In The Matter Of:

Zoning Application Before the Madison County Board of Adjustments

Application by Madison Asphalt, LLC for a Conditional Use Permit Vol. 3

May 6, 2019

Bridges Court Reporting
P.O. Box 2156 Rutherfordton, NC 28139
828-429-7839
Laura@LBridgesCourtReporting.com

Original File Madison-3.txt

Min-U-Script® with Word Index

STATE OF NORTH CAROLINA) ZONING APPLICATION BEFORE

COUNTY OF MADISON) MADISON COUNTY BOARD OF ADJUSTMENT

IN RE: Application by Madison Asphalt, LLC

For a Conditional Use Permit

Monday, May 6, 2019 6:04 p.m. - 9:02 p.m. Marshall, North Carolina

VOLUME III

Reported by:
Marianne S. Aguirre
Bridges Court Reporting
P.O. Box 2156
Rutherfordton, NC 28139
(828)429-7839
Marianne@Lbridgescourtreporting.com

APPEARANCES

On Behalf of Madison County Board of Adjustments:

Mr. Donny Laws, Esquire

Madison County Zoning Board of Adjustments:

Ms. Karen Kiehna, Chairman

Mr. Ernest Ramsey

Ms. Darlyne Rhinehart

Mr. Mike Tuziw

Mr. Robert Briggs

Also Appearing:

Mr. Albert Sneed, Esquire
The Van Winkle Law Firm
11 North Market Street
Asheville, North Carolina 28801
(828) 258-2991
asneed@vwlawfirm.com
On Behalf of the Applicant

Mr. Brian D. Gulden
Patla, Straus, Robinson & Moore, P.A.
29 North Market Street, Suite 300
Asheville, North Carolina 28801
(828) 255-7641
bdg@psrmlaw.com
On Behalf of the Opposition

Jeff Hyder, Zoning Administrator

* * * * * * * * * *

Quoted material is verbatim and may/may not reflect a direct quote.

I N D E X WITNESS	PAGE NO.
TJ Reed Examination by Mr. Gulden Examination by Mr. Sneed Examination by Mr. Gulden	274 308 326
Lynn Carmichael Examination by Mr. Sneed Examination by Mr. Gulden Examination by Mr. Sneed	339 364 373
Doug Bruggeman Examination by Mr. Gulden Examination by Mr. Sneed	374 386

* * * * * * * * * *

TABLE OF CONTENTS

EXHIBITS

EXHIBIT	DESCRIPTION	PAGE NO.
Applicant 35	Map	373
Applicant 47	Air Quality Permit	321
Applicant 48	Air Quality Permit - Rogers Plan	322
Applicant 49	Site Plan Revision	310
Opposition 3	Photographs	294
Opposition 4	Property Values Analysis	377

** Applicant exhibits retained by counsel

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 373 May 6, 2019

1	PROCEEDINGS
2	Madison County Board of Adjustment Quasi-judicial Public
3	Hearing,
4	May 6, 2019,
5	(WHEREUPON, due to the room acoustics and the
6	layout of the courtroom, the following
7	testimony may contain unclear or
8	unintelligible speech that was transcribed as
9	inaudible)
10	CHAIRMAN KIEHNA: Good evening. This is a
11	continuation of the April 22nd regular
12	Madison County Board of Adjustment meeting.
13	This is a quasi-judicial hearing which is
14	much like a court proceeding with myself,
15	Karen Kiehna, Chairman and our other board
16	members here to hear the let me call, I'll
17	call out our board members. Darlyne
18	Rhinehart, Mike Tuziw, Ernest Ramsey and
19	Robert Briggs are here as our board members.
20	Our secretary and zoning administrator is
21	Jeff Hyder. Our bailiff we do not have a
22	bailiff this evening okay, he's coming in.
23	We will continue where we left off at
24	our last the last session. I need to
25	remind everyone this is a quasi-judicial

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 374 May 6, 2019

Г	1121 0,2012
1	meeting; as such, shall let me see if I
2	can do this tonight. This is we follow
3	the as such, shall be conducted as a court
4	proceeding. Respect the hearing as if you
5	were in court. If circumstances require it,
6	the bailiff will bring the hearing into
7	order. There will be no hand holding up
8	your hands, making directions, calling out
9	within the meeting. If so, the bailiff will
10	be directed to remove folks. Please respect
11	the meeting so that we can continue on and be
12	as productive as we possibly can as the
13	board.
14	With that being said, as from our last
15	meeting, it was a cross-examination of Mr.
16	Reed and you can proceed from there. Mr.
17	Reed, please remember that you're still under
18	oath.
19	MR. GULDEN: Thank you, Madam Chairperson.
20	CROSS-EXAMINATION BY MR. GULDEN:
21	Q. Mr. Reed, again, introducing myself, I'm Brian Gulden.
22	I represent the folks in opposition to the asphalt
23	plant.
24	It was last month when you testified, somewhere
25	around April 22nd, if that's correct?

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 275 May 6, 2019

Yes, sir. 1 Α. 2 Q. I want to kind of draw your attention back to -briefly, to what you said concerning the traffic. 3 again, I'm just going to recall for you what I think 4 you said; you let me know if you're -- if it's 5 inaccurate. I think you said every day during your 6 operation when your plant's open you think that there 7 8 will be increase of about 15 to 20 trucks per day which would include the fuel tank and the asphalt cement 9 10 trucks and those delivering RAP. But each of those 11 trucks can carry about 15 tons of asphalt? 12 Yes, sir; average. Α. 13 Is that -- is that about right on average? Q. Do some of 14 them carry more, some of them carry less? 15 Yeah. Α. 16 Your report -- strike that. Q. 17 The TRC report that you had mentioned indicates that you're to make about, or your plant is going to 18 19 make about 170 tons -- 170 tons of asphalt an hour? 20 That's what it's capable of making, yes. Α. Well, I think it's capable of making a lot -- a lot 21 0. 22 Well, I guess, 170 tons is the max, is that what 23 you're going to make every hour you think? The average is 15 to 20 trucks per day. 24 The Α. 25 rating on the plant is 170 tons per hour.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 376 May 6, 2019

- 1 Q. So if you take --
- 2 A. That's a 100,000-ton limit per year in our air quality
- 3 permit.
- 4 Q. You're going to limit your production of asphalt to
- 5 100,000 tons a year?
- 6 A. That's what the permit asks for, yes.
- 7 Q. You -- and I'm asking you, so you're prepared to limit
- the production of your plant to 100,000 tons?
- 9 A. Yes.
- 10 Q. 100,000 tons?
- 11 A. Yes.
- 12 Q. If you operate on 170 tons per hour, which is your
- maximum, you run 11 hours a day which is -- you said
- you wanted to run 6:00 a.m. to 5:00 p.m., even if your
- trucks were carrying 30 tons, you know it's an extra 62
- 16 trucks a day of traffic?
- 17 A. Yeah, if we run it wide open that's what it will be,
- just constantly.
- 19 Q. So there's going to be some times during the middle of
- the year, let's say June to August, that you're going
- 21 to be running wide open so I think your testimony was
- you wanted to run wide open, that's why you wanted to
- run 6:00 a.m. to 5:00 p.m.?
- 24 A. No, I never said I wanted to run wide open.
- 25 Q. Under your permit, your plants got the ability to

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 277 May 6, 2019

- produce 170 tons per hour, that would increase, even a 30,000 ton -- strike that, even a 30-ton truck using 30 tons is going to increase by 62 trucks a day coming in that?
- 5 That's not at worst; at worst is when we pull up on a Α. job, we have to clean the road, we have to dry the 6 road, we have to set the traffic. We'll fill the silos 7 8 up real quick. The silos will have the mix in it and then we get it as needed. If we need to start it later 9 10 in the day we can make it quick once we get going then 11 we shut down. It was a few driveways, they'd call and 12 need mix, I can make it quick for them. But as for 13 running all day long that's, I mean, it won't even 14 happen one day, running continuous like that.
- Okay. But your permit allows for that to happen up to 100,000 tons a year.
- A. Well, 100,000 tons -- yes, that's the lease permit in
 Western North Carolina right now.
- Q. Right. So you're saying you're not going to do it but your permit and your plant would allow you to do that,

 62 extra trucks.
- 22 A. It will allow 100,000 tons a year, yeah.
- Q. Which significantly increases the amount of traffic on that two-lane road where you enter and exit the quarry site?

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 378 May 6, 2019

- 1 A. I -- I did the math running wide open; I can't tell you
 2 how many trucks it is a day if I run it wide open
 3 because that's never been expected.
- Q. Okay. Well, I'm going to do that for us real quick.

 If you run it wide open 170 tons an hour times 10 hours
 a day running wide open?
- 7 A. 6:00 to 5:00.
- 8 0. That's 11 hours.
- 9 A. Eleven hours.
- Q. So 11, that's 1800, that's 1,870 tons in that 11-hour period that you're going to make and if you divide that by 15 tons a truck, right? Each truck can carry about 15 tons, that's 124 trucks in and out of that quarry site on that two-lane road on a day that you run it wide open, which you can do?
- 16 A. Right.
- 17 Q. Have you made any efforts on doing a traffic impact 18 study on how that's going to affect the --
- A. No, we do have approval from the DOT though, so I assume they know what they're doing.
- Q. And did you tell them that you were going to run it wide open at 170 tons an hour and increase the traffic by 124 trucks a day?
- A. I have told nobody I'm going to run it wide open.

