,17;9:13;	

42:15;50:4;51:22;				
42.13,30.4,31.22,	22;39:22;42:25;43:17,	130:15,25;131:2,9,10,	40:8;41:7,17;56:13;	108:25;116:2,4,8;
70:24;72:25;94:2;	21;47:4;50:25;55:19,	13;132:2,8,11;133:20;	62:11;70:1;79:7;82:13;	123:18;125:21;146:9
109:12	19,22;56:11,17,17,18,	135:17;136:5;137:21;	88:3;95:12;110:15,17;	percent (10)
operative (3)	22,25;57:12;58:2,9;	138:23;144:11;146:4,	115:10;116:1;126:23;	31:12,12;69:23;70:4,
63:3,4:64:5	62:24;65:8;83:6;89:24;			
, ,		19,25;147:14,23;148:2,	139:12;142:3;149:19	5;137:12;152:16,17,20,
opinion (3)	90:22;94:14;98:25;	5,11;149:8;154:12,17,	particularly (4)	21
23:6;24:16;91:23	99:3;102:20;116:4;	19,21	27:18;32:3;89:13;	percentage (3)
opponents (1)	117:1;125:10,21;	pages (13)	90:18	126:7;136:6;152:12
140:10	129:14,19;140:10;	7:13;9:9;26:19;	particulate (4)	perfectly (1)
opportunities (1)	144:14;157:12;159:12,	36:22,24;37:2,3,5,8,24;	7:10,14;45:3;49:19	167:16
149:19	20;161:4	83:2;85:6;130:7	Particulates (2)	Perhaps (4)
opportunity (5)	outer (1)	pallets (1)	52:24;63:10	10:25;110:11;
62:20;144:4;150:19;	92:6	117:21	parties (11)	133:25;162:10
156:2,7	output (4)	PAMR (1)	4:22;5:21;15:6;16:7,	period (7)
opposed (2)	73:10;89:18;91:8;	146:18	11,12;23:14;24:1;29:8;	110:16;118:15;
16:5;118:7	101:4	paper (2)	160:17;164:4	122:7;148:21;153:14,
opposite (1)	outputs (1)	7:17;135:11	parts (3)	20;155:25
29:2	91:13	papers (3)	56:1;64:3;153:2	permissible (3)
opposition (5)	outside (3)	8:20;18:10;131:20	party (2)	16:18;70:17;117:9
6:10;8:5;62:19;	23:7;24:5,7	paradigm (1)	24:20;155:20	permit (2)
160:17;162:22	over (21)	48:13	pass (1)	119:14;121:11
optimistic (1)	8:17;12:22;14:6;	paragraph (6)	26:22	permitted (2)
125:16	30:11;31:1;57:5;69:25;	64:4,5;77:3;121:15;	pass-by (1)	92:5;124:13
oral (1)	92:5;110:16;114:8;	147:3;148:5	116:14	person (5)
60:21	118:15;122:7;123:18,	parameters (1)	past (3)	29:4;46:5;48:2;
order (10)	25;136:19;156:16,16,	15:19	24:7;135:5;136:11	119:14;121:10
23:10;24:8;49:25;	17;159:15,19;161:17	Parcel (10)	Pat (2)	personal (1)
62:15;99:3,9;114:7,8;	overall (2)	4:9;70:17;71:19,22,	5:6;20:5	129:18
116:13;136:23	14:11;122:2	25;79:6,6;92:14;	path (23)	perspective (3)
Ordinance (13)	overrule (2)	134:11;135:1	6:9,11;20:10,11,24;	63:1;110:3,8
4:5;32:12;35:25;	43:19;141:14	Pardon (1)	21:6,8,15,16,22;22:8,	pertains (1)
71:3,14,21;72:10,10;	overruled (1)	155:16	10,21;23:6,10,20;25:1,	89:14
73:23;74:7;77:25;	141:20	Park (3)	9,14,16,18;157:21,25	perusal (1)
78:22;114:10	overseen (1)	34:24;117:14;157:13		6:5
			patrons (2)	
ordinances (1)	112:25	parked (1)	17:21;19:7	petard (1)
77:17	overstatement (3)	151:11	peaceful (1)	35:15
Ordinarily (2)	112:1;152:24,25	parking (43)	76:16	petition (1)
137:25;156:1	overstepping (1)	17:20,22,22;18:18;	peak (7)	4:4
organic (2)	29:15	19:5,11;54:11,12,13,	72:23;73:17;113:10;	petitioner (1)
42:4;44:11	own (3)	15,19;92:18,18,19,20,	127:3,16;128:4,5	
orient (2)	28:18;35:15;62:20			4:6
37:16;76:9		20.23.25.25:93:20:		
		20,23,25,25;93:20; 94:1 13 21:95:23:	peak-hour (5)	photo (1)
	owner (1)	94:1,13,21;95:23;	peak-hour (5) 73:19;111:8;113:21;	photo (1) 10:7
orientation (1)	owner (1) 24:7	94:1,13,21;95:23; 96:25;97:8,12;98:13,	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22	photo (1) 10:7 photographs (1)
orientation (1) 134:19	owner (1) 24:7 OZAH (2)	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20;	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7)	photo (1) 10:7 photographs (1) 37:12
orientation (1) 134:19 oriented (1)	owner (1) 24:7	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25;	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10;	photo (1) 10:7 photographs (1) 37:12 phrase (1)
orientation (1) 134:19 oriented (1) 133:23	owner (1) 24:7 OZAH (2) 4:4,16	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12;	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12
orientation (1) 134:19 oriented (1) 133:23 original (3)	owner (1) 24:7 OZAH (2)	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5;	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1)	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1)
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14	owner (1) 24:7 OZAH (2) 4:4,16	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18
orientation (1) 134:19 oriented (1) 133:23 original (3)	owner (1) 24:7 OZAH (2) 4:4,16	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2)	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1)	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1)
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14	owner (1) 24:7 OZAH (2) 4:4,16	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1)	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3)	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2)	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2)	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1)
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1) 14:5 others (3)	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3) 43:17,22,24 page (84)	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2) 70:21;100:4 part (8)	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2) 70:23;71:4 people (15)	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1) 6:17 piece (2)
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1) 14:5 others (3) 9:23;15:22;52:15	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3) 43:17,22,24 page (84) 10:9;27:15;41:23;	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2) 70:21;100:4 part (8) 6:2;23:15;30:6;	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2) 70:23;71:4 people (15) 15:12;17:14;33:20;	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1) 6:17 piece (2) 56:4;74:21
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1) 14:5 others (3) 9:23;15:22;52:15 otherwise (1)	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3) 43:17,22,24 page (84) 10:9;27:15;41:23; 45:13;52:17;70:3,10;	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2) 70:21;100:4 part (8) 6:2;23:15;30:6; 32:25;74:14;119:16;	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2) 70:23;71:4 people (15) 15:12;17:14;33:20; 45:24;47:4;48:8;49:3;	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1) 6:17 piece (2) 56:4;74:21 place (6)
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1) 14:5 others (3) 9:23;15:22;52:15 otherwise (1) 121:22	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3) 43:17,22,24 page (84) 10:9;27:15;41:23; 45:13;52:17;70:3,10; 77:1;78:19;79:1;80:9;	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2) 70:21;100:4 part (8) 6:2;23:15;30:6; 32:25;74:14;119:16; 138:24;146:13	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2) 70:23;71:4 people (15) 15:12;17:14;33:20; 45:24;47:4;48:8;49:3; 54:4;80:2;112:25;	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1) 6:17 piece (2) 56:4;74:21 place (6) 22:13;38:19;104:18,
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1) 14:5 others (3) 9:23;15:22;52:15 otherwise (1) 121:22 ought (3)	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3) 43:17,22,24 page (84) 10:9;27:15;41:23; 45:13;52:17;70:3,10; 77:1;78:19;79:1;80:9; 81:9;83:21;84:1,4,25,	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2) 70:21;100:4 part (8) 6:2;23:15;30:6; 32:25;74:14;119:16; 138:24;146:13 participants (2)	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2) 70:23;71:4 people (15) 15:12;17:14;33:20; 45:24;47:4;48:8;49:3; 54:4;80:2;112:25; 125:1;132:20;138:9;	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1) 6:17 piece (2) 56:4;74:21 place (6) 22:13;38:19;104:18, 21;133:17;165:23
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1) 14:5 others (3) 9:23;15:22;52:15 otherwise (1) 121:22 ought (3) 23:18;92:7;167:15	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3) 43:17,22,24 page (84) 10:9;27:15;41:23; 45:13;52:17;70:3,10; 77:1;78:19;79:1;80:9; 81:9;83:21;84:1,4,25, 25;86:3,4,12,14,16,16,	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2) 70:21;100:4 part (8) 6:2;23:15;30:6; 32:25;74:14;119:16; 138:24;146:13 participants (2) 6:1,17	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2) 70:23;71:4 people (15) 15:12;17:14;33:20; 45:24;47:4;48:8;49:3; 54:4;80:2;112:25; 125:1;132:20;138:9; 144:14;156:2	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1) 6:17 piece (2) 56:4;74:21 place (6) 22:13;38:19;104:18, 21;133:17;165:23 placed (3)
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1) 14:5 others (3) 9:23;15:22;52:15 otherwise (1) 121:22 ought (3) 23:18;92:7;167:15 ours (1)	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3) 43:17,22,24 page (84) 10:9;27:15;41:23; 45:13;52:17;70:3,10; 77:1;78:19;79:1;80:9; 81:9;83:21;84:1,4,25, 25;86:3,4,12,14,16,16, 23;87:1,5,6,12;89:3,8,	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2) 70:21;100:4 part (8) 6:2;23:15;30:6; 32:25;74:14;119:16; 138:24;146:13 participants (2) 6:1,17 particle (2)	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2) 70:23;71:4 people (15) 15:12;17:14;33:20; 45:24;47:4;48:8;49:3; 54:4;80:2;112:25; 125:1;132:20;138:9; 144:14;156:2 per (34)	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1) 6:17 piece (2) 56:4;74:21 place (6) 22:13;38:19;104:18, 21;133:17;165:23 placed (3) 43:16;118:12;133:4
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1) 14:5 others (3) 9:23;15:22;52:15 otherwise (1) 121:22 ought (3) 23:18;92:7;167:15 ours (1) 53:18	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3) 43:17,22,24 page (84) 10:9;27:15;41:23; 45:13;52:17;70:3,10; 77:1;78:19;79:1;80:9; 81:9;83:21;84:1,4,25, 25;86:3,4,12,14,16,16, 23;87:1,5,6,12;89:3,8, 9;92:12;98:21;100:14;	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2) 70:21;100:4 part (8) 6:2;23:15;30:6; 32:25;74:14;119:16; 138:24;146:13 participants (2) 6:1,17 particle (2) 62:9,10	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2) 70:23;71:4 people (15) 15:12;17:14;33:20; 45:24;47:4;48:8;49:3; 54:4;80:2;112:25; 125:1;132:20;138:9; 144:14;156:2 per (34) 16:15;45:20,24;47:9;	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1) 6:17 piece (2) 56:4;74:21 place (6) 22:13;38:19;104:18, 21;133:17;165:23 placed (3) 43:16;118:12;133:4 plan (8)
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1) 14:5 others (3) 9:23;15:22;52:15 otherwise (1) 121:22 ought (3) 23:18;92:7;167:15 ours (1) 53:18 ourselves (1)	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3) 43:17,22,24 page (84) 10:9;27:15;41:23; 45:13;52:17;70:3,10; 77:1;78:19;79:1;80:9; 81:9;83:21;84:1,4,25, 25;86:3,4,12,14,16,16, 23;87:1,5,6,12;89:3,8, 9;92:12;98:21;100:14; 102:19,22,23,24;103:2,	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2) 70:21;100:4 part (8) 6:2;23:15;30:6; 32:25;74:14;119:16; 138:24;146:13 participants (2) 6:1,17 particle (2) 62:9,10 particles (2)	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2) 70:23;71:4 people (15) 15:12;17:14;33:20; 45:24;47:4;48:8;49:3; 54:4;80:2;112:25; 125:1;132:20;138:9; 144:14;156:2 per (34) 16:15;45:20,24;47:9; 49:2,3;50:6;51:7,14,	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1) 6:17 piece (2) 56:4;74:21 place (6) 22:13;38:19;104:18, 21;133:17;165:23 placed (3) 43:16;118:12;133:4 plan (8) 7:5;20:15;21:7,20;
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1) 14:5 others (3) 9:23;15:22;52:15 otherwise (1) 121:22 ought (3) 23:18;92:7;167:15 ours (1) 53:18 ourselves (1) 58:5	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3) 43:17,22,24 page (84) 10:9;27:15;41:23; 45:13;52:17;70:3,10; 77:1;78:19;79:1;80:9; 81:9;83:21;84:1,4,25, 25;86:3,4,12,14,16,16, 23;87:1,5,6,12;89:3,8, 9;92:12;98:21;100:14; 102:19,22,23,24;103:2, 3;105:6;110:21;112:3,	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2) 70:21;100:4 part (8) 6:2;23:15;30:6; 32:25;74:14;119:16; 138:24;146:13 participants (2) 6:1,17 particle (2) 62:9,10 particles (2) 7:17;8:5	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2) 70:23;71:4 people (15) 15:12;17:14;33:20; 45:24;47:4;48:8;49:3; 54:4;80:2;112:25; 125:1;132:20;138:9; 144:14;156:2 per (34) 16:15;45:20,24;47:9; 49:2,3;50:6;51:7,14, 15;53:1;59:24;62:15;	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1) 6:17 piece (2) 56:4;74:21 place (6) 22:13;38:19;104:18, 21;133:17;165:23 placed (3) 43:16;118:12;133:4 plan (8) 7:5;20:15;21:7,20; 23:7,20;31:17;32:18
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1) 14:5 others (3) 9:23;15:22;52:15 otherwise (1) 121:22 ought (3) 23:18;92:7;167:15 ours (1) 53:18 ourselves (1) 58:5 out (48)	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3) 43:17,22,24 page (84) 10:9;27:15;41:23; 45:13;52:17;70:3,10; 77:1;78:19;79:1;80:9; 81:9;83:21;84:1,4,25, 25;86:3,4,12,14,16,16, 23;87:1,5,6,12;89:3,8, 9;92:12;98:21;100:14; 102:19,22,23,24;103:2, 3;105:6;110:21;112:3, 5;113:7,8,9;114:22;	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2) 70:21;100:4 part (8) 6:2;23:15;30:6; 32:25;74:14;119:16; 138:24;146:13 participants (2) 6:1,17 particle (2) 62:9,10 particles (2)	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2) 70:23;71:4 people (15) 15:12;17:14;33:20; 45:24;47:4;48:8;49:3; 54:4;80:2;112:25; 125:1;132:20;138:9; 144:14;156:2 per (34) 16:15;45:20,24;47:9; 49:2,3;50:6;51:7,14, 15;53:1;59:24;62:15; 63:9;93:10,10,20;94:1,	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1) 6:17 piece (2) 56:4;74:21 place (6) 22:13;38:19;104:18, 21;133:17;165:23 placed (3) 43:16;118:12;133:4 plan (8) 7:5;20:15;21:7,20; 23:7,20;31:17;32:18 planning (8)
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1) 14:5 others (3) 9:23;15:22;52:15 otherwise (1) 121:22 ought (3) 23:18;92:7;167:15 ours (1) 53:18 ourselves (1) 58:5	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3) 43:17,22,24 page (84) 10:9;27:15;41:23; 45:13;52:17;70:3,10; 77:1;78:19;79:1;80:9; 81:9;83:21;84:1,4,25, 25;86:3,4,12,14,16,16, 23;87:1,5,6,12;89:3,8, 9;92:12;98:21;100:14; 102:19,22,23,24;103:2, 3;105:6;110:21;112:3,	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2) 70:21;100:4 part (8) 6:2;23:15;30:6; 32:25;74:14;119:16; 138:24;146:13 participants (2) 6:1,17 particle (2) 62:9,10 particles (2) 7:17;8:5	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2) 70:23;71:4 people (15) 15:12;17:14;33:20; 45:24;47:4;48:8;49:3; 54:4;80:2;112:25; 125:1;132:20;138:9; 144:14;156:2 per (34) 16:15;45:20,24;47:9; 49:2,3;50:6;51:7,14, 15;53:1;59:24;62:15;	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1) 6:17 piece (2) 56:4;74:21 place (6) 22:13;38:19;104:18, 21;133:17;165:23 placed (3) 43:16;118:12;133:4 plan (8) 7:5;20:15;21:7,20; 23:7,20;31:17;32:18
orientation (1) 134:19 oriented (1) 133:23 original (3) 41:20;56:10;123:14 originally (1) 14:5 others (3) 9:23;15:22;52:15 otherwise (1) 121:22 ought (3) 23:18;92:7;167:15 ours (1) 53:18 ourselves (1) 58:5 out (48)	owner (1) 24:7 OZAH (2) 4:4,16 P pad (3) 43:17,22,24 page (84) 10:9;27:15;41:23; 45:13;52:17;70:3,10; 77:1;78:19;79:1;80:9; 81:9;83:21;84:1,4,25, 25;86:3,4,12,14,16,16, 23;87:1,5,6,12;89:3,8, 9;92:12;98:21;100:14; 102:19,22,23,24;103:2, 3;105:6;110:21;112:3, 5;113:7,8,9;114:22;	94:1,13,21;95:23; 96:25;97:8,12;98:13, 20;108:17;109:20; 110:25;111:7,25; 114:15;115:11,12; 137:2,2,13;143:5; 151:19,22 Parks (2) 70:21;100:4 part (8) 6:2;23:15;30:6; 32:25;74:14;119:16; 138:24;146:13 participants (2) 6:1,17 particle (2) 62:9,10 particles (2) 7:17;8:5 particular (25)	peak-hour (5) 73:19;111:8;113:21; 127:7;153:22 pedestrian (7) 6:9;20:10,11;23:10; 24:25;25:9;157:21 pedestrians (1) 22:3 penalty (2) 70:23;71:4 people (15) 15:12;17:14;33:20; 45:24;47:4;48:8;49:3; 54:4;80:2;112:25; 125:1;132:20;138:9; 144:14;156:2 per (34) 16:15;45:20,24;47:9; 49:2,3;50:6;51:7,14, 15;53:1;59:24;62:15; 63:9;93:10,10,20;94:1,	photo (1) 10:7 photographs (1) 37:12 phrase (1) 17:12 phrasing (1) 16:18 physical (1) 6:17 piece (2) 56:4;74:21 place (6) 22:13;38:19;104:18, 21;133:17;165:23 placed (3) 43:16;118:12;133:4 plan (8) 7:5;20:15;21:7,20; 23:7,20;31:17;32:18 planning (8)