 That's 100 trucks a day. I don't even have 100 trucks,

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 379 May 6, 2019

I only have four. 1 2 Q. Well, you're going to sell it to other people, aren't 3 you? 4 Yeah. Α. 5 So other people have trucks. 0. Yeah. MR. SNEED: Let him finish his answer. 6 7 That's (inaudible). Α. 8 The problem is you're up there saying that 0. 9 you're never going to do it, you promise. Your plant's 10 not open, is it? 11 Α. No, it's not yet. And you don't have -- you don't have another 12 Q. Not yet. 13 facility that you're operating, do you? 14 Α. No. 15 And so this facility gives you the option to make that Q. much asphalt and you're asking this board to grant this 16 17 application with this facility that you could run wide open at 170 tons an hour? 18 19 We did 30,000 tons last year and that's working wide Α. 20 open, Monday through Friday, a Saturday when we need to, a night job when we need to. I don't expect to 21 22 sell more than -- to anybody else than I sell to myself 23 when we get started. Even later in the years it's 24 never going to produce that much asphalt. 30,000 tons 25 is the hardest we can work.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 380 May 6, 2019

- Q. And did I just hear you say that you're not going to sell your asphalt to anybody else?
- A. No, I will sell my asphalt. I don't anticipate to sell as much asphalt to other people as I put down myself.
- 5 Q. You indicate --
- A. I anticipate about 60,000 tons a year and I asked for 100 in case I go a little over that.
- 8 Q. You're going to do all that in 14 weeks, the 100 tons?
 9 100,000 tons, sorry, in 14 weeks, right?
- 10 A. Fourteen weeks?
- 11 Q. Yeah.
- 12 A. Shuts down in December 15th to March 15th, however many weeks that is.
- 14 Q. Fourteen. So you're going to just run --
- MR. SNEED: Objection. That's what he shut down,
- 17 A. Will I shut down for 14 weeks?
- 18 O. No.
- 19 A. No, I won't shut down for 14 weeks.
- Q. Let me -- let me show you what has already been
 identified by your expert and testified to, which is
 your TRC Application for Permit to Construct and
 Operate. Do you remember talking about the -- you
- 24 didn't really talk a lot about it, your air quality
- guy, did. You remember that though?

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 381 May 6, 2019

Uh-huh. 1 Α. 2 0. And you represented to the board that this is your application. 3 4 (WHEREUPON, Applicant Exhibit Number 10 previously marked for identification was passed to the 5 witness for review) 6 You can just look through it. 7 Q. 8 Α. Yeah. 9 Is that it? And on the Form B was our -- which are the 0. 10 specific emission sources information related to your 11 hot mix asphalt rotary drum mixer and your hot mix asphalt storage silos and your RAP recycling system, 12 13 they've got a bunch of specific information related to 14 the emissions and the discharges. You see that right 15 there, we're talking about? Which exhibit is that? 16 MR. SNEED: 17 MR. GULDEN: The TRC application, 6. Thank you. 18 Α. Yep. 19 You see that? And so in that application it says Q. 20 you're only going to work eight hours a day, five days a week for 14 weeks. 21 22 Α. That's what it says. 23 That's what you're going to do? 0. 24 Most of the time, yeah. The only exception we might Α. 25 work on Saturdays as needed.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 382 May 6, 2019

- And so during the night work and the Saturdays work, 1 Q. 2 there's going to be an increase on traffic, because we're focusing here on traffic and the amount that you 3 can produce, the amount of asphalt that you'd be able 4 to produce and the increase that it'll have on that 5 So during night work and Saturday work when 6 traffic. needed, there will be a potential for a net increase of 7 8 124 -- I said 6, it's 10, sorry. It's 10, Exhibit 10, There's going to be an increase of 124 9 Mr. Reed. 10 trucks each hour that you're in operation or each day, 11 sorry, strike that, each day.
- 12 A. 120?

19

20

21

22

23

24

25

- Q. 124 extra trucks, we just went through the math. I'm bad at math.
- 15 A. There's no way there's going to be 124 trucks coming
 16 from the asphalt lot each day. I mean, my air quality
 17 permit won't let me put any variables, it's pretty much
 18 full -- that's what my engineer said.
 - Q. Right. But your air -- but you're not following me.

 Your air quality permit here is saying you've got a
 maximum production of 100,000 tons of asphalt that
 you're going to make in 14 weeks, eight hours a day,
 five days a week if you break that math down it comes
 out to about 170 tons an hour. That's what your
 asphalt plant is capable of producing.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 383 May 6, 2019

- 1 A. That's the limit, yeah, I can't go over that.
- Q. And that's what you're asking this board and the state
- of North Carolina, Department of Environmental Quality
- and the Department of Air Quality, you're asking them
- to permit you to produce that much asphalt?
- 6 A. I'm asking them to limit that much asphalt.
- 7 Q. Right. You're asking -- so you're going to -- you're
- 8 saying limit, I'm saying produce. It's basically the
- 9 same thing. You can't produce any more than 100,000
- 10 tons of asphalt?
- 11 A. Right.
- 12 Q. But you can produce 100,000 tons in 14 weeks, no more.
- 13 A. I can. If it gets warm in February, like it did last
- 14 year, warm in March, early, I mean, I can pave, I can
- start it up pave if I want to, which is not DOT work.
- 16 Q. Right. But your maximum is 100,000 tons?
- 17 A. That's correct.
- 18 Q. And that -- if you break it all down, we can do the
- math again, has the potential to increase the traffic
- of 124 trucks a day.
- 21 A. So does the concrete plant and the rock quarry put that
- 22 out.
- 23 Q. You're going to have -- the traffic that you bring out
- is going to have accumulative effect on the impact on a
- two-lane road, isn't it?

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 384 May 6, 2019

On a four-lane, coming out of the top --1 Α. 2 0. Right there at the quarry site it just has an acceleration lane and center turn lane. 3 Well, it's two lanes and a turning lane and it goes 4 Α. 5 into a four-lane about 100 feet. About 100 feet. 6 Q. All traffic goes back to Buncombe County unless they're 7 Α. 8 paving in Madison, the traffic would be coming from -through there anyway. 9 10 You know you have the high school right up the road. Q. 11 Have you made any kind of safety plans for the trucks 12 driving past the high school? 13 The DOT has safety plans for speed limit, red lights. Α. 14 MR. TUZIW: Excuse me, I got a question for you. 15 THE WITNESS: Yes, sir. I want a clarification. You said when 16 MR. TUZIW: 17 he was talking about all these numbers that he's running out at us, you said unless it's 18 DOT, what do you mean by "unless it's DOT"? 19 20 Unless your jobs --21 THE WITNESS: Well, the DOT will not let you pave between December 15 and March 15 but 22 23 residential driveways and parking lots you 24 can pave if it's over 50 degrees. 25 So you're not going to be paving the MR. TUZIW:

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 385 May 6, 2019

rest of the year?
THE WITNESS: Do what now?
MR. TUZIW: You're not going to be paving the rest
of the year?
THE WITNESS: I won't be paving any city stuff.
If I do parking lot or something, you know,
and it's 80 or 60 degrees on a February day,
(coughing in audience) when it gets cold shut
back down.
MR. TUZIW: Thank you.
THE WITNESS: Typically during the times like at
the end of the year you really don't do it
unless you got a lot of good weather.
MR. TUZIW: So we're really only talking about
three and a half month's worth of operation.
THE WITNESS: Well, being shut down from you're
talking about six and a half months, seven
and a half months. Yeah, from March 15th
until December 15th
MR. TUZIW: I'm a little better at math than he
is, 14 weeks doesn't come out to six months.
THE WITNESS: Fourteen weeks is when we're shut
down, the 14 weeks is
MR. TUZIW: Permit saying you're shut down 14
weeks?

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 386 May 6, 2019

1	THE WITNESS: Yeah.
2	MR. TUZIW: The rest of the year you'll be
3	running?
4	THE WITNESS: Yeah.
5	MR. TUZIW: Sounds like he's saying the permit
6	says that you're only open
7	THE WITNESS: My permit may say that but it should
8	not. It should be shut down between March
9	and through December 15th and March 15th.
10	MR. TUZIW: So the permit is inaccurate too?
11	THE WITNESS: It looks to be, yeah.
12	MR. TUZIW: So that's another document that's not
13	right?
14	THE WITNESS: I assume that, yeah.
15	MR. TUZIW: Thank you.
16	BY MR. GULDEN:
17	Q. Just to clarify, yes, we were arguing about the wrong
18	thing. I was looking at your permit saying you were
19	only operating 14 weeks
20	A. I was trying to do the math but I ain't that good at
21	math.
22	Q. Nor am I, so I'm with you on that. But 14 weeks, but
23	that's not correct now?
24	A. It's another clerical error.
25	Q. Another mistake. Like the mistake in the

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 387 May 6, 2019

I knew 124 trucks a day was not correct, I knew that. 1 Α. 2 Q. That's a lot of trucks a day, isn't it? A lot of trucks, yeah. 3 Α. So that is incorrect, the diagram where the 4 Yeah. Q. 5 silos were the wrong height, that's incorrect. at your TRC application --6 7 (Inaudible) Α. 8 Yeah, yeah, but the numbers were wrong, yeah, there. 0. 9 Those darn guys. 10 Okay. So have you made any -- as the traffic 11 relates, have you made any plans on traffic flow in 12 your -- on your site once your traffic gets into the --13 in your site? 14 I haven't done really to the quarries -- state road Α. 15 through there. The quarry entrance is DOT approved. Bad question on my part. If you look at your 16 Q. Yeah. 17 site plan on there, my question is, how is the traffic going to flow inside your site plan? And the site plan 18 19 was a separate exhibit to the TRC report because that 20 wasn't included. I think it may have been Exhibit 2 to 21 -- maybe 10A, yeah, that's beside the plant, right, that's in the --22 23 They pull in, they go north and they around and loop Α. 24 out.