	1		I	
plans (3)	35:24;36:2;76:15;	presentation (4)	8:25;16:23	155:6,10
6:17;20:9;24:2	146:5	26:20;27:12;60:22,	processing (1)	proposal (4)
plants (1)	policymaker (3)	24	101:3	6:20;22:15,15,23
31:2	32:10;35:22,23	presentations (1)	produce (4)	proposed (15)
playing (1)	pollutants (2)	40:16	7:10;56:4,5;61:17	6:9,16;7:10;20:24;
165:7	33:5,13	presented (4)	produced (7)	21:15,16;22:12;33:11;
Plaza (1)	pollution (3)	42:20;66:14,14;	54:1;105:17;122:3,5,	43:24;54:2;88:19;
4:9	28:9;29:18,19	100:3	20,21,23	105:14;122:3;157:25;
please (13)	pool (8)	president (1)	producer (4)	158:1
4:23;17:19;34:5;	42:8;44:15;47:19,21;	159:18	33:5,10,12;80:5	protect (3)
35:2;37:1;39:20;81:9;	50:22;59:7;60:1;72:19	Presumably (7)	producers (1)	26:6;76:16;80:2
84:18;96:16;129:8;	portion (4)	51:23;54:3;86:24;	80:4	protections (1)
140:16;142:10;152:15	6:14;76:3;138:12,13	92:13;102:17;121:25;	produces (1)	24:9
pleased (1)	portions (1)	157:13	82:3	protocol (1)
33:19	16:5			144:22
		presume (4)	producing (1)	
plenty (1)	position (11)	16:6;43:1,10;114:23	40:7	prove (1)
64:16	21:6;23:19;24:25;	presuming (1)	products (2)	46:14
plot (2)	26:4;28:10,25;35:4;	43:6	117:21;126:8	provide (11)
135:20;137:25	63:9;105:18;120:22;	presumption (1)	professor (1)	22:3;23:24;31:4;
plus (6)	162:2	145:21	30:22	60:11;62:13,18,19;
54:5;94:3,3,4;122:7;	positions (2)	pretty (3)	proffer (8)	63:8;101:1;102:3;
143:23	5:8;37:23	14:2;85:4;138:14	12:1;15:25;116:20,	142:10
PM (12)	possibility (1)	prevention (2)	23;126:6;145:17,18;	provided (11)
7:5;49:19;54:14;	120:24	27:7;31:5	151:12	40:19;60:25;61:8,9;
55:6,9;136:18,18;	possible (5)	previous (2)	proffered (4)	62:7,12;63:16;76:15;
148:8,25;149:1;159:6;	6:24;8:8;9:2,4;15:20	60:6;126:12	11:16,21,23;158:22	77:17;115:19;142:25
167:22	potency (1)	previously (1)	progress (1)	provides (1)
PMs (1)	48:20	40:2	25:19	63:13
55:9	potential (1)	primary (1)	project (1)	providing (4)
point (66)	157:4	133:2	82:18	58:20;62:9,25;64:25
15:17;17:3;18:6;	potentially (2)	principle (1)	projected (4)	provisions (2)
22:1;27:13;28:15,20;	104:24;137:19	97:23	113:10;128:16;	74:11;75:25
31:20;32:24;36:4;39:5;	power (3)	printed (1)	139:17;141:5	proximity (2)
43:21;44:10;47:6,7;	30:14,15;31:1	89:24	projections (1)	105:14;138:14
55:10;62:13;63:6,8,13;	PowerPoint (1)	printout (2)	142:19	PSD (5)
69:16;80:12;81:5;	60:24	90:12;135:19	projector (3)	27:9,17;28:21;31:9;
86:20;91:8;93:7;97:17;	precipitation (3)	prior (6)	74:18,20,25	32:20
98:22;99:2,11;104:19;	145:7;150:20,25	49:11;63:17;64:21;	projects (3)	public (5)
110:15,17;115:2,2;	precisely (1)	109:2;127:21,22	31:24,25;112:24	4:2;6:2;76:16;77:12;
120:7,23;128:18;	17:20	private (2)	prominent (2)	78:22
120.7,23,128.18,	predicted (1)	78:3,23	119:15;121:11	pull (5)
135:24;136:3,3,3;				50:25;117:1,1,6;
	111:3	privilege (1)	promise (2)	
137:14;151:13;152:5;	preferably (1)	166:9	22:6;23:12	125:5
153:8,17;154:14,23,25;	15:6	probably (7)	promised (1)	pulling (1)
155:22;156:14,15,18;	prejudiced (2)	14:5;16:17;32:2;	22:9	58:2
157:12;158:13,17,20;	161:11,12	85:13;91:18,19;167:15	prompted (1)	pumped (1)
161:15;162:2,23;	prejudicial (2)	probative (3)	77:15	152:22
165:22;166:9	160:17;163:11	143:15,18,19	promulgation (1)	pumping (1)
pointed (1)	preliminary (7)	problem (3)	64:5	54:4
27:17	5:19,25;14:14,25;	18:17;131:17,21	proof (2)	pumps (2)
pointing (1)	26:10,12;153:2	problematic (2)	32:4;158:18	4:7;54:5
37:19	premise (1)	21:25;33:3	proper (1)	pure (1)
points (22)	72:13	problems (1)	34:13	153:25
14:21;18:4;26:14;	premised (1)	135:12	properly (2)	purpose (1)
33:23;59:16;93:8,24;	73:13	procedural (3)	10:4;122:15	142:19
98:21,23;99:3;105:3,	prepare (1)	14:15;15:3;155:19	properties (6)	purposes (5)
16,18,22;106:1,2,19,	156:16	proceed (8)	71:24;72:17,18;	49:9;66:22;110:8,11;
22;134:22;150:16;	prepared (3)	5:24;121:18;159:12,	73:11;104:6;105:4	143:3
153:16,21	14:19,20;161:22	24;162:20;163:4;	property (16)	pursuant (1)
policies (1)	preparing (2)	165:22;166:7	43:17;59:8;76:17;	4:5
32:1	15:13;18:7	proceeding (2)	78:4;119:20;121:13;	pushed (1)
policy (9)	present (1)	35:2;162:24	134:10,11;135:1;	162:16
31:8,21;32:8,10,14;	57:9	process (2)	137:5;154:7,10,15,15;	put (17)
			,, ., ., .,	• ` ′