So they're going to come in --

25

Q.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 388 May 6, 2019

We have a 30-foot right-of-way outside the plant so 1 Α. 2 they can pass. 3 So that's what you're talking about right there, right? 0. 4 That's the one we just looked at. 5 Yeah. Α. Will you come down here with the board so you can show 6 Q. them? 7 8 (WHEREUPON, the witness steps down to the easel in front of the board members) 9 10 Mr. Reed, if you want to come around and show the board Q. 11 your -- so you're going to come in here. This is the 12 quarry and property around. This is your site lane, 13 you're going to enter in here on this dead-end approved 14 -- is this going to be paved? 15 No, just that down there, to show where the (inaudible) Α. 16 can turn at. 17 And which way are they going to go? Are they going to Q. 18 go around this way and out -- and then out? And you're 19 going to -- the east left up here, you've got this 20 mobile toilet right here. What efforts have you had --21 well, who is going to be using that mobile toilet right there? 22 23 People in the back, I mean, the control house in the Α. 24 back. 25 So while these big trucks carry 15 tons of asphalt are Q.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 389 May 6, 2019

- moving around this area, you got folks crossing across
 there to go to that mobile toilet?
- 3 A. Yeah.
- 4 Q. You've got them crossing underneath all of this
- 5 equipment to go to the mobile toilet?
- 6 A. (Inaudible)
- 7 Q. In and around all of this equipment to get to that --
- 8 A. As long as they got hard hats on.
- 9 Q. Do you -- any other restroom, bathroom, water closet
- 10 facility other than this mobile toilet?
- 11 A. No, we decided to just to do a port-o-john.
- 12 Q. Was that port-o-john approved by the Madison County
- 13 Sanitation Director as part of this plan?
- 14 A. Not yet, I was under the impression it didn't have to
- be until I had the permit passed.
- 16 Q. So did you talk to the sanitation director about the
- use of that mobile toilet?
- 18 A. I talked to Jamie List.
- 19 Q. Who's that?
- 20 A. She said she didn't have a problem with it.
- 21 Q. Do you have -- is there going to be running water in
- your east lab?
- 23 A. Yes.
- 24 Q. Are you going to have --
- 25 A. Not drinking water, I'm going to buy drinking water.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 390 May 6, 2019

- 1 It's an industrial well.
 2 Q. That's going to be an industrial well so there's going
 3 to be no drinking water --
- 4 A. We'll buy the water.
- 5 Q. -- no hand washing?
- A. You can wash your hands, just can't drink it. We'll buy drinking water.
- Q. What about if someone gets something in their eye, some of the hazardous material, some of the asphalt, cement in their eye, where are they going to wash out, clean out their eye?
- 12 A. They can wash it in the lab.
- Q. An industrial well is going to supply the water to wash out someone's eyes? You can't drink it but you can wash eyes out --
- 16 A. -- separate tank, it's inside this building. It's got
 17 a pump on it.
- 18 Q. So where is the water going to be in that -- where are they going to wash their eyes out in the east lab?
- 20 A. In the east lab, yes.
- 21 Q. With the industrial water?
- 22 A. No. With the water that is provided in the bottle that
 23 pumps out in the eyewash --
- Q. Where is it going to drain into?
- 25 A. It has a pan beneath the eyewash station.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 391 May 6, 2019

- Q. And you're going to just empty out the eyewash stuff out there --
- 3 A. I suppose.
- Q. Well, I mean, say you have something hazardous on your hands or in your eyes, you wash it out, it goes into a -- goes into a pan where you collect it, don't you have another issue then when you take that, whatever that hazardous stuff was, walk out the east lab door and then just dump it on the ground?
- 10 A. Well, I didn't say I was going to do that.
- 11 Q. Well, where are you going to put it?
- A. Put it in the port-o-john and they'll come pump it out.

 I mean, I'll get rid of it. I'm not going to just -- I
- don't think it's going to be hazardous from washing
- your eyes out. I don't understand where you're going.
- 16 Q. Well, no, so all of the materials that go into making
- hot asphalt or, yeah, the asphalt mix, contains
- hazardous materials, right? You know that. I mean,
- 19 it's got --
- 20 A. It's rock and liquid asphalt, yeah.
- 21 Q. And liquid asphalt. You hate to get the liquid asphalt
- in your eye.
- 23 A. Yeah. (Inaudible)
- Q. You have to wash it out -- yeah, yeah, I mean, you have
- to wash it out, I imagine. And so I'm just checking

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 392 May 6, 2019

- the folks that are working in there. How safe is it going to be? I just want to make sure that they've got the right cleansing area.
- A. They will. The DOT has to come in and approve that and that's one of the approvals before they'll ever let us operate a lab, yeah.
- 7 Q. If you want you can go sit back down.

We saw some pictures of the elevation of that site. Did you, during any period of time when you were contemplating this, go around to the individuals in the surrounding neighborhood that are going to be able to see your proposed facility, whether it's the stackhouse or the baghouse or any of those conveyors?

14 A. I didn't, no.

8

9

10

11

12

13

- 15 Q. You didn't go around. You realize that there's going
 16 to be a significant number of people who are going to
 17 be able to see your site or some part of it?
- A. I realize there's a lot of people that don't like bars in Marshall but they don't -- the bars (inaudible) asking if it was approved.
- 21 Q. I'm just asking you.
- 22 A. Well, that's fine, that's the way I --
- Q. But you didn't have to ask anybody because there's bars in downtown Marshall?
- 25 A. I thought about it because they're on the other side of

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 393 May 6, 2019

- the river looking at a quarry currently. I didn't 1 2 think adding an asphalt plant and a quarry would be detrimental to their view if they were already looking 3 at the quarry. 4 5 You don't think -- what your thought was, that's 0. why you didn't ask, you didn't go around to the 6 neighbors and ask anybody? 7 8 Α. That's the reason I didn't go across the river, nobody can see it accept people across the river, if that was 9 10 your question. 11 0. What about the individuals who are on the same 12 topographic elevation as the top of your smokestack 13 that live about 800 feet away? You think they would be 14 able to see it, won't they, especially during the 15 winter? There's a hill that's level to our smokestack, I don't 16 Α. 17 know about across the river how -- I don't know --What about Doug Bruggeman who lives 800 feet away? 18 0. 19 He's on the backside, yeah, of the quarry. Α. 20 You don't think he'll be able to see it from anywhere Q. 21 on his property? 22 Α. I doubt it. 23 You don't think so? 0.
 - Bridges Court Reporting 828-429-7839

24

25

Α.

I don't think so.

looked at before.

(Inaudible) his property but I

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 394 May 6, 2019

And it did -- and you didn't go over -- you didn't talk 1 Q. 2 to him, you didn't talk to anybody? 3 I did not, no. Α. 4 Have you been out there since the -- I'm going to say Q. 5 Good Friday flood event, have you been out there? Yeah. 6 Α. Did you see all of the runoff that occurred of the site 7 0. 8 itself? I saw a check dam next to our side. I didn't go to the 9 Α. 10 rest of the quarry. I just went to our side to the 11 check dam. And what's a check dam. 12 Yeah. Q. 13 It's like a big dam that's built about 40 foot deep. Α. 14 Where's that -- there's a big dam on your property? 0. 15 Α. It's on --I'm going to show you a series of pictures. I guess I 16 Q. 17 can mark them --Madam Court Reporter, I think I'm on 18 MR. GULDEN: 19 Exhibit 3, Opposition 3? 20 THE REPORTER: Yes. (WHEREUPON, Opposition Exhibit Number 3 was marked 21 for identification and passed to the witness 22 23 for review) I'm going to hand you -- and it's a group of maybe 11 24 0.

pictures, you can count them when you go through them.

25

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 395 May 6, 2019

If you can look through these and identify, and maybe 1 2 you can't. I don't know. 3 That's the site. Α. 4 So those are pictures of your site? Q. 5 Someone's been trespassing. Α. Do you have -- do you own that property? 6 Q. 7 It's leased, currently leased, yes. Α. 8 Yeah, but so this is your site. Did you post no 0. 9 trespassing signs? 10 We didn't know -- think we had to -- state of North Α. 11 Carolina without written permission (inaudible). 12 Do you know where this --Q. 13 MR. SNEED: Speak up please, when you talk, speak 14 up. 15 I said I didn't have to post no trespassing -- have it Α. posted and you're not supposed to be on people's 16 17 property without written permission in North Carolina. 18 Do you know where these pictures were taken from? 0. 19 MR. SNEED: I object to these pictures. Who took 20 You haven't identified who took them. them? Do you recognize these pictures that are of your site? 21 0. 22 They're of my site but I didn't take them. Α. 23 Right, you didn't take them. But they accurately 0. 24 reflect what your site looks like? 25 I've not touched the site. I don't have a

Α.

Yeah.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 396 May 6, 2019

permit so I haven't done any grading to the site, any 1 2 ditching, any soil sampling, none of the stuff that comes once you get a -- haven't done anything. 3 4 On your plan through TRC we heard testimony that there Q. 5 are no stormwater and erosion control measures in place. 6 7 But there will be, yes. Α. 8 0. Where? I object to this line of questioning. 9 MR. SNEED: 10 It's been established that that comes if we 11 get a permit. You don't have to get that for 12 the permit. Once you get the permit you have 13 to go get that. 14 THE WITNESS: Before you can do --And I will say that has not been --15 MR. GULDEN: that hasn't been established, Mr. Sneed. 16 17 What's been established --She has sustained my objection. 18 MR. SNEED: 19 THE COURT: I sustained. 20 You had indicated that there was a -- not a 0. 21 possibility, that some of the neighbors, some of the 22 people, might get a whiff of odor. 23 I did say that. Α. 24 You did say that? 0. 25 Α. Yes.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 397 May 6, 2019

What measures have you taken to reduce the odor? 1 Q. 2 Α. Put a condenser on the AC tank. None of the plants in Western North Carolina have condenser noise. 3 4 And how does that reduce odor? Q. 5 The biggest time you get odor is when you transfer Α. material from the tanker into the tank. The AC takes 6 the fumes and blue smoke that comes off the tank and --7 8 or the condenser and liquefies it, turns it back into liquid, it runs back into the tank. 9 10 Notwithstanding the condenser, you still expect some Q. 11 folks living in and around the area to get this whiff of odor? 12 13 If the wind is blowing the right direction and the Α. 14 trucks are loading at that time that's when the whiff 15 It's not -- not a steady smell, just a will come. whiff and that's only for a few people that --16 17 Q. What kind of security lighting are you going to have? Security lighting, we're going to have security 18 Α. 19 I'll have some lights pointing at the ground cameras. at night for nightwork if we're running nights. 20 we're not running nights, we won't have lights on. 21 And I guess I should have asked, but I started to say, 22 Q. 23 what kind of lighting are you going to have on the 24 facility? You going to have -- other than when you're 25 working you're not going to have lights on at all?