PETITION OF COSTCO	WHOLESALE CORPOR	KATION		
19.19.20.22.22.2	62.25.66.14			(1)
18:18;29:22;33:2;	62:25;66:14	realized (1)	recommendation (1)	reflection (1)
51:6;55:18,19,19,22;	-	166:16	4:21	161:10
58:9;60:8;69:25;	R	really (43)	re-computing (1)	reflective (1)
109:25;116:22;122:15;		8:6;27:11,21;28:8;	57:1	105:23
133:6;138:9;160:5	radius (2)	29:4,20,23;33:17;34:1;	reconstruct (1)	refrain (1)
putting (1)	59:9;116:24	47:6;58:8;60:10,11;	59:17	96:16
132:21	rain (4)	64:23;65:7;79:19;	record (38)	refresh (1)
	145:9,11;149:17,18	80:12;89:24;95:3,5;	4:23;6:2,7;7:25;	127:20
Q	raise (2)	98:20;110:14;116:19;	13:16;17:6,19;19:18;	refrigeration (1)
	155:15;165:16	124:2;134:18,20;	27:24;29:22,23;30:5;	126:9
	,			
quaint (1)	raised (13)	135:6;137:14;138:3;	36:21;40:13;46:12,16,	regard (2)
78:16	8:5;9:23,23;14:17;	141:4;143:7,11;	22;47:14;50:11;52:3;	27:18;122:20
qualification (2)	25:5;33:25;43:22;50:2;	148:22;157:17;158:6,	57:17;58:24;65:25;	Regarding (5)
49:4,4	59:16;61:3;62:9;	16;161:10;162:21,21;	77:23;79:12,13;81:2;	9:19;20:9;23:10,12;
qualified (1)	157:13,14	164:6;165:12,16,21	116:20,21,24;118:12;	60:21
120:14	ran (2)	reason (6)	126:21;146:4;148:8;	regardless (3)
qualify (2)	55:13;73:19	25:13;41:11;99:3;	149:7;159:9,17;163:25	22:15,16;23:12
28:23;141:13	rate (1)	149:16;155:21;156:5	recorded (4)	regular (1)
qualities (1)	94:6	reasonable (2)	148:7,12;149:15;	47:9
105:2	rather (6)	17:10;29:16	150:9	regulate (3)
quality (7)	49:1;79:17;97:5;	reasons (2)	rectangle (2)	29:25;78:3;122:4
29:21;31:7;64:8;	139:19;143:5;165:6	30:25;164:14	107:11;133:16	
				regulated (1)
111:20;127:9,13;	rating (3)	Rebecca (1)	red (1)	121:5
158:15	118:23,24;121:6	7:13	149:8	regulating (3)
quantification (1)	ratings (3)	rebut (1)	reduce (1)	121:3,25;122:1
61:11	118:22;119:3,3	156:7	104:7	regulation (7)
que (5)	raw (1)	recall (16)	reduces (1)	34:12,16;64:9;74:4;
94:3;95:5,7,7,18	148:24	15:8;18:24;33:2;	103:7	119:16,21;121:3
Q-U-E (1)	reached (4)	38:14;69:1,8;79:21;	reduction (3)	regulations (12)
92:14	11:13;64:21;72:6;	82:5;98:25;101:6,17,	82:22,23;103:22	33:9;35:1,20;36:1;
questionable (1)	73:6	25;127:23;132:25;	refer (4)	74:4;75:14;79:18;
23:9	reaching (1)	139:11;152:3	9:3;67:3;127:15;	118:11,13;119:2,7;
queue (13)	72:5	receive (3)	129:7	122:17
92:17;93:11;95:6,6,	read (12)	11:7;38:11;166:17	reference (13)	regulatory (1)
17;96:5;99:7;107:12,	13:22;33:6,20;45:9;	received (2)	47:7;62:12,19;63:8,	76:10
16;108:8,10;109:16;	63:2;64:13;71:15;	106:20;153:3	13;67:4,5;69:16;81:1;	relate (1)
110:25	79:12;85:4;112:10;	receivers (8)	90:6;91:24;101:16;	130:8
queued (3)	120:6;128:11	82:20;84:1,1;105:8;	137:14	related (1)
54:4,5;111:15	readily (1)	106:8,12,18;108:12	referenced (1)	16:19
queues (7)	60:12	receiving (3)	118:7	relates (2)
60:21;92:14,15;	reading (10)	7:6;119:19;121:13	referred (3)	54:1;122:6
134:6,8;141:5,8	65:18;78:1;85:3;	receptor (1)	13:18;41:3;116:4	relating (1)
queuing (7)	87:17;95:7;105:25;	103:15	referring (41)	76:5
50:12;61:6;94:5;	119:22;130:19;149:12;	receptors (3)	13:19;33:4;40:15;	relation (1)
107:12,14;111:16;	150:12	59:14;91:9;108:11	51:12;57:14;60:20;	54:1
133:11	readings (40)	recess (2)	61:22;62:14;63:22;	relationship (2)
quick (2)	99:17,20;100:1,10,	36:19;159:6	64:1,19,23;66:25;70:8,	101:18;102:6
		,		
6:5;14:20	14;101:7,8;105:9,12,	recipient (1)	9;71:15;74:3,5,6,8;	relative (1)
quickly (1)	12,15;107:18;114:19;	80:6	80:9;86:2;91:3;92:1;	62:8
60:19	128:16,24;129:2;	recited (1)	102:22;103:16;110:20;	relatively (2)
quiet (2)	130:1,8;132:5,10,12;	22:6	112:5,9;113:16;	103:4;105:13
158:8,10	134:16,25;136:14;	recognize (5)	117:23,24;129:7;	relaxed (1)
quite (4)	137:22;140:13,17;	17:10;23:11;70:25;	130:2,21;135:24;	17:5
62:17;111:11;138:8,	141:3;144:10,18;	146:8;163:1	147:17,17,19;148:13,	relevant (2)
11	145:2,8,12,21;147:15,	recognized (1)	14	7:21;42:5
quo (1)	25;148:3,21;149:21;	101:5	refers (2)	reliable (2)
109:2	150:9	recollect (1)	79:22;90:18	143:25;153:16
quote (5)	ready (2)	70:13	reflect (5)	reliably (1)
64:2;102:21;137:22;	36:6;68:1	recollection (12)	21:20;127:6;141:4,	153:22
		13:13;14:8,13;73:21;	11;154:2	
146:22,25	real (1)			relocation (1)
quote/unquote (1)	76:2	79:20;82:7;99:23;	reflected (4)	69:5
48:15	realize (1)	100:20;118:21;127:21;	21:6;23:20;24:1;	rely (5)
quotes (2)	125:1	133:13;141:23	127:16	28:16;29:10,12;
	0	i .	i .	i e

4:12;40:3;68:17

TETITION OF COSTC
143:21;147:10
relying (1)
74:16
remain (2)
64:5;111:4
remaining (1)
12:16
remains (1)
160:18
remand (1)
64:3
remember (11)
13:22,25;18:15;
52:12;69:23;71:11,17;
81:11;133:1;134:14;
145:16
remind (2)
40:9;68:12
removed (1)
21:13
repeat (4)
19:1,4;43:8;117:10
repercussions (1)
162:15
rephrase (1)
163:15
report (64)
4:21;7:4,12;12:24;
13:7,10,19,20,21;
14:11;42:2;47:9;51:1;
52:7,9;56:10;57:16;
64:18;68:8,21,25;69:2;
70:3,7,10,11;74:1;
79:15;80:12;81:8,12;
84:10,11,22,23;85:24;
88:25;99:16,24;
100:22;101:2;102:19;
103:2;105:6,17;106:5;
113:4,6;115:20;
126:16,25;127:6,14;
129:10,22;133:9;
135:18;137:21;138:23; 142:7;153:2;156:20;
166:14,21
reporter (2)
46:12,22
reports (2)
34:21;37:1
represent (2)
93:9;97:14
representation (1)
98:19
representative (6)
59:12;105:19;
106:10;141:24;150:17;
153:22
represents (3)
42:12,13,14
reproduced (1)
48:25
request (7)
6:15;36:25;37:11,18;
41:2;58:25;60:24

ND ADMINISTRATIVE I WHOLESALE CORPO	H
requested (2)	
63:17;64:25	
requests (1) 64:4	
require (1)	
23:17 required (2)	
82:13;95:15	
requirement (1) 16:4	
requirements (1)	
145:24 rerun (1)	
128:15	
reserve (1) 68:3	
residential (18)	
71:1,6,9,23,25;72:12, 17,18;77:1,3,8,8;103:6;	
134:11,17;137:5,17;	
143:6	
residents (1) 32:2	
resolved (1)	
28:12 resource (3)	
156:9;158:5,16	
resources (1) 158:15	
respect (3)	
119:4,6;125:19 respond (1)	
18:3	
responded (1) 6:20	
responding (2) 33:1;66:17	
responds (1)	
9:22	
response (7) 5:23;6:25;43:21;	
98:18;100:13;125:11;	
158:24 responsibility (1)	
29:6	
rest (3) 33:7;114:16;159:20	
restaurants (1)	
53:23 restrictive (1)	
77:22	
result (3) 7:11;48:10;157:4	
resulting (1)	
116:15 results (10)	
59:11;73:12;81:10;	
82:22;100:17;108:5,6; 135:16,20;148:3	
resume (3)	
4:14;68:1;161:18	
resumed (3)	

```
retail (1)
  114:25
retrievable (1)
  102:9
review (3)
  62:20;146:5,5
reviewed (1)
  40:20
revised (4)
  20:5,8;37:24;166:1
revises (1)
  156:20
revising (1)
  69:1
revision (1)
  21:3
revisions (2)
  26:21;68:24
right (177)
  5:13,15,19;8:22;
  10:22,25;11:24;12:9,
  21;14:9,22;15:18;17:8;
  18:2,11,20;19:3;20:2,
  16,20;21:10,17;22:24,
  25;24:22;25:6;26:9;
  27:3,5;28:7;30:19;
  34:3,14,22;35:16,18;
  36:3,6,7,11,20;37:23;
  39:1,2,11,21;43:14;
  44:1;45:4,12,18;46:3,
  11;47:2,13,20;48:21;
  49:14:51:12:52:10.25:
  53:9:54:9,18:55:1,10;
  56:24;57:2,19,22;
  58:16,22;59:1,1,1;
  60:7;61:19,19;62:3,6,
  22;64:12;65:6,17;
  66:11,15,17,19;67:1,
  10,22,25;68:3,15;
  73:13;74:22;75:8,12;
  76:3.18:77:10:78:20.
  24;83:15,20;87:6;
  89:10,22;90:11;91:14,
  22;94:22;96:4,23;
  99:10,12;104:21;
  107:3,6;108:7;109:5;
  117:6;121:7,16,24;
  122:9,14,15,25;123:9,
  11;124:3;125:10,12,
  17;129:24;130:10;
  131:15,23;134:5;
  136:11;137:2;139:2;
  144:8;146:11,18;
  148:17;150:2;153:7;
  154:16,23,25;155:2,13;
  158:4,12;159:1,5,8,24,
  25;161:3,24;162:11,19,
  23,25;163:20;164:1,1,
  12;165:17;167:1,5,8,
  17,20
ring (37)
  6:13;21:24;22:4,18;
  42:17;56:25;92:22;
```

104:23;108:14,24,25; 109:6,7,12,13,16; 112:3;113:12;114:7,7, 8,15,23,25;115:4,12; 126:15,22;127:17,22; 151:3,6,16,22 risk (11) 42:5,25;44:10,11,19; 45:14,19;48:9,13,15,15 Risk-Gas (2) 42:23;44:25 risks (6) 42:14;43:4;44:15,24; 49:2,2 **Road (38)** 4:8;6:13;21:24;22:4, 18;42:17;56:25;92:22; 94:17,20;95:23; 104:23;108:14,24,25; 109:6,7,12,13,17; 112:3;113:12;114:7,7, 8,15,23,25;115:4,13; 126:15,22;127:17,22; 151:3,6,16,22 roads (2) 78:22,23 roadway (1) 50:25 roadways (13) 40:25;42:10,24; 44:18,25;53:3,12;54:6; 56:22;57:1;59:21,23; 82:10 room (5) 4:16,16;62:24;64:16; 65:15 ROSENFELD (265) 5:2,2,11;9:1,5,8,11; 10:8,13,17,21,23;11:1, 9,11,14,16,19;20:2,4, 11,13,16,23;21:5,11, 16,18;22:1,11;23:19, 24;24:18,23;25:3,7,16; 26:9,11;36:11;38:10, 14,18;39:2,7,11,13; 47:21;52:4;54:8,11,16, 21;55:1,12,15,23,25; 56:8;58:18,24;68:15, 16,18;70:9,15;72:8,20; 74:6,12,20,23;75:5,9, 13,17,20;76:9,14,19, 22,25;77:9,11,15,20, 23;78:6,8,11,14,18,21; 79:1,3,14,17;80:3,7,11, 21,24;81:1,4,7,16,18; 83:1,4,7,10,16,20,24; 84:13,15;85:7,9,11,13, 17,19,22;86:5;87:4; 88:17,21,24;89:2,11, 15;90:2,5,8,13,19; 91:11,15;92:1,8,11; 93:19;96:15,24;98:12;

94:17,20;95:23;

99:15;102:12,24; 103:1;107:10;110:13, 21;111:2,18;113:20,23, 25;114:1;116:23; 117:4,6,11;118:3,6,9, 13,20,25;119:4,24; 121:1,9;123:1,3,5,10, 12,24;124:5,14,17,20, 24;125:4,8,15,18; 126:18;127:20,25; 128:9,13,14;129:12,15, 18,22,23;130:7,11,12; 131:3,8,15,18,20,22; 132:1,4,7;135:9,13,15; 140:2,7,11,12,20,22, 25;141:2,15,16,19; 142:1,18,24;143:10,19; 144:9,13,17;146:3,8, 13,22,23;147:8,9; 149:7,11,13;150:1,3,5; 151:8,12,17,24;152:2, 6,9,18;153:5,18;154:5, 17,21;155:2,4,9;159:9; 160:3;163:11;165:22 Rosenfeld's (2) 68:1;163:5 rotating (2) 164:5,10 rough (1) 62:13 route (1) 114:25 row (3) 42:22;56:20;95:8 rows (11) 45:16;56:11,13,16, 19;57:5,5,11,25;58:2; 59:17 **rule** (2) 16:3,14 ruled (1) 30:11 **rules (11)** 15:4,9;16:14;27:14, 17,18;28:22,23,25; 30:17;31:3 ruling (3) 63:1,3;64:3 run (8) 34:21;36:13;86:2; 87:10;89:6,12,13,17 running (1) 97:22 runoff (1) 34:13 **Runs (4)** 84:17;87:13,14,21 rural (8) 55:16,25;56:16;58:5, 20;59:4,9,12

rush-hour (1)

138:25

	screen (1)	17:23;26:3	132:19;133:7,16;	Similarly (2)
S	88:8	September (11)	134:22;136:13	31:20;103:3
	se (2)	11:20,21;12:8;	shows (12)	simply (9)
S-2863 (1)	16:15;146:9	100:11;114:19;130:18,	56:6;82:20,21,23;	56:12;57:11;58:1;
4:4	search (2)	18;145:12;148:8;	83:25;105:18;116:25;	106:14;114:11;116:14,
safe (2)	18:18,19	150:9,21	124:11;129:25;148:3;	25;154:2,21
29:2;34:2	second (33)	series (4)	154:6;155:10	simulation (1)
safety (4)	4:16;15:19;16:16;	56:11;61:15;91:1;	shrink (1)	154:3
22:3;24:25;29:24;	17:11;19:1,10,17;	98:21 serves (1)	45:7 shut (2)	Sioutas (1) 7:16
30:1	28:20;30:2;45:5;51:5; 52:17;63:20;75:9;	114:25	119:13;120:17	sit (3)
sales (10)	76:25;78:25;88:18;	session (1)	shutting (1)	90:17,22;100:24
133:6,17;134:10;	92:24;104:13,25;	4:14	117:19	site (11)
139:9,17,23;141:22,25; 142:4,16	113:8;121:2,16;	set (8)	side (4)	4:8;6:22;23:7,20;
same (28)	124:23;125:4;130:4;	29:14;32:11;77:2;	82:21;133:7;135:22;	24:2;43:6,16,17,23,25;
9:17;25:24;35:3;	139:14;140:15;147:3;	116:13;121:14;144:9;	156:12	135:4
37:18;44:7;52:6,18;	148:5;155:12;160:22;	167:14,15	sides (1)	sitting (1)
56:16,18;57:7;58:3;	166:19	sets (1)	87:25	27:3
65:4;77:4;86:10,13,13;	seconds (1)	29:13	Sierra (5)	situation (8)
87:16,21;94:23;98:18,	163:21	setup (1)	14:18;26:14;27:7;	6:22;29:7;35:12,12;
21;102:15;104:10;	secretive (2) 65:22;158:7	143:24	33:3;63:22 sight (1)	59:20;153:10,11;157:5
108:17;111:21;135:11;	section (19)	seven (2) 44:5;65:5	137:9	six (5) 11:23;36:16;47:8;
165:23,23	33:9;54:14;60:20;	several (4)	sign (1)	86:19;167:15
sashay (1) 32:8	62:5,6,7,12,23;63:21;	117:1;118:16;	41:13	Sixteen (2)
satisfy (2)	64:18,24,24,25;66:24;	124:14;132:17	signal (1)	152:17,20
21:3;23:2	67:2,6,8;75:24;76:22	shall (1)	91:4	Sixty-five (2)
Saturday (5)	sections (2)	159:2	significance (2)	71:8;94:19
127:2,16;139:13,23;	60:15;74:8	shared (1)	63:10,14	size (1)
141:6	Seeing (10)	6:15	significant (10)	7:17
saw (2)	5:24;22:17;47:24;	sheer (1)	27:7,9,10,14,17,18;	slamming (4)
6:5;11:18	86:20,23;110:7;111:8;	156:18	31:5;63:7;65:11;136:6	118:14;119:13,13;
saying (38)	112:7;138:2;139:11 seem (2)	sheet (1) 156:25	significantly (4) 124:20;125:22;	120:17 slash (1)
7:21,22;8:3;21:18;	143:23,25	SHEVEIKO (11)	124.20,123.22, 128:21;154:5	93:9
23:22,25;24:14,24;	seems (2)	159:15,18,18;	SIL (5)	Slide (8)
27:16;29:23;32:6,20; 35:14;48:3;51:21,25;	32:7;139:4	160:10,12;163:3,7,21;	27:10;28:21;62:24;	10:13;26:20;60:6,8,
56:5;58:1;61:10,12;	segment (2)	164:2,3,12	64:7;67:20	20,22,23;61:9
63:2,21,23;67:4,5;	22:18;93:3	shopping (1)	SILs (3)	small (3)
89:17;90:17,22;98:5;	selected (3)	132:21	63:2;64:3,5	28:9;123:19;124:8
101:24;111:10;128:7;	105:12;106:2;153:14	short (3)	Silver (1)	smart (1)
138:6,6;142:3;162:10;	self-explanatory (1)	118:16;119:9;153:20	4:8	14:4
163:10,12	52:14	shot (2)	SILVERMAN (70)	snapshot (1)
scale (1)	sell (2)	17:19;158:17	4:24,24;14:16,17,24; 27:5,6,23;28:2,5,8;	110:15 software (2)
101:23	70:4;137:11 semi (1)	show (16) 41:1,22,25;51:1;	29:17;30:3,12,19;	82:2,3
scenario (1)	102:16	60:22;62:14;84:16;	32:13,16,24;33:14,16,	sold (6)
111:12 scheme (1)	send (3)	88:8;100:5;103:17;	19,25;36:14;39:12;	69:12,21,22;110:6;
76:10	12:20;39:7,8	116:21;126:7;136:5;	43:5;51:4,12,13,16;	137:19;152:4
school (7)	sending (1)	148:6,11,13	53:20,21,22;66:5,13,	solely (1)
42:7;44:14;45:20;	39:10	showed (6)	16,19;67:14;68:2,7,11,	107:16
47:19;50:22;59:7,25	sense (3)	40:23;47:9,10;73:12;	13;74:17;75:2;88:13,	solid (2)
science (1)	25:23;101:23;117:8	151:20,21	16;155:15,17,19;156:9,	105:1,4
32:1	sensible (2)	showing (20)	11;158:5,10,13;	somebody (2)
scientific (5)	15:10,13	42:6;45:13;56:7;	160:20;162:8;163:4,7,	16:1;139:21
44:4;47:3,11;48:23;	sent (5)	59:20,23;60:23;86:12;	13,16,18;164:11,19,20,	somehow (2)
49:1	38:6,7,8,22,22 sentence (1)	95:2,2;109:20;135:19, 19;137:11,12;148:19,	23,24;165:4,11,14,17, 19	16:13;55:1 sometime (1)
scientists (1)	17:12	19,137.11,12,148.19, 19,20,20;153:2;154:9	Silverman's (2)	20:19
52:15	separate (4)	shown (14)	26:13;162:13	sometimes (2)
scope (1) 21:7	45:15,15;107:1;	40:23;50:6;54:18;	similar (5)	33:21,21
scores (1)	147:15	59:11;84:1;110:25;	42:1;56:15;69:17;	somewhat (2)
48:20	separately (2)	126:6,25;128:2;	110:4;121:23	25:22;155:24
10.20	- '			

	01.10	**************************************	15.4.11.20.21	27.2
somewhere (2) 14:9;51:8	91:18 speculating (1)	stated (7) 48:13;49:1;59:5;	15:4,11,20,21 stipulating (1)	37:3 suggest (6)
sorry (20)	91:7	64:11;111:19;124:1;	15:4	11:22;12:4;28:20;
13:24;45:5;57:19;	speed (6)	152:23	stipulation (5)	48:22;143:13;162:5
70:7;83:11;86:8;92:23;	94:6;97:16,22,24;	statement (6)	15:23;16:7,10,12,15	suggested (1)
110:21;114:3;117:10;	98:6;111:24	24:18;29:23;43:8;	stipulations (1)	144:6
130:15;140:16,24;	sphere (1)	79:21;139:6;163:10	15:9	suggesting (3)
141:19;147:6,20;	35:11	states (2)	Stop (7)	32:16,17;33:11
149:4,24;150:1;160:24	spikes (1)	64:2;121:10	4:24;30:2;31:20;	suggestion (2)
sort (2)	136:9	station (70)	34:5;117:7;144:4;	26:13;77:24
62:24;120:11	spoken (3)	4:7;7:10;19:8;22:12,	162:14	suggestions (1)
sound (4)	5:22;65:11;160:16	16,19,20,20,23;33:12;	stopped (4)	60:5
77:1;82:13;91:1;	Sporting (1)	42:3,9,12,14,18,23;	97:17;98:2,4;159:9	Sullivan (30)
121:4	73:3	43:1,13,16,24;44:25;	store (2)	9:19;10:1,3,7;22:7;
Sounds (1)	spots (1)	45:14;50:3,5,5,11,12;	17:21;22:21	26:19;27:12;36:8;
134:5	105:12	52:18,23;54:2,2,18,20;	stores (1)	39:23;40:5,10,14,14;
source (13)	spreadsheet (3)	59:6,22;62:11;63:11;	115:1	49:5;59:3;64:19;68:19;
91:8;103:13,15;	61:8;100:19,21	69:6,14,16,17,21;70:4;	stories (1)	76:20;81:19;83:11,22;
104:10;107:5,12,16;	Spring (1)	72:25;73:4;88:19;	104:9	85:23;89:3;123:20;
108:8;119:20;121:13;	4:8	92:17;103:10;105:14;	stormwater (6)	132:8;144:18;147:10;
133:3;138:25;143:25	squeaky (1)	109:4,11,16,19,21;	29:11,13,19;34:7,13;	160:9;162:9;167:8
sources (14)	98:10	110:3;111:5;116:16;	35:9	Sullivan's (6)
42:15;50:10;54:15;	stack (1)	122:3,8,23;124:1,12;	straightforward (1)	7:2;8:15;81:12;
100:9;106:16;108:1,	18:10	132:16,18;133:5;	59:19	88:25;92:8;129:22
11,19,21;109:1;123:7;	staff (19)	137:1,19;141:5;	strategy (1)	summarizes (2)
126:4;132:15;137:1	6:11,19,21;11:3;	142:13;152:4	48:16	82:17;83:22
south (5)	20:19;25:20,24;26:1,2;	statistically (1)	strength (2)	summary (2)
37:13;71:25;72:17;	34:11,15,21;74:13;	153:20	91:4;101:16	153:17,18
133:21;134:20	79:14,15,19,22;100:4;	statistics (1)	strictly (2)	summer (1)
southeast (4)	157:13	127:21	63:7;110:8	99:20
133:8,25;134:21;	staff's (1)	status (1)	stringent (1)	Sunday (2)
135:6 southern (4)	20:12 stand (5)	109:2 statute (2)	77:18	139:24;141:6
6:13;21:24;133:25;	44:3;53:16;65:8;	76:15;77:15	strong (2) 145:3;155:21	supplement (2) 22:14;41:21
138:13	66:1;81:21	stay (2)	studies (3)	supplemental (7)
space (1)	standard (9)	8:12;67:18	9:24;82:9;147:7	7:2;8:15;9:18;62:5;
18:19	31:12,12;49:20;	stays (1)	study (9)	64:20;69:2;126:19
spaces (3)	63:12;77:6,7,8,8;81:25	17:9	70:16,18;84:8;97:14;	supplied (1)
17:20;19:5,11	standards (24)	steadier (1)	126:15;146:9;147:21;	7:23
speaking (4)	29:11,13,15,21;	138:25	150:22,24	supply (1)
35:20;46:13,22;	55:13;58:20;65:12;	steal (1)	stuff (1)	167:6
74:17	71:10;76:5;77:4;78:15;	83:14	7:6	support (1)
special (16)	79:5;80:14,15;81:4,23,	step (3)	subheadings (1)	6:23
4:5;23:3,4,7,12,16,	24;88:20;107:17,19;	160:20;161:5,16	93:3	supported (1)
20;24:2,5,7;25:10;	118:6;144:19,21,23	Sterling (39)	subject (2)	24:6
92:15;107:13;113:12;	standing (1)	69:14,15,21,22;70:4;	4:7;77:24	supporting (2)
115:1;166:9	94:10	99:17;100:5;103:4;	subjective (1)	7:2;64:20
specific (9)	stands (3)	107:18;109:23,24,24;	120:11	supports (1)
15:9,16;36:4;54:22;	49:9;89:7;90:20	110:2;128:24;131:23,	submit (3)	164:18
57:11;74:10;107:4;	start (6)	24;132:3,4,5,10,16,24;	20:15;78:2;146:4	suppose (2)
113:1;119:21	14:15;36:7;69:12;	133:1,9,17;134:16;	submits (2)	21:3;98:9
specifically (9)	130:6,16;149:2	135:5,17;139:10;	37:1,1	supposed (3)
33:10;42:17;64:1;	starting (2)	141:3,23;142:13,23;	submitted (3)	8:21;91:2;122:16
73:4;89:14;95:3,6;	91:7;132:8	143:4,7,8;144:4;152:4,	65:22;68:9,25	sure (53)
106:17;117:25	starts (4)	24	subpoena (2)	5:9,13;7:20;8:2;9:15,
specified (3)	86:3,4;132:1;144:11	stick (1)	30:14,15	18;14:2;16:18;18:4,13;
106:5;136:2,4	state (23)	67:19	substantially (1)	20:25;32:23;33:2;40:1,
specify (2)	29:1,12,23;30:13;	still (15)	22:19	1;45:5,9,9;49:18;52:3;
17:22;60:4	34:1;36:1;65:8;75:25;	6:18;21:2,21,25;	substantive (1)	54:23;55:21;65:2,3;
speculate (5)	77:11,18,22;78:2,21;	22:2;34:2;36:9;40:10;	6:3	72:6;74:15;75:17;
89:20;95:15;139:13,	79:8;80:16,18;81:2;	45:9;63:4;147:17;	substitute (1)	79:25;80:22,24;81:5,
15,19	102:20;143:14;146:15;	156:3;157:24,25;158:1	36:23	13,14;83:5;98:5;
speculated (1)	159:16;161:9;164:19	stipulate (4)	substituting (1)	105:21,24;109:22;