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 398 May 6, 2019

	•
1	A. There's a little red light that works on the other
2	than that, no, not really.
3	CHAIRMAN KIEHNA: May I ask a question?
4	MR. GULDEN: Sure.
5	CHAIRMAN KIEHNA: Mr. Reed, you had stated that,
6	if I'm correct you stated that you did go out
7	and visit the site on the day of the Good
8	Friday before Easter?
9	THE WITNESS: Well, I currently went after. I
10	didn't go that day.
11	CHAIRMAN KIEHNA: How many days after did you go?
12	THE WITNESS: It was it was probably about
13	seven days after. You can see, the pictures
14	you have, it's got streams on it that have
15	level it up a little bit and smooth it out
16	and they were washed in the check dam, the
17	dam area, there's a few of those down in
18	there.
19	CHAIRMAN KIEHNA: Where is this dam area? Can you
20	show us?
21	THE WITNESS: Yeah. When I had spoke with TRC
22	about the erosion plans and spill control, we
23	talked about doing additional around the
24	outside of the property down to this side.
25	MR. TUZIW: Keep going.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 399 May 6, 2019

	5 /
1	THE WITNESS: Okay. And doing like a little water
2	catch for where we could test the water on
3	our property before it runs down into Pat
4	McCurry's check dam. That way we could test
5	the water separately and anything if there
6	was anything there it would be pouring on my
7	property.
8	MR. TUZIW: So you're going to be using McCurry's
9	check dam for yours also?
10	THE WITNESS: Yes.
11	MR. TUZIW: Is it large enough of a tank for both
12	sites?
13	THE WITNESS: It is, it's huge, it's massive. I
14	think, I'm not sure but I believe he has
15	another one down below it way before the
16	regular one.
17	MR. TUZIW: I'd hold up on that drain.
18	THE WITNESS: There's no water in it. There's
19	some screenings washed around the edge of it
20	but there's no water in it when I got there.
21	That was seven days later but it looked
22	pretty dry.
23	MR. TUZIW: Yeah, but you could see the damage if
24	it had damaged
25	THE WITNESS: Yeah, you saw a little trench

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 300 May 6, 2019

	[
1	running downstream from us, but you know,
2	once, if it gets approved, we won't have
3	screenings so there won't be washing anymore.
4	MR. SNEED: You don't have what?
5	THE WITNESS: Screenings.
6	MR. SNEED: Streams?
7	THE WITNESS: Screenings.
8	MR. SNEED: Screening?
9	THE WITNESS: Yes.
10	MR. BRIGGS: Explain what screenings
11	CHAIRMAN KIEHNA: Right.
12	THE WITNESS: They're like the like they put on
13	the agriculture center for the horse rink.
14	They're the fine asphalt crushings that they
15	they compact hard when it rains in one
16	area like it is right now on that side that
17	it makes a little rut and washes down and
18	that's what happened. It'd washed down.
19	MR. TUZIW: Are they permeable?
20	THE WITNESS: Are they what?
21	MR. TUZIW: Permeable. They absorb the water and
22	the soil through them or is it holding the
23	water on top is it permeable means soil
24	is able to absorb moisture.
25	THE WITNESS: Oh, yeah, it's a lot like mud, it

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 301 May 6, 2019

gets really hard when it starts raining outside. MR. TUZIW: When the water runs across it, it won't be absorbing any of the chemicals or any of the soil. It's going to run off to that pond. THE WITNESS: Yeah. And that's what we'll have a pond here to check down our what all the runoff will be funneled from one area and it'll have a buildup before it goes over in heavy rain so that we can test it if need be. MR. TUZIW: And he has a second pond after a rainfall THE WITNESS: And a huge there's a huge check dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they told me that they couldn't do anything until		5 /
MR. TUZIW: When the water runs across it, it won't be absorbing any of the chemicals or any of the soil. It's going to run off to that pond. THE WITNESS: Yeah. And that's what we'll have a pond here to check down our what all the runoff will be funneled from one area and it'll have a buildup before it goes over in heavy rain so that we can test it if need be. MR. TUZIW: And he has a second pond after a rainfall THE WITNESS: And a huge there's a huge check dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA,	1	gets really hard when it starts raining
won't be absorbing any of the chemicals or any of the soil. It's going to run off to that pond. THE WITNESS: Yeah. And that's what we'll have a pond here to check down our what all the runoff will be funneled from one area and it'll have a buildup before it goes over in heavy rain so that we can test it if need be. MR. TUZIW: And he has a second pond after a rainfall THE WITNESS: And a huge there's a huge check dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	2	outside.
any of the soil. It's going to run off to that pond. THE WITNESS: Yeah. And that's what we'll have a pond here to check down our what all the runoff will be funneled from one area and it'll have a buildup before it goes over in heavy rain so that we can test it if need be. MR. TUZIW: And he has a second pond after a rainfall THE WITNESS: And a huge there's a huge check dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA,	3	MR. TUZIW: When the water runs across it, it
that pond. THE WITNESS: Yeah. And that's what we'll have a pond here to check down our what all the runoff will be funneled from one area and it'll have a buildup before it goes over in heavy rain so that we can test it if need be. MR. TUZIW: And he has a second pond after a rainfall THE WITNESS: And a huge there's a huge check dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	4	won't be absorbing any of the chemicals or
THE WITNESS: Yeah. And that's what we'll have a pond here to check down our what all the runoff will be funneled from one area and it'll have a buildup before it goes over in heavy rain so that we can test it if need be. MR. TUZIW: And he has a second pond after a rainfall THE WITNESS: And a huge there's a huge check dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	5	any of the soil. It's going to run off to
a pond here to check down our what all the runoff will be funneled from one area and it'll have a buildup before it goes over in heavy rain so that we can test it if need be. MR. TUZIW: And he has a second pond after a rainfall THE WITNESS: And a huge there's a huge check dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	6	that pond.
runoff will be funneled from one area and it'll have a buildup before it goes over in heavy rain so that we can test it if need be. MR. TUZIW: And he has a second pond after a rainfall THE WITNESS: And a huge there's a huge check dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	7	THE WITNESS: Yeah. And that's what we'll have
it'll have a buildup before it goes over in heavy rain so that we can test it if need be. MR. TUZIW: And he has a second pond after a rainfall THE WITNESS: And a huge there's a huge check dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	8	a pond here to check down our what all the
heavy rain so that we can test it if need be. MR. TUZIW: And he has a second pond after a rainfall THE WITNESS: And a huge there's a huge check dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	9	runoff will be funneled from one area and
MR. TUZIW: And he has a second pond after a rainfall THE WITNESS: And a huge there's a huge check dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	10	it'll have a buildup before it goes over in
rainfall THE WITNESS: And a huge there's a huge check dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	11	heavy rain so that we can test it if need be.
THE WITNESS: And a huge there's a huge check dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	12	MR. TUZIW: And he has a second pond after a
dam down here, it's massive. You can literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	13	rainfall
literally put the whole plant in it. MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	14	THE WITNESS: And a huge there's a huge check
MR. TUZIW: I'm going to ask the question you probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	15	dam down here, it's massive. You can
probably don't know the answer to, but do you know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	16	literally put the whole plant in it.
know what the state requires him to have, how big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	17	MR. TUZIW: I'm going to ask the question you
big of a pond and whether he's at THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	18	probably don't know the answer to, but do you
THE WITNESS: I don't know what he requires, no. But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	19	know what the state requires him to have, how
But I'd spoke with the EPA about it, I mean, the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	20	big of a pond and whether he's at
the, yeah, the EPA. I spoke with the EPA, the state of North Carolina about it and they	21	THE WITNESS: I don't know what he requires, no.
the state of North Carolina about it and they	22	But I'd spoke with the EPA about it, I mean,
	23	the, yeah, the EPA. I spoke with the EPA,
told me that they couldn't do anything until	24	the state of North Carolina about it and they
	25	told me that they couldn't do anything until

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 302 May 6, 2019

	3 /
1	the permit was approved, that I didn't need
2	to do it but they told me that it should be
3	sufficient as long as I had Pat's permission
4	and I had the pool here to catch
5	MR. TUZIW: You're kind of in a catch 22, you
6	can't get answers until some of the questions
7	until you have a permit.
8	THE WITNESS: Right.
9	MR. TUZIW: And you can't get a permit until we
10	have answers
11	THE WITNESS: A lot of these questions I
12	MR. BRIGGS: Who requires check dams?
13	THE WITNESS: The state of North Carolina requires
14	a stormwater drainage as spill control and
15	outlet.
16	MR. TUZIW: Is this required to, like Pat McCurry,
17	this is part of his permit process?
18	THE WITNESS: I'm sure it is, yeah, when we spoke
19	about it, I'm sure it is.
20	MR. BRIGGS: Do they have to maintained on a
21	regular basis?
22	THE WITNESS: I'd say they do. He looks like he
23	maintains it. There's a couple of little
24	trees growing in it. As far as the dam area
25	it's very it's very built up and overdone

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 303 May 6, 2019

ſ	• /
1	of course, I'm not so I don't really
2	know the specifics of it but it's massive.
3	MR. BRIGGS: How are they inspected by the state
4	agency?
5	THE WITNESS: I do not know that.
6	MR. BRIGGS: Are they inspected at all?
7	THE WITNESS: I don't know that either. They
8	wouldn't really talk to me about that, so
9	a building permit.
10	MR. TUZIW: Did they tell you you'll be required
11	to have them?
12	THE WITNESS: Yeah.
13	MR. TUZIW: They haven't told you how big it would
14	have to be?
15	THE WITNESS: No.
16	MR. TUZIW: He won't tell you whether or not you
17	can use his along with as yours?
18	THE WITNESS: The guy that I talked to he told me
19	he didn't see why as long as had Pat's
20	permission.
21	MR. TUZIW: Do you have his permission?
22	THE WITNESS: Yeah.
23	MR. TUZIW: Thank you.
24	BY MR. GULDEN:
25	Q. Just a couple of follow-ups because you indicated, do