-
115.72.116.10.140.11.
115:23;116:18;140:11;
142:11,17;143:3,3,6,
18;152:1,8;159:4;
162:7;163:23;165:2
surprise (2)
139:22,25
surrounding (1)
115:1
suspect (1)
24:11
suspense (2)
124:10,22
sustain (1)
165:20
sustainable (1)
153:20
switch (3)
10:5,7;37:22
switched (1)
5:8
sworn (1)
40:2
system (3)
35:9;82:1;84:9
T
table (11)

```
table (11)
  41:17;53:16;54:14;
  56:10;57:12,15,23;
  59:18;82:17,21;84:7
tables (5)
  40:23;41:1,9;47:10;
  50:25
tactical (1)
  164:14
talk (5)
  12:11;29:18,20;
  46:23;124:23
talked (5)
  105:8;159:15,19;
  161:6.21
talking (22)
  9:16;16:20;17:1;
  20:7;25:24;35:12;
  44:13;65:4;70:24;
  74:11;81:13;90:20;
  96:1;100:10;103:23;
  116:1;117:25;118:11;
  144:4;149:25;157:20;
  164:10
talks (2)
  120:2,3
tanks (2)
  12:23;13:13
team(2)
  165:6,10
technical (13)
  5:11;6:11,19,21;
  25:20,24;26:1,2;34:21;
  63:6;67:19,20;74:13
techniques (1)
  32:19
```

```
telling (1)
  162:16
Ten (3)
                           t
  116:6;149:22;150:7
tend (1)
  124:2
                           t
tenor (1)
  28:17
tentative (1)
  6:18
                           t
tentatively (1)
  6:10
                           t
tenth (1)
  48:2
term (1)
  86:16
terminates (1)
  21:15
terms (20)
  8:11;18:20;47:5;
  48:22;49:2;50:2,15,19;
  59:25;92:2;95:14;
  100:6;103:18;106:18;
                           t]
  121:5;123:20;127:9;
  153:25;158:16;162:15
                           t
terrain (3)
  103:12,24;137:9
                           t
territory (1)
  30:23
                           t
testified (13)
  12:23;14:7;18:24;
  19:15;58:4;64:21;
  76:20:83:22:99:1;
  123:15;137:7;141:7;
  142:18
testify (3)
                           t
  26:19;120:18;139:21
testifying (2)
  66:6.9
testimony (19)
  7:2;9:19;12:22;14:6;
                           ti
  15:5;18:8;28:16,17;
  31:16;32:17;36:5;
  40:21;43:15;69:4;92:9;
  123:20;126:12;139:22;
  151:13
Thanks (1)
  144:16
                           t
that'll (1)
  57:9
therefore (2)
  12:3;16:6
                           to
thesis (1)
  7:14
                           t
thinkers (1)
                           t
  52:15
thinking (3)
  39:14;130:25;157:21
                           t
third (7)
```

19:1,12,17;24:20;

30:19;31:11;103:2

Thirteen (2)

152:5,16

Thirty (1)	
97:8 hough (5)	
7:24;8:21;30:20;	
120:13;162:15	
hought (10)	
18:9;19:16;39:16;	1
66:25;67:4;78:7;79:10;	
88:12;131:25;150:1 housand (1)	
62:16	1
hree (28)	
14:20;17:14;21:24;	
22:25;31:13;33:23;	
34:2;59:13;75:6,6;	
86:19;94:14;96:11,12, 18,22;99:8;103:21;	
104:9;129:2,4;132:12;	,
134:25;147:15,23;	
148:6;150:15;164:6	1
hree-foot (4)	
6:11;22:8,10,21	1
hree-kilometer (1) 59:9	١,
hreshold (1)	
63:10	1
hroughout (2)	
27:12;125:25	
hroughput (1)	
94:2 Γhursday (6)	
4:15;12:14;159:22;	
161:17;165:23;167:21	
Thus (1)	
123:11	
imes (6)	
44:5;45:20;63:11; 136:13;148:16;149:8	
Fitle (2)	1
75:24;76:3	
itled (2)	1
81:9;84:17	
ΓMA (2) 107:20,25	
ΓNM (8)	1
81:9,21,25;84:17;	
107:24;108:1,12,20	1
oday (10)	
4:14;5:22;9:2;14:19;	1
16:20;49:9;90:17,23; 100:24;164:8	
oes (1)	1
27:1	
ogether (3)	1
26:3;109:23;167:11	
old (2) 139:22;160:7	
omorrow (2)	
165:25;167:5	
one (2)	1

```
100:11;105:9,11,12,22;
  106:9.23:114:19:
  128:5;129:2;130:17;
  132:12:136:14:140:13.
  17;141:3;143:22;
  145:12;147:25
top (7)
  18:22,24;45:13;
  89:10,11;133:20;
  134:13
total (22)
  50:7;52:18;53:8,10,
  11,25;54:5;57:6;59:24;
  60:1,1;94:13;112:2,4;
  113:21;114:6,6;
  125:14;127:4;149:14;
  150:8,13
Totaled (1)
  53:9
totals (1)
  128:2
tractor-trailer (1)
  115:24
tractor-trailers (2)
  116:11;126:8
traffic (48)
  22:18;72:23,24;
  73:15,19;79:23;81:22;
  82:9;87:21;96:18;97:1;
  100:1;101:9;102:5;
  107:21,23;108:8,14,24,
  25:109:13:110:14:
  112:20,20;113:7,8,22;
  114:7,9,15,15;126:15,
  19,21;137:1;141:4;
  145:20,22,25;146:9,14;
  147:7,8,11;151:2;
  153:15,23,23
transcript (2)
  18:18;27:15
translate (1)
  48:14
translates (1)
  138:20
transmitted (1)
  72:11
transpired (1)
  159:14
transportation (4)
  50:9;145:19,20;
  146:5
traveling (3)
  42:24;94:6;108:24
tree (3)
  134:19;135:3;137:10
triangle (1)
  108:11
trip (1)
  75:3
trips (1)
  127:4
truck (15)
  93:13,13;95:8,9,16,
```

```
16;96:3;112:13,13,13;
  114:24,24;116:24;
  122:5;136:10
trucks (45)
  50:14,14,16,17,24;
  51:2,13,15,18,19,22,23,
  25;52:2;53:2,3,12;
  87:14;93:4,4;94:24,24;
  95:1,4;102:16,16,17;
  112:12;115:14;117:3,
  14,22;123:17,17;
  125:21,21;126:13;
  151:3,5,6,9,10,15,18,23
truck's (1)
  126:10
true (5)
  28:20,24;29:3;94:23;
  140:8
try (13)
  7:22;8:2,7;10:4;
  18:17,20;26:6,6;27:6;
  52:12;88:7;102:10;
  161:5
trying (21)
  23:1;25:8;39:6;
  58:14;62:12;65:22,23;
  66:23;72:12;83:14;
  88:12,15;120:6,21;
  122:4,13,16;123:5;
  133:5;145:10;161:4
Tucker's (1)
  13:19
Tuesday (2)
  145:17;150:9
turn (7)
  26:13;39:22;86:14;
  88:5,6,15:105:6
turning (1)
  116:24
turns (1)
  125:21
two (21)
  12:2;13:23;15:2;
  31:13;38:23;85:1;86:9,
  10,19;96:10,22;104:9;
  107:1;118:21;125:7;
  126:22;134:22;135:3;
  139:16;163:19;166:14
Two-and-a-half (2)
  96:13,14
two-level (1)
  104:11
type (2)
  33:4;69:17
typical (7)
  117:18;141:24,24;
  142:3,4,6;150:17
typically (3)
  31:9;39:9;82:9
           U
```

119:15;121:12

73:18;99:16,20;

took (22)

ultimately (2)

			T	T
20.25.21.1		74:4,14;78:22,23;	21;105:1,2,4,5	142:20,21,22;143:13,
20:25;21:1	upper (1)			
ultrafine (2)	142:5	86:12;93:8,10,10,20,	wants (3)	22,23;147:18;152:10;
7:17;8:4	urban (3)	23,25;94:11;95:17,19;	55:19;56:4;141:13	154:11
unclear (1)	55:13;59:4,13	96:1,6;97:15;101:13,	warehouse (30)	where's (3)
15:17	use (11)	17;102:6,14;108:16;	54:19;73:3,16;109:3;	130:1;146:22,25
under (30)	31:10;48:23;49:24;	110:17;111:23;112:2,	115:7,9,15;116:12;	Whereupon (3)
21:11;28:23;33:9;	60:3;63:6;82:16;99:25;	4,7,17;113:5,11,13;	117:14,19;118:1,2,4;	36:19;159:6;167:22
40:10;52:23;54:21;	101:8;103:19;117:12;	114:17;115:10,17,17,	122:5,11,20,22;126:8,	whisper (2)
55:13;63:11;71:20;	144:22	21;127:4,17;128:4;	13,14;127:23;128:6,	65:7,25
77:11,16;78:1,14;84:1;	used (21)	142:12;151:21	19;132:22;138:12,13;	whispered (1)
87:13,14;91:22;92:12;	48:15;55:23,25;	vehicular (3)	151:7,8;153:12;154:1	65:9
93:2,3,7,8;94:3;98:13;	59:13,17;60:4,21;72:5;	79:6;101:12;146:14	Washington (2)	white (1)
111:3;136:6;144:19;	82:9,10,12;101:10,18,	Veirs (3)	7:4;68:8	133:16
147:1;148:5;149:2	25;102:5;107:24;	4:8;42:16;53:6	waste (1)	whole (6)
underground (1)	111:19;144:24;152:3;	verify (1)	15:12	28:17;45:8;56:11;
12:23	153:1,3	89:13	way (24)	62:18;91:1;167:14
underrepresented (2)	useful (2)	version (7)	15:10,13;16:2;17:12;	Wholesale (1)
124:21;153:25	31:4;126:3	41:20;50:1,20;52:1;	18:20;31:18;32:9,18;	4:3
understandable (1)	uses (3)	60:11;84:10,11	40:9;54:24,24;55:18;	Whoops (1)
60:13	51:18,18;82:15	versus (15)	56:9;78:16;85:16;	130:1
understood (6)	using (10)	14:18;22:25;27:7;	89:23;96:4;104:6;	who's (3)
8:20;17:17;38:5;	32:19;48:12;55:15;	44:13,14;50:4;59:4,24,	122:17;134:24;138:5;	5:21;46:12,22
73:16;123:19;160:13	56:20;57:4;58:5,20;	25;60:2;63:10,14;	142:22;159:24;161:13	wide (6)
unfortunately (2)	74:19,20;76:10	71:16,16;93:14	ways (2)	6:11,14;21:15,24;
33:5;36:22	usual (1)	view (7)	70:23;73:12	22:8,10
unit (3)	39:17	22:2;29:2;63:6;79:7;	Wednesday (2)	wider (1)
60:4;126:9;137:11	usually (5)	80:15;118:18;134:21	140:21;142:15	25:14
units (2)	14:16;18:17,19;	violate (1)	week (5)	wiggle (1)
51:6;60:4	30:16;79:22	29:14	13:23;20:18,19;	138:1
University (1)	30.10,75.22	violation (4)	142:4;145:15	wind (3)
42:16	\mathbf{v}	16:14;72:9;118:15,	weekday (1)	37:13;145:1,3
	•			
			112.10	(1)
unless (3)	. (4)	20	113:10	winter (1)
10:18;53:18;92:4	vacant (1)	Virginia (3)	weight (2)	99:21
10:18;53:18;92:4 unloading (2)	43:7	Virginia (3) 40:15;69:14;128:25	weight (2) 30:5,10	99:21 wise (1)
10:18;53:18;92:4		Virginia (3)	weight (2)	99:21
10:18;53:18;92:4 unloading (2)	43:7	Virginia (3) 40:15;69:14;128:25	weight (2) 30:5,10	99:21 wise (1)
10:18;53:18;92:4 unloading (2) 121:21;122:5	43:7 vacate (1) 64:2	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14	weight (2) 30:5,10 weighting (1) 116:3	99:21 wise (1) 31:14 wishes (2)
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6	43:7 vacate (1) 64:2 vacuum (1)	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1)	99:21 wise (1) 31:14 wishes (2) 5:22;162:20
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1)	43:7 vacate (1) 64:2 vacuum (1) 29:10	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1)
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1)	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2)	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1)	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12)
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2)	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3)	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16;
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2)	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8;
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13)	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3)	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13;
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1)	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13;	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23;	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1)	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24)
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1)	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13;	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31)	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13;	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1;
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10;	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23;	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14)	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23;
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11;	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13;	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2,
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11;	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1)	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8,	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11;
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22;	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25;	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5;
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20,	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6)	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7,
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20, 24;64:15;75:18;84:6;	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6) 137:23,23;138:2,4,7,	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20 waiting (2)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16 what's (17)	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7, 18,22
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20, 24;64:15;75:18;84:6; 88:8;94:10;112:22;	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6) 137:23,23;138:2,4,7, 16	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20 waiting (2) 20:12;38:25	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16 what's (17) 7:24;18:5;21:12,14;	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7, 18,22 witness (131)
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20, 24;64:15;75:18;84:6; 88:8;94:10;112:22; 128:3;133:24;162:1;	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6) 137:23,23;138:2,4,7, 16 various (6)	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20 waiting (2) 20:12;38:25 walk (2)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16 what's (17) 7:24;18:5;21:12,14; 42:1;43:6;46:25;52:16;	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7, 18,22 witness (131) 5:21;15:5;40:2,11,
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20, 24;64:15;75:18;84:6; 88:8;94:10;112:22;	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6) 137:23,23;138:2,4,7, 16	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20 waiting (2) 20:12;38:25	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16 what's (17) 7:24;18:5;21:12,14;	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7, 18,22 witness (131)
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20, 24;64:15;75:18;84:6; 88:8;94:10;112:22; 128:3;133:24;162:1;	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6) 137:23,23;138:2,4,7, 16 various (6)	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20 waiting (2) 20:12;38:25 walk (2)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16 what's (17) 7:24;18:5;21:12,14; 42:1;43:6;46:25;52:16;	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7, 18,22 witness (131) 5:21;15:5;40:2,11,
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20, 24;64:15;75:18;84:6; 88:8;94:10;112:22; 128:3;133:24;162:1; 165:5;167:9,15 update (2)	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6) 137:23,23;138:2,4,7, 16 various (6) 5:25;9:24;28:21; 42:9;126:22;164:14	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20 waiting (2) 20:12;38:25 walk (2) 41:10,21 walked (1)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16 what's (17) 7:24;18:5;21:12,14; 42:1;43:6;46:25;52:16; 86:10;93:12;95:6; 110:25;121:5;124:25;	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7, 18,22 witness (131) 5:21;15:5;40:2,11, 13;41:14;43:10,18; 44:4,7,10,20,22;45:9,
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20, 24;64:15;75:18;84:6; 88:8;94:10;112:22; 128:3;133:24;162:1; 165:5;167:9,15 update (2) 69:4;127:6	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6) 137:23,23;138:2,4,7, 16 various (6) 5:25;9:24;28:21; 42:9;126:22;164:14 vary (1)	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20 waiting (2) 20:12;38:25 walk (2) 41:10,21 walked (1) 120:16	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16 what's (17) 7:24;18:5;21:12,14; 42:1;43:6;46:25;52:16; 86:10;93:12;95:6; 110:25;121:5;124:25; 125:2;139:9;142:18	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7, 18,22 witness (131) 5:21;15:5;40:2,11, 13;41:14;43:10,18; 44:4,7,10,20,22;45:9, 17,21,24;46:1,6;47:5,
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20, 24;64:15;75:18;84:6; 88:8;94:10;112:22; 128:3;133:24;162:1; 165:5;167:9,15 update (2) 69:4;127:6 updated (3)	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6) 137:23,23;138:2,4,7, 16 various (6) 5:25;9:24;28:21; 42:9;126:22;164:14 vary (1) 35:19	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20 waiting (2) 20:12;38:25 walk (2) 41:10,21 walked (1) 120:16 walking (1)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16 what's (17) 7:24;18:5;21:12,14; 42:1;43:6;46:25;52:16; 86:10;93:12;95:6; 110:25;121:5;124:25; 125:2;139:9;142:18 Wheaton (30)	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7, 18,22 witness (131) 5:21;15:5;40:2,11, 13;41:14;43:10,18; 44:4,7,10,20,22;45:9, 17,21,24;46:1,6;47:5, 14,17,23;48:4,7,12,18,
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20, 24;64:15;75:18;84:6; 88:8;94:10;112:22; 128:3;133:24;162:1; 165:5;167:9,15 update (2) 69:4;127:6 updated (3) 49:24;127:12,14	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6) 137:23,23;138:2,4,7, 16 various (6) 5:25;9:24;28:21; 42:9;126:22;164:14 vary (1) 35:19 vehicle (5)	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20 waiting (2) 20:12;38:25 walk (2) 41:10,21 walked (1) 120:16 walking (1) 22:4	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16 what's (17) 7:24;18:5;21:12,14; 42:1;43:6;46:25;52:16; 86:10;93:12;95:6; 110:25;121:5;124:25; 125:2;139:9;142:18 Wheaton (30) 4:9,10;70:5;100:7;	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7, 18,22 witness (131) 5:21;15:5;40:2,11, 13;41:14;43:10,18; 44:4,7,10,20,22;45:9, 17,21,24;46:1,6;47:5, 14,17,23;48:4,7,12,18, 20;49:6,13,16;50:17,
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20, 24;64:15;75:18;84:6; 88:8;94:10;112:22; 128:3;133:24;162:1; 165:5;167:9,15 update (2) 69:4;127:6 updated (3) 49:24;127:12,14 upon (10)	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6) 137:23,23;138:2,4,7, 16 various (6) 5:25;9:24;28:21; 42:9;126:22;164:14 vary (1) 35:19 vehicle (5) 77:24;78:3;93:14,15;	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20 waiting (2) 20:12;38:25 walk (2) 41:10,21 walked (1) 120:16 walking (1) 22:4 wall (17)	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16 what's (17) 7:24;18:5;21:12,14; 42:1;43:6;46:25;52:16; 86:10;93:12;95:6; 110:25;121:5;124:25; 125:2;139:9;142:18 Wheaton (30) 4:9,10;70:5;100:7; 103:6;130:2,5,6,9;	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7, 18,22 witness (131) 5:21;15:5;40:2,11, 13;41:14;43:10,18; 44:4,7,10,20,22;45:9, 17,21,24;46:1,6;47:5, 14,17,23;48:4,7,12,18, 20;49:6,13,16;50:17, 19;51:10,15,21;52:6,9,
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20, 24;64:15;75:18;84:6; 88:8;94:10;112:22; 128:3;133:24;162:1; 165:5;167:9,15 update (2) 69:4;127:6 updated (3) 49:24;127:12,14 upon (10) 71:1;72:14,23;73:15;	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6) 137:23,23;138:2,4,7, 16 various (6) 5:25;9:24;28:21; 42:9;126:22;164:14 vary (1) 35:19 vehicle (5) 77:24;78:3;93:14,15; 119:4	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20 waiting (2) 20:12;38:25 walk (2) 41:10,21 walked (1) 120:16 walking (1) 22:4 wall (17) 73:11;82:23,25;	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16 what's (17) 7:24;18:5;21:12,14; 42:1;43:6;46:25;52:16; 86:10;93:12;95:6; 110:25;121:5;124:25; 125:2;139:9;142:18 Wheaton (30) 4:9,10;70:5;100:7; 103:6;130:2,5,6,9; 131:25;132:3;134:10,	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7, 18,22 witness (131) 5:21;15:5;40:2,11, 13;41:14;43:10,18; 44:4,7,10,20,22;45:9, 17,21,24;46:1,6;47:5, 14,17,23;48:4,7,12,18, 20;49:6,13,16;50:17, 19;51:10,15,21;52:6,9, 21;53:1,6,9,13,19,24;
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20, 24;64:15;75:18;84:6; 88:8;94:10;112:22; 128:3;133:24;162:1; 165:5;167:9,15 update (2) 69:4;127:6 updated (3) 49:24;127:12,14 upon (10) 71:1;72:14,23;73:15; 100:7;101:16;108:12;	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6) 137:23,23;138:2,4,7, 16 various (6) 5:25;9:24;28:21; 42:9;126:22;164:14 vary (1) 35:19 vehicle (5) 77:24;78:3;93:14,15; 119:4 vehicles (45)	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20 waiting (2) 20:12;38:25 walk (2) 41:10,21 walked (1) 120:16 walking (1) 22:4 wall (17) 73:11;82:23,25; 86:24;87:5,6,20;	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16 what's (17) 7:24;18:5;21:12,14; 42:1;43:6;46:25;52:16; 86:10;93:12;95:6; 110:25;121:5;124:25; 125:2;139:9;142:18 Wheaton (30) 4:9,10;70:5;100:7; 103:6;130:2,5,6,9; 131:25;132:3;134:10, 17;135:1,4;137:5,8,12,	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7, 18,22 witness (131) 5:21;15:5;40:2,11, 13;41:14;43:10,18; 44:4,7,10,20,22;45:9, 17,21,24;46:1,6;47:5, 14,17,23;48:4,7,12,18, 20;49:6,13,16;50:17, 19;51:10,15,21;52:6,9, 21;53:1,6,9,13,19,24; 54:7,13,17,23;55:14,
10:18;53:18;92:4 unloading (2) 121:21;122:5 unnumbered (1) 37:6 unobstructed (1) 134:21 unregulated (1) 30:23 unreliable (2) 145:22;146:1 unusual (1) 155:24 up (31) 5:22;10:4,5,10; 18:19;25:22;27:11; 29:13,14;31:10;32:11; 36:7;37:19;46:22; 56:13;58:2,22;62:20, 24;64:15;75:18;84:6; 88:8;94:10;112:22; 128:3;133:24;162:1; 165:5;167:9,15 update (2) 69:4;127:6 updated (3) 49:24;127:12,14 upon (10) 71:1;72:14,23;73:15;	43:7 vacate (1) 64:2 vacuum (1) 29:10 valid (1) 157:8 value (2) 100:5;116:4 values (13) 42:5;49:21;59:13; 100:6;105:19,23; 107:15;108:7,13; 111:8;115:22;137:23; 138:19 Vancouver (1) 7:15 variability (6) 137:23,23;138:2,4,7, 16 various (6) 5:25;9:24;28:21; 42:9;126:22;164:14 vary (1) 35:19 vehicle (5) 77:24;78:3;93:14,15; 119:4	Virginia (3) 40:15;69:14;128:25 visually (1) 103:14 VOCs (3) 7:9;43:4;45:1 volatile (2) 42:4;44:11 volume (3) 137:18;138:25;141:4 volumes (2) 113:22;145:22 vote (1) 35:22 W wait (2) 25:20;99:20 waiting (2) 20:12;38:25 walk (2) 41:10,21 walked (1) 120:16 walking (1) 22:4 wall (17) 73:11;82:23,25;	weight (2) 30:5,10 weighting (1) 116:3 weight-later (1) 30:6 welfare (2) 76:16;77:12 weren't (3) 65:24;123:14;155:21 west (3) 92:23,25;113:12 western (1) 92:19 Westfield (14) 4:10;17:25;19:13; 20:25;22:6,9;23:6,8, 13;24:12;25:12,21,25; 43:16 what's (17) 7:24;18:5;21:12,14; 42:1;43:6;46:25;52:16; 86:10;93:12;95:6; 110:25;121:5;124:25; 125:2;139:9;142:18 Wheaton (30) 4:9,10;70:5;100:7; 103:6;130:2,5,6,9; 131:25;132:3;134:10,	99:21 wise (1) 31:14 wishes (2) 5:22;162:20 wishful (1) 52:15 within (12) 17:10;30:16,16; 35:11;80:2;90:5,8; 92:15;137:1,13; 148:15;150:13 without (24) 17:13;22:19;25:1; 31:7;40:24;42:23; 44:25;49:1;52:2;53:2, 3;59:21,21,22;73:11; 81:10;87:6,20;103:5; 104:19;162:24;165:7, 18,22 witness (131) 5:21;15:5;40:2,11, 13;41:14;43:10,18; 44:4,7,10,20,22;45:9, 17,21,24;46:1,6;47:5, 14,17,23;48:4,7,12,18, 20;49:6,13,16;50:17, 19;51:10,15,21;52:6,9, 21;53:1,6,9,13,19,24;