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 304 May 6, 2019

these three, four pictures demonstrate the testimony 1 2 that you were testifying to the board about, about the runoff, the, you called it screenings? 3 Screenings. 4 Α. 5 Screenings? 0. Yeah. 6 Α. But is this the runoff that you were kind of talking 7 0. 8 about that some of the site lost its compaction and drained into a, you said, a big dam? 9 10 I can't tell what this is really, have not been there. Α. 11 Looks like it's down on the side of the dam. Down inside the dam? 12 Q. 13 Α. Uh-huh. That's what it looks like. 14 MR. RAMSEY: What's inside the dam? I mean, is it 15 a stream --THE WITNESS: No, it's --16 17 Q. If you want to testify to these four pictures, I can hand them out to the board. 18 19 MR. GULDEN: Albert, you've got them in there. 20 It'd be retention ponds is what it looks like, just a Α. 21 big, huge retention pond. Anything that goes over the pond toward the river has got to be like 30 or 40 feet 22 23 deep before it ever spilled over. Asphalt doesn't hurt 24 anybody though, the only thing could ever spill and go 25 that far like diesel fuel. That's why we're doing

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 305 May 6, 2019

		1/14 0, 2015
1		double spill control and double-wall tank, just to make
2		sure of that.
3	Q.	And so you're talking about this, it's hard for the
4		board to see but I can hand it to them. That is the
5		dam you think this is all that's down inside of the
6		dam. Is that what you're testifying
7	Α.	It looks to be. I can't testify that it is because I
8		didn't take these pictures.
9	Q.	And you hadn't been there down in that?
10	Α.	I haven't been down in that hole, no.
11		MR. RAMSEY: So the big rock formation that's in
12		the distance in the picture, that is the dam?
13		THE WITNESS: That looks like the dam.
14		MR. SNEED: Madam Chairman, these pictures were
15		taken illegally. I don't know what they
16		represent. There's a lot of innuendo and
17		stuff suggesting that that's what the site
18		looks like. Why don't the board and the two
19		lawyers go down there so you can see it for
20		yourself? Be happy to arrange that. Let's
21		us know when you would like to go.
22		CHAIRMAN KIEHNA: I believe that would be a good
23		idea.
24		MR. GULDEN: Yeah, I don't have an objection to
25		that.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 306 May 6, 2019

	,
1	MR. BRIGGS: Ask him who took these pictures.
2	MR. GULDEN: It's not the Albert, it's not the
3	fact of who took them. It's what they
4	represent.
5	MR. SNEED: Well, I'd like to talk with the person
6	who took them. We can see this dam area when
7	they go and look.
8	MR. GULDEN: That's exactly right, yes.
9	MR. RAMSEY: Well, I want to know who took them
10	just out of curiosity.
11	MR. GULDEN: They were taken with a drone.
12	MR. RAMSEY: With a drone?
13	MR. GULDEN: With a drone, you know, one of those
14	little things, bzzz.
15	MR. SNEED: Which is illegal to take pictures of
16	people's property with a drone.
17	MR. GULDEN: For surreptitious purposes, it's
18	illegal.
19	MR. SNEED: No, no.
20	MR. GULDEN: Yes, absolutely.
21	MR. SNEED: No, it says any kind of picture
22	without permission.
23	THE WITNESS: Regardless, we haven't because we
24	don't have a permit.
25	MR. BRIGGS: Can we get down there to look it? If

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 307 May 6, 2019

1	it was only accessible with a drone, you
2	going to fly us down there, Counsel?
3	MR. SNEED: You can drive right down to the site.
4	You can drive to the site as I understand it.
5	MR. TUZIW: Where the pond is?
6	MR. SNEED: You can see the pond.
7	MR. TUZIW: We can get close enough to be able to
8	see it?
9	THE WITNESS: Yeah, there's another way you can
10	walk down also. You don't have to go down
11	into the woods there.
12	MR. RAMSEY: I'd like to see it.
13	CHAIRMAN KIEHNA: Yes. I think we need to make a
14	site visit.
15	MR. GULDEN: Madam Chair, I wouldn't object to
16	that. The lawyers, Mr. Laws, we can all
17	schedule a time to do that.
18	CHAIRMAN KIEHNA: We'll schedule a time.
19	MR. GULDEN: Okay. That will be perfect.
20	MR. BRIGGS: Counsel, I don't want to prejudice
21	your case or be premature or anything, but
22	what exactly what point were you going to
23	get to about the check dam or what did you
24	call it?
25	THE WITNESS: I call it a check dam.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 308 May 6, 2019

ſ	·
1	MR. TUZIW: Retention pond.
2	MR. BRIGGS: Retention pond.
3	MR. GULDEN: If he doesn't know, it was a Mr.
4	Board member, it was about the erosion and
5	sedimentation control measures in effect,
6	whether they are effective but he doesn't
7	know the answer to any of those other than he
8	testified about some of the I thought he
9	said stream but it was screen.
10	THE WITNESS: Screenings.
11	MR. GULDEN: Screenings in the pond. We had
12	pictures of that so to demonstrate his
13	testimony we offered that but if he doesn't
14	know anything about the erosion control,
15	stormwater runoff, I'm not asking him about
16	that anymore. And my objection was or
17	sustained, so we've moved on. But that is
18	what it was for. Those would be my
19	questions.
20	REDIRECT EXAMINATION BY MR. SNEED:
21	Q. So Mr. Reed, how many days last year did you work
22	paving?
23	A. We worked about Christmas about to Christmas.
24	Q. When did you start?
25	A. We started it got warm in February, I believe, and

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 309 May 6, 2019

- we worked two weeks in February, then had to quit again because of cold weather and then we started back about the middle of March to the best of my recollection.
- Q. And were you paving pretty much every week when the weather was decent?
- A. Yeah. Some -- well, we do but we also do turnkey jobs so we do the concrete side, we do the grading on some, we do the sidewalk, we do the milling, we do the patching. Patch days, you know, we'll work like crazy all day. We'll put down 60 tons some days.
- 11 Q. How much asphalt did you put down last year, all year?
- 12 A. 30,000 tons, right at 30,000, I don't know the exact number. It's right around 30,000 tons.
- Q. And that was working all the good days you could work
 Monday through Saturday from February until December?
- 16 A. It's mostly Monday through Friday. We don't like to work weekends.
- 18 Q. Monday through Friday?
- 19 A. Yeah, we work a few Saturdays, not many though.
- Q. If you're doing 30,000 tons how many truckloads would there be, 15, 20 a day?
- 22 A. Less than that.
- 23 O. Be less than that?
- 24 A. Yes.
- 25 Q. And do you know for your own personal knowledge whether

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 310 May 6, 2019

this Form B is incorrect or not? 1 2 Α. The air permit I just looked at? 3 Where he says the sources can operate 14 weeks a 0. 4 year, eight hours a day. 5 That is incorrect. We will operate more than 14 weeks Α. I don't know why it's incorrect but it is. 6 a year. Well, could it be that that's -- that your permit only 7 Q. 8 allows you to produce 100,000 tons? 9 Α. Maybe. 10 And the actual number of days it takes to produce that? Q. 11 Maybe. That may be why they done that. I don't know. Α. If you don't know, you don't know, that's fine. 12 Q. 13 let me show you Exhibit 49 and ask you to identify it. 14 (WHEREUPON, Applicant Exhibit Number 49 was marked 15 for identification and passed to the witness 16 for review) 17 Α. That's the revision of the site plan that Mr. Gulden had pointed out errors in so I had it revised. 18 19 So did you get permission to amend the site? Q. 20 I did, yes, sir. Α. Amend the lease? 21 0. I did, I got permission from Pat and we had it surveyed 22 Α. 23 and then we had a site plan and they had to meet all the zone plans and we had the labels changed. 24 25 MR. SNEED: And we'd like to offer Exhibit 49.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 311 May 6, 2019

		Widy 0, 2017
1		(WHEREUPON, Applicant Exhibit Number 49 was
2		offered into evidence)
3	Q.	So this site plan is now how many feet across the back?
4	Α.	The very top is 221.7 221 feet, seven inches.
5	Q.	So it's 200 feet across all the way down or more than
6		200 feet?
7	A.	Yes, sir, the back setback line would 201 foot and
8		seven inches. All the setback lines are
9	Q.	And then the structures table, was that corrected?
10	Α.	It was, yes, sir.
11	Q.	They switched up the ones they had cross referenced?
12	Α.	We did, (inaudible) and AC tank are now correct
13		correctly labeled.
14	Q.	So we would offer Exhibit 40.
15		MR. GULDEN: That would be 49 and.
16		MR. SNEED: And ask that it be added to the permit
17		application.
18		MR. GULDEN: That's, I guess, what I would object
19		to. When you have an application that comes
20		before the board three days into the hearing,
21		you come and you submit an amended site plan
22		which corrects any potential errors that have
23		been pointed out, I think it's too late to
24		offer that to the board now as part of the
25		site plan. It just, it affects the due

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 312 May 6, 2019

1	process that's owing to all the citizens of
2	Madison County to have everything together so
3	that people can go and look at it and review
4	it and see if it complies. It didn't comply;
5	they testified to the fact that it didn't
6	comply and now they just go back and they
7	say, oh, well, we're just amending the site
8	plan to have it be 201 feet and we're asking
9	that it be admitted to the application.
10	I object to that. I mean, that's
11	that is patently unfair and that's a bad term
12	to use.
13	MR. SNEED: Actually it's not unfair. You got an
14	ordinance that says 200 feet from the
15	setback. The normal setback people think
16	about is the front. Is it 200 feet
17	everywhere? What if you had a triangle lot?
18	But instead of getting bogged down in all
19	that, we amended the lease and got this plan
20	so that that's no longer an issue and we have
21	the property leased for extra land. Because
22	the ordinance doesn't say which setback.
23	THE WITNESS: I guess that's why I also asked Jeff
24	Hyder and the town of Marshall if everything
25	was correct before we submitted the final and

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 313 May 6, 2019

1	it was overlooked by them as well.
2	MR. GULDEN: Then they just need to start the
3	process I don't want them to start the
4	process over, but that's what they should
5	have done if they have an amended site plan.
6	Again, it is if you're looking at it for
7	what processes do you have notice
8	requirements so that people can go down, they
9	can look at the site plan and they can pick
10	out issues and say, no, it looks good to me.
11	I don't have any issues with it because we
12	were here at the hearing taking issue with
13	part of their site plan that didn't meet the
14	zoning ordinance. They had every opportunity
15	to say, let's strike this site plan, go back,
16	reapply, get this matter on with the proper
17	site plan. But to come three days later,
18	it's been days later; but during the third
19	day of testimony, it is unfairly prejudicial
20	to my clients.
21	MR. SNEED: And how could that be? It's 200 feet
22	everywhere. I think the ordinance is
23	improperly interpreted by your administrator
24	because he says it's got to be everywhere,
25	but it's 200 feet in the front. That's an

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 314 May 6, 2019

orrected it, 't be an issue diced by that? o try and make n. That's ugh this whole ice, Mr.
diced by that? o try and make n. That's ugh this whole
o try and make n. That's ugh this whole
n. That's ugh this whole
ugh this whole
ice Mr
ice Mr
TOE, HIT.
other than a
lication?
n, the board is
al use permit,
and it
have it, if you
it, but it says
the obligation
ompliance with
s case, it has
vor of the
that all of
he zoning
he zoning
he zoning at could simply
•

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 315 May 6, 2019

U ,
permit that it be 200 feet in width.
MR. GULDEN: So the triangle lot is the best
MR. LAWS: I mean, what we're talking about is
that your argument was that it was 191 or 192
feet in width at its widest at its
narrowest point, correct?
MR. GULDEN: Yeah.
MR. LAWS: So it was short by nine foot, right?
MR. GULDEN: Whatever it was, 196.4 so it would be
3.6.
MR. LAWS: So it's less than ten foot? Okay. And
you've been preparing a defense based upon it
only being 195 foot? What are you going to
offer any different based upon it being 195
feet as to 200 feet other than just argument?
I mean, is this a technical violation?
MR. GULDEN: So there's more to our case than just
it fails to meet the 200-foot setback but
that is an aspect of it that is a technical
violation that when it was advertised and
individuals came down to look at the plan,
the plan showed inaccuracies that we've
pointed out that they've corrected. It
showed lot widths that were too small making
it unsuitable for an industrial setting of

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 316 May 6, 2019

1	this nature. And then to then to be able
2	to say, well, we're going to correct all of
3	that, so that it is now suitable, is an
4	unfair prejudice in the sense that we have
5	been working diligently to try to contest
6	this case and if all it takes is now to have
7	TRC go back and correct this permit to have
8	the applicant go back and correct the site
9	plan, what's to stop them from the day before
10	the board starts to deliberate to say, oh,
11	any other issues that you have, we're just
12	going to submit more information. We just
13	don't have any opportunity to review the
14	application in its complete form. That's the
15	prejudice.
16	MR. LAWS: Do you have any support for that, any
17	case law or anything that says this Court
18	that this board does not have the authority
19	or doesn't have jurisdiction to hear the
20	matter if the application is deficient due to
21	technical violations?
22	MR. GULDEN: No. Well, the ordinance itself if I
23	can take a minute but I don't need to; we
24	should just move on with questioning. But
25	the ordinance itself says they have to show

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 317 May 6, 2019

	·
1	compliance. Had I known they were going to
2	amend their site plan, again, had I known, I
3	could have been here prepared to argue it.
4	But then to all of a sudden to say, oh, by
5	the way, bingo, here you go, I don't have a
6	case that says that. Why? Because I didn't
7	know about it. I just didn't know about it.
8	I'm happy to look and bring some supporting
9	documents if there are any out there, I don't
10	know. But my objection is as I stated, it's
11	an unfair prejudice.
12	MR. SNEED: In granting such permit, the board of
13	adjustments, may designate such conditions in
14	connection therewith as well in its opinion
15	assure that the proposed use will conform to
16	the requirements and the spirit of this
17	ordinance.
18	(UNIDENTIFIED FEMALE): Are you speaking on the
19	record?
20	MR. TUZIW: I don't have the first page.
21	(WHEREUPON, there was an off-the-record
22	discussion)
23	MR. LAWS: And might I suggest that we just
24	reserve ruling on the objection, allow the
25	parties to proceed and if Mr. Gulden has any,

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 318 May 6, 2019

	112dj 0, 2015
1	give him an opportunity to come forward with
2	any supporting documentation that he might
3	have to support his objection at a later
4	time.
5	MR. TUZIW: Give us a chance to everybody read
6	what we're talking about.
7	BY MR. SNEED:
8	Q. Mr. Reed, let me show you Exhibit 47.
9	MR. TUZIW: If you'll hold on a second and let us
10	finish what we're working on.
11	MR. SNEED: Oh, I'm sorry.
12	MR. LAWS: So that would be my suggestion to defer
13	our I suggest that you defer ruling on
14	this and allow the parties to resume and then
15	give both parties an opportunity to address
16	the issue at before we make a decision but
17	go ahead and hear the evidence, if you're
18	agreeable.
19	CHAIRMAN KIEHNA: I'm agreeable, yes.
20	MR. LAWS: Is the whole board, I think for the
21	record
22	CHAIRMAN KIEHNA: Are we going
23	MR. TUZIW: State what it is so we know exactly
24	what we're talking about here. You're asking
25	us to

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 319 May 6, 2019

1	MR. LAWS: I think Mr. Gulden has objected to the
2	entry into evidence of the revised site plan
3	and at this time we would move forward and
4	not make a ruling on it but allow the parties
5	to continue with their questions regarding
6	the site plan and allow Mr. Gulden to address
7	the issue as to whether the board has
8	jurisdiction and what the effect of
9	proceeding with the site plan would be at a
10	later time and allow Mr. Sneed to respond to
11	that. But for the interest of time go ahead
12	and proceed at this time.
13	MR. GULDEN: I'd agree to that, thank you.
14	MEMBERS: Yes.
15	MR. SNEED: May I proceed now?
16	MR. TUZIW: Before you go on I have a question
17	now. Since we're going to go ahead with this
18	and we're going to take into account as if
19	these new facts and new changes are on there,
20	correct me if I'm not mistaken here, but
21	weren't there also issues of numbers that
22	were rounded down? At the next meeting can
23	we expect to see in the application with
24	those fixed?
25	THE WITNESS: The 14.5 and 14.7, on the silo

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 320 May 6, 2019

ĺ	
1	elevation?
2	MR. TUZIW: But there were numbers, if I remember
3	correctly, Mr. Gulden was pointing out that
4	they had been rounded down.
5	MR. SNEED: I think the testimony from the
6	engineer was it was based on the tank and
7	that's why tank was for (inaudible)
8	MR. TUZIW: I'm not talking about the numbers that
9	were flip-flopped that you fixed this time.
10	MR. SNEED: No, they're numbers
11	MR. TUZIW: There was an issue of numbers that
12	were rounded down so they would look better,
13	will those be fixed at the next meeting?
14	THE WITNESS: They are fixed right now.
15	MR. TUZIW: They are fixed?
16	THE WITNESS: I forgot to mention that. They went
17	from 14.7 on this one.
18	MR. TUZIW: Are they fixed on those too?
19	THE WITNESS: Yeah.
20	MR. TUZIW: Okay. Just wanted to make sure we've
21	got the actual accurate numbers of really
22	what's going to happen, not something that
23	was just like thrown together.
24	THE WITNESS: (Inaudible)
25	MR. TUZIW: Okay. I'm done, thank you.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 321 May 6, 2019

Let me show you Exhibit 47 and ask if 1 MR. SNEED: 2 you can identify it. (WHEREUPON, Applicant Exhibit Number 47 was marked 3 4 for identification and passed to the witness for review) 5 It's the air quality permit for APAC Weaverville on 6 Α. 7 Goldview Road. 8 All right. And where did you get it? 0. From the DAQ, well, Buncombe County DAQ. They've got 9 Α. 10 their own separate air quality. 11 0. So what is the capacity of the plant? 12 Α. It's 300 tons per hour. 13 And then several pages in it gives the maximum annual Q. 14 capacity, right? 15 It has 300 ton silos is what --Yeah. Α. 16 And what is their annual 12-month rolling average Q. 17 production (inaudible)? Their limit is 450,000 tons a year. 18 Α. 19 Have you ever been to that plant? Q. 20 I have a lot, yeah. Α. How's it located? 21 0. 22 Α. It's right on top of a ridge as you go -- before you 23 start down to the river. It's right next to Austin 24 Dynamite and the quarry. It's on the outskirts of 25 quarry.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 322 May 6, 2019

We'd offer Exhibit 47. 1 MR. SNEED: 2 (WHEREUPON, Applicant Exhibit Number 47 was offered into evidence) 3 4 It also has, somewhere on here, it has one 2,000 number Α. 5 two fuel, two 20,000 number four fuel, three 30,000 (inaudible) and propane. 6 7 How does that compare to yours? 0. 8 Α. I have one diesel fuel tank and one AC tank. Let me show you Exhibit 48. 9 0. 10 (WHEREUPON, Applicant Exhibit Number 48 was marked 11 for identification and passed to the witness 12 for review) 13 Ask you if you can identify that? Q. 14 This is the air quality permit from Rogers plant in Α. 15 Hendersonville. Where is that located in Hendersonville? 16 Q. 17 Α. It's right on Hendersonville Highway or -- Asheville 18 Highway, sorry. 19 Where did you get this? Q. 20 From the DAQ, the regional office from the guy over Α. Henderson. 21 And does it show capacity on that plant? 22 Q. 23 Yeah, 300,000 tons per year is their limit and 250 tons Α. 24 per hour. 25 250 tons per hour and how much per year? Q.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 323 May 6, 2019