60:5,8,10,16;61:3,6,14,	zeros (1)	100 (3)	132:11	197 (3)
21,24;62:1,7,23;63:24;	86:21	47:4,8;101:21	166 (2)	146:12,19,20
64:1,15;65:5,8,25;	Zhu (1)	105 (3)	135:17;136:5	19th (2)
70:13;72:16;86:2;87:3;		74:9;84:1;105:6	17 (3)	40:17;70:10
89:12,23;90:16;91:3,	zoned (1)	107 (3)	4:13;9:19;149:16	,
25;93:14,17;96:12,14,	4:10	81:9;83:21,21	17:11 (4)	2
21;98:8;99:5,8,11;	Zoning (4)	10th (1)	148:20,22;149:1,2	
102:10;105:25;106:4,	4:5;32:11;35:25;	126:19	173 (1)	2 (22)
9,14,21,24;107:1,4,7;	126:20	11 (2)	6:4	26:19;37:4,5,8,24;
	120.20	4:15;165:23	174 (1)	
108:23;109:8,11,19;	0			41:23;47:19;60:20;
110:2,6,10,24;111:14,	U	11:15 (1)	6:4	126:25;129:5;133:8;
16;117:10;118:2;	0.2 (1)	127:3	178 (1)	134:2,23;135:6;136:3,
120:12;123:22,25;	0.2 (1)	11160 (1)	6:4	20;137:22;138:2,21;
124:8;141:12,22;	47:23	4:8	17th (2)	147:24;149:2,20
144:15;146:22;151:11,	0.3 (1)	1-14 (2)	12:3;40:17	2.0 (1)
15;152:7,17;156:17;	63:9	57:15,23	180 (5)	62:5
160:5;166:18,23,25;	001 (1)	11a (2)	130:25;131:10;	2.3.4 (1)
167:7	50:22	113:9;128:2	144:11;147:14;148:5	148:6
wonder (1)	002 (1)	12 (3)	181 (8)	2.44 (1)
74:17	50:21	49:20;152:10,12	129:24;131:5,6,7;	86:23
word (1)	0023 (2)	12:15 (1)	147:23;154:12,19,21	2.5 (3)
122:1	50:6;53:1	127:3	182 (3)	7:5;49:19;55:6
words (5)	003 (1)	1-22 (3)	148:2,11;149:9	2:04 (1)
35:11;42:13;56:19;	50:21	82:17,21;84:7	183 (1)	167:22
91:6;117:2	005 (2)	128 (2)	6:24	2:50 (1)
work (5)	50:8;53:10	59:24;126:20	186 (1)	136:15
12:10;25:19;29:7;	02 (4)	12s (1)	6:24	20 (4)
145:10;159:11	42:8;47:19;78:9,14	49:23	189 (1)	7:1;98:16,20;127:1
workday (1)	08 (8)	12th (3)	166:2	2009-based (1)
116:5	42:7;45:21,22;47:6,	12:8;166:14,21	189a (1)	49:21
worked (2)	7,17,18;48:2	13 (2)	7:1	2011 (12)
39:22;161:21	7,17,10,10.2	14:4;113:7	189b (21)	99:17;100:12;
working (3)	1	13.9 (2)	7:3;8:16;36:21,23;	114:19;130:18,18;
35:10,21;149:17	-	152:3,13	37:6,8,24;39:23;40:6;	140:4,13,17,25;145:13;
works (1)	1 (21)		41:24;48:25;51:6;	
				1/18:8:15(1:7)
	1 (31)	13-12 (1)		148:8;150:21 2012 (15)
87:9	4:13;56:19,21;57:5,	4:4	60:15;61:13,20;66:10,	2012 (15)
87:9 worst-case (1)	4:13;56:19,21;57:5, 6;77:3;93:7;98:22;	4:4 1-37 (2)	60:15;61:13,20;66:10, 11,22;67:17,23;166:3	2012 (15) 42:2;52:9;68:21,25;
87:9 worst-case (1) 111:12	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19;	4:4 1-37 (2) 84:2;105:7	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1)	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17,
87:9 worst-case (1) 111:12 wrap (1)	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23;	4:4 1-37 (2) 84:2;105:7 14 (2)	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22;
87:9 worst-case (1) 111:12 wrap (1) 162:1	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6,	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5)	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20;
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1)	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22;	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1)	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13;	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14;	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4)
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1)	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4)	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2)	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1)	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13;	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5)
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1)	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1)	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19,
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1)	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3)	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2)	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5)	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1)
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1)	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4)	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8;	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1)	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1)
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2)	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2)	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1)	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1)	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2)	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1) 111:4	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1) 6:20	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20 2-21 (1)
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1 Y year (2)	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2) 136:14,18 1:45 (2)	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1) 111:4 15-hour (1)	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1) 6:20 193 (2)	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20 2-21 (1) 135:17
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1 Y year (2) 69:11,20	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2) 136:14,18 1:45 (2) 159:3,5	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1) 111:4 15-hour (1) 116:5	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1) 6:20 193 (2) 7:3,4	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20 2-21 (1) 135:17 22nd (2)
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1 Y year (2) 69:11,20 years (6)	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2) 136:14,18 1:45 (2) 159:3,5 10 (21)	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1) 111:4 15-hour (1) 116:5 16 (7)	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1) 6:20 193 (2) 7:3,4 194 (4)	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20 2-21 (1) 135:17 22nd (2) 140:3,4
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1 Y year (2) 69:11,20 years (6) 31:23;43:7;46:1,5;	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2) 136:14,18 1:45 (2) 159:3,5 10 (21) 4:9;44:5;45:20;47:8;	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1) 111:4 15-hour (1) 116:5 16 (7) 4:7;98:23;99:13;	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1) 6:20 193 (2) 7:3,4 194 (4) 6:5,8,21;75:18	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20 2-21 (1) 135:17 22nd (2) 140:3,4 23 (1)
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1 Y year (2) 69:11,20 years (6) 31:23;43:7;46:1,5; 48:9;158:6	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2) 136:14,18 1:45 (2) 159:3,5 10 (21) 4:9;44:5;45:20;47:8; 48:5,8;49:3;55:9;	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1) 111:4 15-hour (1) 116:5 16 (7) 4:7;98:23;99:13; 105:7,15;106:1;148:8	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1) 6:20 193 (2) 7:3,4 194 (4) 6:5,8,21;75:18	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20 2-21 (1) 135:17 22nd (2) 140:3,4 23 (1) 4:13
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1 Y year (2) 69:11,20 years (6) 31:23;43:7;46:1,5; 48:9;158:6 yellow (2)	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2) 136:14,18 1:45 (2) 159:3,5 10 (21) 4:9;44:5;45:20;47:8; 48:5,8;49:3;55:9; 56:20;57:6;115:16,17;	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1) 111:4 15-hour (1) 116:5 16 (7) 4:7;98:23;99:13; 105:7,15;106:1;148:8 16:02 (1)	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1) 6:20 193 (2) 7:3,4 194 (4) 6:5,8,21;75:18 195a (3) 75:19,23;76:6	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20 2-21 (1) 135:17 22nd (2) 140:3,4 23 (1) 4:13 2-31 (2)
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1 Y year (2) 69:11,20 years (6) 31:23;43:7;46:1,5; 48:9;158:6 yellow (2) 84:4;105:7	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2) 136:14,18 1:45 (2) 159:3,5 10 (21) 4:9;44:5;45:20;47:8; 48:5,8;49:3;55:9; 56:20;57:6;115:16,17; 116:1,4,6;120:13,15;	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1) 111:4 15-hour (1) 116:5 16 (7) 4:7;98:23;99:13; 105:7,15;106:1;148:8 16:02 (1) 148:23	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1) 6:20 193 (2) 7:3,4 194 (4) 6:5,8,21;75:18 195a (3) 75:19,23;76:6 195b (2)	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20 2-21 (1) 135:17 22nd (2) 140:3,4 23 (1) 4:13
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1 Y year (2) 69:11,20 years (6) 31:23;43:7;46:1,5; 48:9;158:6 yellow (2)	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2) 136:14,18 1:45 (2) 159:3,5 10 (21) 4:9;44:5;45:20;47:8; 48:5,8;49:3;55:9; 56:20;57:6;115:16,17; 116:1,4,6;120:13,15; 123:17,17;125:20,21	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1) 111:4 15-hour (1) 116:5 16 (7) 4:7;98:23;99:13; 105:7,15;106:1;148:8 16:02 (1) 148:23 164 (9)	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1) 6:20 193 (2) 7:3,4 194 (4) 6:5,8,21;75:18 195a (3) 75:19,23;76:6 195b (2) 75:24;76:3	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20 2-21 (1) 135:17 22nd (2) 140:3,4 23 (1) 4:13 2-31 (2)
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1 Y year (2) 69:11,20 years (6) 31:23;43:7;46:1,5; 48:9;158:6 yellow (2) 84:4;105:7	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2) 136:14,18 1:45 (2) 159:3,5 10 (21) 4:9;44:5;45:20;47:8; 48:5,8;49:3;55:9; 56:20;57:6;115:16,17; 116:1,4,6;120:13,15;	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1) 111:4 15-hour (1) 116:5 16 (7) 4:7;98:23;99:13; 105:7,15;106:1;148:8 16:02 (1) 148:23 164 (9) 129:9;131:2,11,13;	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1) 6:20 193 (2) 7:3,4 194 (4) 6:5,8,21;75:18 195a (3) 75:19,23;76:6 195b (2) 75:24;76:3 195c (2)	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20 2-21 (1) 135:17 22nd (2) 140:3,4 23 (1) 4:13 2-31 (2) 148:6;154:20 2-32 (1) 148:6
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1 Y year (2) 69:11,20 years (6) 31:23;43:7;46:1,5; 48:9;158:6 yellow (2) 84:4;105:7 Yesterday (1) 167:4	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2) 136:14,18 1:45 (2) 159:3,5 10 (21) 4:9;44:5;45:20;47:8; 48:5,8;49:3;55:9; 56:20;57:6;115:16,17; 116:1,4,6;120:13,15; 123:17,17;125:20,21	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1) 111:4 15-hour (1) 116:5 16 (7) 4:7;98:23;99:13; 105:7,15;106:1;148:8 16:02 (1) 148:23 164 (9)	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1) 6:20 193 (2) 7:3,4 194 (4) 6:5,8,21;75:18 195a (3) 75:19,23;76:6 195b (2) 75:24;76:3 195c (2) 76:4,7	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20 2-21 (1) 135:17 22nd (2) 140:3,4 23 (1) 4:13 2-31 (2) 148:6;154:20 2-32 (1) 148:6 24 (2)
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1 Y year (2) 69:11,20 years (6) 31:23;43:7;46:1,5; 48:9;158:6 yellow (2) 84:4;105:7 Yesterday (1)	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2) 136:14,18 1:45 (2) 159:3,5 10 (21) 4:9;44:5;45:20;47:8; 48:5,8;49:3;55:9; 56:20;57:6;115:16,17; 116:1,4,6;120:13,15; 123:17,17;125:20,21 10.8 (1)	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1) 111:4 15-hour (1) 116:5 16 (7) 4:7;98:23;99:13; 105:7,15;106:1;148:8 16:02 (1) 148:23 164 (9) 129:9;131:2,11,13;	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1) 6:20 193 (2) 7:3,4 194 (4) 6:5,8,21;75:18 195a (3) 75:19,23;76:6 195b (2) 75:24;76:3 195c (2)	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20 2-21 (1) 135:17 22nd (2) 140:3,4 23 (1) 4:13 2-31 (2) 148:6;154:20 2-32 (1) 148:6
87:9 worst-case (1) 111:12 wrap (1) 162:1 wrestling (1) 34:10 write (1) 4:20 written (1) 122:18 wrong (2) 35:3;122:1 Y year (2) 69:11,20 years (6) 31:23;43:7;46:1,5; 48:9;158:6 yellow (2) 84:4;105:7 Yesterday (1) 167:4	4:13;56:19,21;57:5, 6;77:3;93:7;98:22; 121:15;129:5;132:19; 133:8,10,19;134:23; 135:6,22,24;136:3,6, 17;138:1,4,7,14,22; 147:24;149:3,5,14; 159:3 1,000 (1) 7:13 1.1-14 (1) 56:10 1:00 (1) 159:6 1:19 (2) 136:14,18 1:45 (2) 159:3,5 10 (21) 4:9;44:5;45:20;47:8; 48:5,8;49:3;55:9; 56:20;57:6;115:16,17; 116:1,4,6;120:13,15; 123:17,17;125:20,21 10.8 (1) 49:25	4:4 1-37 (2) 84:2;105:7 14 (2) 9:9;59:25 145-page (1) 7:14 15 (4) 49:20;98:23;99:13; 123:17 15:46 (3) 148:20,22;149:1 15a (4) 81:13,16;85:20,23 15-and-a-half (1) 111:4 15-hour (1) 116:5 16 (7) 4:7;98:23;99:13; 105:7,15;106:1;148:8 16:02 (1) 148:23 164 (9) 129:9;131:2,11,13; 132:2,4,8;137:21;	60:15;61:13,20;66:10, 11,22;67:17,23;166:3 189b1 (1) 36:24 189bi (5) 37:2,23,25;45:13; 48:24 189c (2) 7:19;62:4 189d (1) 7:15 19 (5) 4:13;6:2;9:20;81:8; 129:9 192 (1) 6:20 193 (2) 7:3,4 194 (4) 6:5,8,21;75:18 195a (3) 75:19,23;76:6 195b (2) 75:24;76:3 195c (2) 76:4,7	2012 (15) 42:2;52:9;68:21,25; 69:5;70:10;81:8;84:17, 23;99:24;100:22; 102:19;103:2;115:20; 129:10 2013 (4) 4:12,13;7:5;9:22 21 (5) 12:4;98:22;146:4,19, 25 22 (1) 7:5 2-20 (1) 132:20 2-21 (1) 135:17 22nd (2) 140:3,4 23 (1) 4:13 2-31 (2) 148:6;154:20 2-32 (1) 148:6 24 (2)