300,000. Both these plants do shingles as well. 1 Α. 2 MR. SNEED: We'd offer Exhibit 48. 3 (WHEREUPON, Applicant Exhibit Number 48 was 4 offered into evidence) 5 Now, you had an overview of that Rogers plant, did you Q. 6 not? 7 Α. Yes. 8 Could you come down here and point it out? This is 0. 9 Exhibit 3. 10 (Inaudible) Α. 11 (WHEREUPON, the witness steps down to the easel in front of the board members) 12 13 MR. GULDEN: You might need to speak up. Madam 14 Court Reporter, can you hear him? 15 THE REPORTER: No, I cannot. Got to speak loud. 16 Q. All this is residential, all this is residential 17 Α. 18 (pointing at easel, Exhibit 3) down here on Hendersonville, I don't know exactly where it starts. 19 20 The city limits comes out here somewhere. (Inaudible) all of them together just outside of -- well, there's 21 three plants here. 22 23 I'm just talking about this plant, is it bigger than Q. your proposed plant? 24 25 Α. Yes.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 324 May 6, 2019

Right next to Asheville Highway? 1 Q. 2 Α. Yes. 3 Before you go, all this residentials 4 you just pointed out, how many of them were there before the plant was built? 5 I don't know when that plant went in 6 THE WITNESS: 7 exactly. 8 0. I know the answer to that. It's an older neighborhood. (WHEREUPON, the witness returns to the stand) 9 10 I did study on that map a little bit for Rogers. Α. 11 There's seven homes within 800 foot of that plant. Within what? 12 Q. 13 Α. Within 800 foot. 14 Eight hundred foot? 0. 15 The APAC plant that's on that map, there's Yeah. Α. around 14 homes and two churches within 800 foot. 16 The 17 closest house is around 215, 220 foot. And I wanted to go over the issues of your plan of 18 Q. operation. Your planned hours of operation are what? 19 20 6:00 to 5:00, Monday through Friday, weekends if I have Α. 21 to, nights if it's required by the DOT or City of Asheville or something. 22 23 Now, will your drum mixer be running all the time? Q. 24 Α. It will come on to fill up the silos and then it 25 will go off.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 325 May 6, 2019

- Q. What kind of rules are you going to put in place regarding the trucks that are sitting in line to fill up?
- 4 I like to do a no idle policy so that don't sit there Α. 5 and idle while they're waiting because sometimes trucks wait for an hour or two and just don't see any sense in 6 them sitting there with the motors running. 7 I'd like 8 to do that and I'd also like to have all the lights pointing down, nothing shining toward the river or 9 10 anything.
- 11 Q. Now, you've got an office just across from the entrance 12 of the bypass, right?
- 13 A. We do, that's correct.
- 14 Q. And can you hear the quarry?
- 15 A. I can hear the crusher that's on the far side from the
 16 bypass when it starts up but the big jaw is down next
 17 to where our plant's proposed supposed site, I can't
 18 hear it unless I go in the quarry.
- 19 Q. That's the big jaw crusher?
- 20 A. Yeah.
- 21 Q. Are you worried -- after your investigation can you
 22 tell us whether or not you're worried about any
 23 pollution at your office?
- 24 A. No, I'm not worried about pollution.
- 25 Q. Or at the playground?

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 326 May 6, 2019

	1111y 0, 2015
1	A. No.
2	MR. SNEED: That's all.
3	MR. TUZIW: I have a question. You said you'd
4	like to have a no idle policy. What would
5	prohibit you from having one?
6	THE WITNESS: Well, making people cut their trucks
7	off and they got the air conditioner running
8	is always a
9	MR. TUZIW: But it's your plant so
10	THE WITNESS: Right, I'll definitely try to
11	enforce (inaudible).
12	MR. GULDEN: Can I ask a couple questions unless
13	the board has any more questions?
14	RECROSS-EXAMINATION BY MR. GULDEN:
15	Q. The reason that you've introduced two air quality
16	permits related to Rogers Plant and the Goldenview
17	asphalt plant, is that because you're just saying those
18	plants are bigger than your plants?
19	A. I was showing the size of those plants and their
20	document, yes.
21	Q. Those plants make noise and you're aware of all the
22	noise complaints related to each of those plants?
23	A. Yeah. Those plants have been there a long time though.
24	Q. You know the Rogers Plant was only permitted in 2001?
25	A. 2001?
l.	

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 327 May 6, 2019

- 1 Q. 2001.
- 2 A. That's probably right.
- 3 Q. Right. And you know how old that subdivision is that's
- 4 right next to it, built in the 80s?
- 5 A. I don't. APAC was there before Rogers I assume.
- 6 There's three plants right there.
- 7 Q. There's three plants right there. Did you know that
- 8 all of those plants came in at a time when there was no
- g zoning, Henderson County had no county-wide zoning? Do
- 10 you know that?
- 11 A. Uh-uh.
- 12 Q. No? Yes or no?
- 13 A. I didn't know that, no.
- 14 Q. And so you're basically saying these plants are going
- to produce more than what your plant produces. These
- plants are going to be closer to Buncombe County than
- your plant is going to be, is that correct?
- 18 A. I don't know if it's closer to Buncombe County.
- 19 Q. You don't know? You don't know how far it is from
- 20 Buncombe County from these plants?
- 21 A. It's close to Buncombe County from our site.
- 22 Q. Yeah. Do you --
- 23 A. I don't know the difference.
- 24 Q. Do you do -- the majority of your work is in Buncombe
- 25 County?

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 328 May 6, 2019

It is. 1 Α. Why aren't you using -- why don't you use these plants 2 Q. 3 to buy your asphalt? 4 Because our trucks end up sitting on 26 for three or Α. 5 four hours a day sometimes and it's expensive. I can't compete; those are my competitors that I have to buy 6 from. 7 8 0. Are you going to introduce new corrected TRC report 9 next time we have a hearing? 10 I don't know that that report is not right. I'm not an Α. 11 air permit quy. But it's limiting you to 14 weeks a year. 12 Q. 13 MR. SNEED: Objection. It does not say that. 14 Doesn't say that. Α. 15 0. I mean --MR. SNEED: It states the assumptions for the 16 17 calculations. Does it -- let me just --18 0. Well, Madam Chairperson, I didn't 19 MR. GULDEN: 20 catch the rule on that. 21 CHAIRMAN KIEHNA: I would have to be able to see 22 and read it so that I can make that 23 determination. 24 MR. GULDEN: You all have Exhibit 10 and I'm just 25 pointing that out right there. Who has a

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 329 May 6, 2019

v /
copy of the exhibits? Your board members are
asking for exhibits.
THE REPORTER: I have the board's exhibits. He
has his. I only have the Board's 1 through 5
4 .
MR. SNEED: Madam Chairman, may I be heard on
that?
CHAIRMAN KIEHNA: Yes.
MR. SNEED: I think that is
MR. GULDEN: If they can see yours, Al.
MR. SNEED: It says 14 weeks, eight hours a day
and I think that is the assumptions that are
limited because it's limited to 100,000 hour
100,000 ton output.
MR. TUZIW: (Inaudible) or no?
MR. SNEED: This is for the air quality, not
saying what they are supposed to operate.
MR. TUZIW: I'd still like to see what it says.
MR. SNEED: Yes, sir, it's right there on Exhibit
B. The air quality permit makes you assume
the maximum intensity of operation and that's
what Mr. Vandenmeiracker talked about, that
you have to assume the most intense
operation. So the most intense operation for
170-ton would be the whole eight hours

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 330 May 6, 2019

1	a day for 14 weeks. But that's actually, as
2	he said it's going to be spread out over a
3	much longer time but the state makes you
4	assume the most intense operation. That is
5	not a limitation on the operation. The
6	permit is for up to 100,000 tons a year and
7	we can produce 170 an hour but we don't we
8	can choose which hours to produce it. It's
9	not a limitation of what the operation is.
10	MR. TUZIW: So what you're saying is the state is
11	taking worst case scenario that they're
12	putting in there, showing that with maximum
13	amount this plant can do, based on those
14	hours of operations that many days a week, he
15	would use it up in 14 weeks is what you're
16	saying is implying that he could only run
17	full force for 14 weeks. What he's implying
18	is that he's only asking to do it for 14
19	weeks, so it's up to us to determine which
20	one we think that the state actually is
21	MR. SNEED: I can get the man who wrote that
22	report back here to answer the question for
23	you but I believe that it is that they
24	make you assume the worst case scenario in
25	each of these accounts that you look at. And

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 331 May 6, 2019

1	I can have him back here next time to answer
2	that question.
3	MR. BRIGGS: So this is by tonnage? Talking about
4	expect to schedule eight hours a day, five
5	days a week, 14 weeks that would be at 171
6	tons per hour? He's to have his 100,000 tons
7	done in 14 weeks.
8	MR. SNEED: The fastest we could get it done, so
9	that they can look at the worst case scenario
10	of all the emissions that would be out there.
11	MR. TUZIW: So if he were to run it that way, when
12	he hits his 100,000 in 14 weeks
13	MR. SNEED: He's not
14	MR. TUZIW: based on what he's trying to tell
15	us, he'd have to shut down for the rest of
16	the year.
17	MR. SNEED: That's right.
18	MR. TUZIW: So you know, we have to lay a little
19	common sense into all this too. Like I
20	always tell my wife, if common sense were
21	truly common everybody would have it. We
22	have to assume that he can't run it and won't
23	run it that way because what's he going to do
24	for the rest of the year other than twiddle
25	his thumbs and go fishing, although that

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 332 May 6, 2019

	J /
1	might not be a bad idea, right?
2	Okay. It makes more sense to me now. I
3	got what they're doing. They're just
4	they're doing their governmental, here's the
5	worst case scenario if the world was ending
6	tomorrow, you could run for 14 weeks and
7	that's it. We all know that your cap of
8	100,000 and you won't run for 14 weeks and
9	then quit. So you're going to spread it out
10	so it's going to be the
11	THE WITNESS: Yes.
12	MR. TUZIW: Thank you.
13	CHAIRMAN KIEHNA: So we are letting the document
14	speak for itself and moving forward?
15	MR. TUZIW: I do have one or two more questions if
16	you guys are done with him for now?
17	MR. GULDEN: Please continue.
18	MR. TUZIW: My memory is not what it used to be.
19	I have great short-term memory; it's just
20	really, really short. So I'm thinking back
21	to when you were on the stand before and I
22	asked you about the sales tax and when I'm
23	given time to think about things that come
24	I'll ask cool questions. So just so I can
25	clarify in my mind you had testified that, if