TEITHON OF COSTCO	WHOLESALE CORI O	KATION	
46:2,5;48:9	323 (3)	60:2	
24-hour (3)	113:11,13;128:4	58 (1)	7
136:13;148:16;	355 (1)	60:1	I
149:12	87:5	59-G-2.06 (1)	7 (7)
24th (5)	359 (12)	4:5	7 (7)
24th (5) 140:13,17,19,25;	` ,		42:6,7;44:8;47:6,18;
	84:25;85:7;86:3;	5th (1)	64:24,24
141:1	87:12,15,23;92:12;	6:5	7.96 (2)
25 (8)	100:15;110:21;112:3,		45:20;47:4
10:14;31:12;60:20,	5;114:22	6	7.96E-08 (1)
22,23;61:9;102:15,15	360 (6)		47:3
256 (2)	86:14,16;87:6;89:3,	6 (5)	70 (3)
94:21;95:24	8,9	4:13;56:21;57:5;	46:1,5;48:9
258 (1)	363 (1)	126:24;127:15	78 (2)
94:1	86:4	6.3 (1)	133:10,10
26 (4)	364 (5)	44:13	, .
4:12;113:8,9;128:1	84:25;85:9;86:6,7;	6.7 (3)	8
26.02.03.01 (2)	87:16	42:6;44:5,13	
76:5;78:7	365 (4)	6.70E-07 (1)	8 (8)
26.02.03.02 (1)	86:15,23;87:2,23	44:3	64:25;70:3,10;
78:6	37 (1)	60 (2)	102:19,23,24;103:2,3
	150:11	101:23;136:8	102.13,23,24;103:2,3
3	37-minute (1)	60,000 (1)	9
	150:12	12:24	9
3 (20)	150.12	60,000-gallon (1)	0.20 (2)
26:20;37:4,5,8,24;	4	13:13	9:30 (3)
56:21;57:5;62:6,7;	-	600 (1)	4:17;165:24;167:21
75:24;76:3;99:3;129:5;	4 (8)	114:8	90 (1)
	4:13;62:23;66:24;		7:19
133:7;134:6;147:1,3,		604 (2)	90,000 (3)
24;149:23;150:6	67:2;78:19;79:1;99:3;	127:17;128:12	12:23;13:3,4
3- (1)	128:11	606 (1)	94 (1)
77:20	4:02 (1)	60:1	27:15
3:20 (2)	149:6	62 (1)	98 (2)
136:18,20	40 (20)	71:16	134:3;136:3
3:46 (3)	31:23;93:8,8,8,8,9;	625 (1)	
148:7,25;149:5	94:3,3,4,4,4,5,8,11;	96:19	
30 (14)	95:5,8,17,18;110:25;	63 (1)	
31:12;63:11;69:22;	111:15	44:14	
70:4,5;97:7,11;101:21;	40-queue (1)	631 (1)	
134:2;137:11;152:19,	111:13	4:9	
20,21;163:21	410 (3)	639 (1)	
300 (1)	127:4,10;128:11	108:24	
134:15	442 (1)	65 (16)	
307 (3)	128:5	70:25;71:5,16;73:7;	
93:21,25;94:13	48 (2)	92:5;94:17;95:23;	
307s (1)	97:1;111:25	109:9;112:7,10;	
94:14	· · · · · · · · · · · · · · · · · · ·	118:17;119:18;121:5;	
3-101 (1)	5	122:24;136:7,24	
74:8	5	65/55 (2)	
	5 (7)	` /	
3-105 (1)	5 (7)	76:19;79:5	
3-105 (1) 77:16	6:7;56:21;57:5;	76:19;79:5 66 (5)	
3-105 (1) 77:16 31B (5)	6:7;56:21;57:5; 78:19;79:1;126:24;	76:19;79:5 66 (5) 89:5,7,13;91:7;92:4	
3-105 (1) 77:16 31B (5) 71:14;74:7;75:7,22;	6:7;56:21;57:5; 78:19;79:1;126:24; 127:2	76:19;79:5 66 (5) 89:5,7,13;91:7;92:4 67 (2)	
3-105 (1) 77:16 31B (5) 71:14;74:7;75:7,22; 76:11	6:7;56:21;57:5; 78:19;79:1;126:24; 127:2 5:58 (1)	76:19;79:5 66 (5) 89:5,7,13;91:7;92:4 67 (2) 44:14;71:16	
3-105 (1) 77:16 31B (5) 71:14;74:7;75:7,22; 76:11 31B-2 (1)	6:7;56:21;57:5; 78:19;79:1;126:24; 127:2 5:58 (1) 148:8	76:19;79:5 66 (5) 89:5,7,13;91:7;92:4 67 (2) 44:14;71:16 68 (1)	
3-105 (1) 77:16 31B (5) 71:14;74:7;75:7,22; 76:11 31B-2 (1) 120:8	6:7;56:21;57:5; 78:19;79:1;126:24; 127:2 5:58 (1) 148:8 50 (2)	76:19;79:5 66 (5) 89:5,7,13;91:7;92:4 67 (2) 44:14;71:16 68 (1) 136:23	
3-105 (1) 77:16 31B (5) 71:14;74:7;75:7,22; 76:11 31B-2 (1) 120:8 31B-5 (1)	6:7;56:21;57:5; 78:19;79:1;126:24; 127:2 5:58 (1) 148:8 50 (2) 101:20;102:14	76:19;79:5 66 (5) 89:5,7,13;91:7;92:4 67 (2) 44:14;71:16 68 (1) 136:23 69 (4)	
3-105 (1) 77:16 31B (5) 71:14;74:7;75:7,22; 76:11 31B-2 (1) 120:8 31B-5 (1) 120:2	6:7;56:21;57:5; 78:19;79:1;126:24; 127:2 5:58 (1) 148:8 50 (2) 101:20;102:14 530 (1)	76:19;79:5 66 (5) 89:5,7,13;91:7;92:4 67 (2) 44:14;71:16 68 (1) 136:23 69 (4) 112:4,15;113:5;	
3-105 (1) 77:16 31B (5) 71:14;74:7;75:7,22; 76:11 31B-2 (1) 120:8 31B-5 (1) 120:2 31B-5a2 (1)	6:7;56:21;57:5; 78:19;79:1;126:24; 127:2 5:58 (1) 148:8 50 (2) 101:20;102:14 530 (1) 59:24	76:19;79:5 66 (5) 89:5,7,13;91:7;92:4 67 (2) 44:14;71:16 68 (1) 136:23 69 (4) 112:4,15;113:5; 114:17	
3-105 (1) 77:16 31B (5) 71:14;74:7;75:7,22; 76:11 31B-2 (1) 120:8 31B-5 (1) 120:2	6:7;56:21;57:5; 78:19;79:1;126:24; 127:2 5:58 (1) 148:8 50 (2) 101:20;102:14 530 (1)	76:19;79:5 66 (5) 89:5,7,13;91:7;92:4 67 (2) 44:14;71:16 68 (1) 136:23 69 (4) 112:4,15;113:5;	
3-105 (1) 77:16 31B (5) 71:14;74:7;75:7,22; 76:11 31B-2 (1) 120:8 31B-5 (1) 120:2 31B-5a2 (1)	6:7;56:21;57:5; 78:19;79:1;126:24; 127:2 5:58 (1) 148:8 50 (2) 101:20;102:14 530 (1) 59:24	76:19;79:5 66 (5) 89:5,7,13;91:7;92:4 67 (2) 44:14;71:16 68 (1) 136:23 69 (4) 112:4,15;113:5; 114:17	
3-105 (1) 77:16 31B (5) 71:14;74:7;75:7,22; 76:11 31B-2 (1) 120:8 31B-5 (1) 120:2 31B-5a2 (1) 121:10	6:7;56:21;57:5; 78:19;79:1;126:24; 127:2 5:58 (1) 148:8 50 (2) 101:20;102:14 530 (1) 59:24 55 (8)	76:19;79:5 66 (5) 89:5,7,13;91:7;92:4 67 (2) 44:14;71:16 68 (1) 136:23 69 (4) 112:4,15;113:5; 114:17 6th (5)	
3-105 (1) 77:16 31B (5) 71:14;74:7;75:7,22; 76:11 31B-2 (1) 120:8 31B-5 (1) 120:2 31B-5a2 (1) 121:10 31B-5a3 (1)	6:7;56:21;57:5; 78:19;79:1;126:24; 127:2 5:58 (1) 148:8 50 (2) 101:20;102:14 530 (1) 59:24 55 (8) 71:7,8,16;73:7;	76:19;79:5 66 (5) 89:5,7,13;91:7;92:4 67 (2) 44:14;71:16 68 (1) 136:23 69 (4) 112:4,15;113:5; 114:17 6th (5) 114:19;130:18;	
3-105 (1) 77:16 31B (5) 71:14;74:7;75:7,22; 76:11 31B-2 (1) 120:8 31B-5 (1) 120:2 31B-5a2 (1) 121:10 31B-5a3 (1) 76:23	6:7;56:21;57:5; 78:19;79:1;126:24; 127:2 5:58 (1) 148:8 50 (2) 101:20;102:14 530 (1) 59:24 55 (8) 71:7,8,16;73:7; 118:17;119:18;121:5;	76:19;79:5 66 (5) 89:5,7,13;91:7;92:4 67 (2) 44:14;71:16 68 (1) 136:23 69 (4) 112:4,15;113:5; 114:17 6th (5) 114:19;130:18;	