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 333 May 6, 2019

1	I remember correctly, that you're doing the
2	majority of your business in Buncombe County
3	and you're paying roughly 80 to \$85,000 a
4	year in sales tax to them?
5	THE WITNESS: We did 2.4 million in Buncombe
6	County last year at 2.25 percent, what's that
7	leave us, about 55,000.
8	MR. TUZIW: I had written in my notes 80 to 85,
9	maybe it's my mistake, but still 50 to 55 to
10	Buncombe County?
11	THE WITNESS: Yeah.
12	MR. TUZIW: Is that because you're buying from
13	them in Buncombe County or because the
14	majority of your jobs are being done in
15	Buncombe County?
16	THE WITNESS: It's because I'm buying
17	MR. TUZIW: So it's
18	THE WITNESS: That's where we buy the materials.
19	MR. TUZIW: So the sales tax is calculated based
20	on where you're purchasing from?
21	THE WITNESS: Yes.
22	MR. TUZIW: So if you get this plant, French Broad
23	is going to be buying from
24	THE WITNESS: Madison Asphalt.
25	MR. TUZIW: Madison Asphalt.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 334 May 6, 2019

• /
THE WITNESS: Yes.
MR. TUZIW: And paying Madison Asphalt sales tax
that they're going to collect in Madison
County which will then be given to Madison
County. But you made a comment that night
about when I asked about the state jobs
when I was questioning whether the state pays
sales tax or not?
THE WITNESS: Yes, sir.
MR. TUZIW: And you said that they still pay the
sales tax but you made a comment that stuck
in my head about how they charge it back.
Can you explain to me what you meant by that?
THE WITNESS: When we do a job, our office
separates all the taxes that we do for like,
the City of Asheville. And then we turn in
the City of Asheville and then the finance
department for the City of Asheville, I
forget her name and she's over all that, she
told me that they turn it in at the end of
the year and get reimbursed from it. Now,
where that comes from, I don't know but hat's
what she told me.
MR. TUZIW: So it sounds to me like what they're
doing is they're non-profit. I mean, I'm a

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 335 May 6, 2019

1	non-profit and when I buy stuff, we pay sales
2	tax and then at the end of the year we file
3	to get our sales tax back. Sounds to me like
4	that's what the state is doing?
5	THE WITNESS: I guess it could be.
6	MR. TUZIW: So in essence then the state's going
7	to you're going to pay Madison County the
8	sales tax and then the state is going to
9	charge it back to Madison County and take it
10	away from us so we're having a net zero sales
11	tax per year?
12	THE WITNESS: I don't know where the state gets it
13	from. That could be correct, I'm not sure.
14	MR. TUZIW: Well, they get it back from the
15	counties that collect it, then that's
16	THE WITNESS: Is that how it works? She didn't
17	elaborate on how it works. She just, she
18	sent me an email for when they get
19	reimbursed.
20	MR. TUZIW: I fill out a form that states what my
21	sales tax purchases were in each county that
22	I bought them in because then they turn
23	around and they go back to the county and get
24	that money refunded back from the county. So
25	if you're collecting it from Madison County
l.	

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 336 May 6, 2019

	J ,
1	and then the state is refunding it back,
2	Madison County is not getting a penny of it.
3	THE WITNESS: Well, private jobs they would,
4	driveways, parking lots and all that they
5	would.
6	MR. TUZIW: But didn't you state what
7	percentage did you state of your business is
8	coming from the state?
9	THE WITNESS: A lot of my business comes from the
10	city, a lot of it does, MSD, different
11	things. We have other subcontractors, we do
12	subdivisions and tennis courts and stuff too.
13	MR. TUZIW: So the majority of their business is
14	coming from government?
15	THE WITNESS: The majority of it is coming from
16	government, yes.
17	MR. TUZIW: So our net gain is going to be none?
18	THE WITNESS: I don't know exactly, I'm hoping it
19	will be about the same, half local and half
20	of the subdivisions and parking lots and half
21	of that (inaudible). We also looked into
22	hopefully we've been talking that we'd like
23	to start a gravel crew if we get it up and do
24	a lot more local stuff in Madison. We would
25	like to.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 337 May 6, 2019

	3 /
1	MR. TUZIW: Okay. That's all I have, thank you.
2	CHAIRMAN KIEHNA: One more and this is just
3	clarification. So I believe we are now clear
4	that you are actually closed 14 months,
5	approximately 14 months a year 14 weeks.
6	That you're closed 14 weeks but last year
7	there was two extra weeks so
8	THE WITNESS: Yeah, it was a few extra weeks last
9	year, got a little warmer.
10	CHAIRMAN KIEHNA: So you're open 38 to 40 weeks a
11	year?
12	THE WITNESS: Probably around somewhere in there.
13	CHAIRMAN KIEHNA: 52 minus
14	THE WITNESS: It varies
15	CHAIRMAN KIEHNA: Right. Not knowing, you know,
16	if you've got a warm fall, you get to carry a
17	week or two longer.
18	THE WITNESS: Correct. Has to be like, a couple
19	of weeks of warm weather before we can start
20	it up.
21	CHAIRMAN KIEHNA: So it's just it's just flip
22	it on its head and not open 14 but closed 14,
23	open 38?
24	THE WITNESS: Yeah.
25	CHAIRMAN KIEHNA: Okay. Thank you.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 338 May 6, 2019

You're welcome. 1 THE WITNESS: 2 BY MR. GULDEN: Mr. Reed, just briefly, I'm going to clarify all this 3 0. 4 math for everybody and I think the board members have an understanding but if you look at that TRC permit, if 5 you take 170 tons per hour and you times that by five 6 days a week, eight hours a day that it says in your 7 8 permit you come up with, I think it's like 6,800 tons per that week. It would take you producing 14 weeks at 9 10 6800 tons a week to run up against your 100,000 ton 11 limit? That's what the math is. I'm not going to do 12 I'm really bad at math, but I think I did it while 13 we were standing here, that's all you're saying. 14 That's all that that permit is doing is it's saying 15 give you were full 170 tons an hour, 40 hours a week, 16 it would take you 14 weeks to max out 100,000 tons? 17 Α. I don't know how they do it. I guess that's how they I don't know. I really don't. 18 19 Okay. And I don't want to belabor the point but your Q. 20 testimony is that you're not going to be full-on --I don't want to comment on the air quality permit 21 Α. 22 because I didn't do it myself. I don't know how to do 23 it. 24 Thank you. Q. 25 I call -- you may come down, I call MR. SNEED:

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 339 May 6, 2019

Ī		141ay 0, 2017
1		Lynn Carmichael.
2		LYNN CARMICHAEL, being first duly
3	identified and sworn was examined and testified as follows:	
4	DIRECT EXAMINATION BY MR. SNEED:	
5	Q.	Ms. Carmichael, if you will tell the board your name,
6		address and occupation, please.
7	Α.	Lynn Carmichael. My address is 15 Dansford, Arden,
8		North Carolina and I'm a general appraiser.
9	Q.	And what sort of qualifications do you have as an
10		appraiser?
11	Α.	I am a North Carolina general certified appraiser and I
12		have the MAI designation through the Appraisal
13		Institute.
14	Q.	Is that the American Appraisal Institute?
15	A.	Yes, it is and the MAI designation is the highest
16		designation a general appraiser can get.
17	Q.	And how long have you had that designation?
18	A.	I've had that designation approximately five years.
19	Q.	Have you who do you do appraisals for?
20	A.	My clients include most of the banks in Western North
21		Carolina. Some of the insurance companies, lawyers,
22		accountants and private citizens.
23	Q.	And do they regularly rely on your appraisals?
24	Α.	Always.
25	Q.	Have you ever testified in court as an expert

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 340 May 6, 2019

appraiser? 1 2 Α. Yes, I have. 3 Can you tell me whether or not you were engaged to do a 0. 4 study on the effect of asphalt plants on adjacent property values? 5 Yes, I was. 6 Α. Did you do such a study? 7 0. 8 Yes, I did. Α. Let me show you Exhibit -- and would you tell me how 9 Q. 10 you did that study? 11 Α. What I did is I took a look at the website for the --12 for the pavers association and took a look at what 13 plants were operating in Western North Carolina. And I 14 took the seven plants that were within closest 15 proximity to the subject site and that included plants in Henderson County, Buncombe County, Transylvania 16 17 County and there was one in Burnsville also. And what I did was I took a look at with that -- with those 18 19 plants I took a look at the mean and median values of 20 residential property within a half acre, within a half mile, one mile and five-mile radius. And since --21 since the area of the site includes industrial 22 23 properties, residential properties, a mixed use, I also 24 took a look at a control site within close proximity of 25 each asphalt plant and I also took a look at the mean

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 341 May 6, 2019

and median values of the control site within a half 1 2 mile, one mile and five-mile radius. And then I analyzed the difference between the mean and median 3 4 values between the half mile, one mile and five-mile radius. And I -- then I took a look at the difference 5 between the values, what percentage difference between 6 the asphalt plant and the control site. And --7 8 0. And the control site was another site which was a 9 industrial site? 10 It was another site within close proximity to each Α. 11 asphalt plant that I analyzed that had the same sort of 12 makeup as the subject site permanently has. 13 And what did your analysis show? Q. 14 My analysis showed that there was no impact on the Α. 15 residential values with the -- because of the asphalt 16 plant. 17 Q. So --No negative impact. 18 Α. 19 No negative impact. And did you do further follow-up Q. 20 studies on the Rogers asphalt plant in Hendersonville? 21 Α. Yes, I did. 22 0. And what did you find? 23 Well, what I did --Α. 24 Tell the board what you did first. 0.

25

Α.

Sorry?

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 342 May 6, 2019

Q. Tell the board what you did first.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

A. Okay. What I did, is that plant was constructed in 2001 so I took a look at the mean values within the half mile, one mile and five-mile radius and I started in 1999 and went through to 2005 because I wanted to take a look at the impact on the median values before the asphalt plant was constructed, the year it was constructed and for the four years following the construction of the asphalt plant.

My findings were that for the two years preceding the construction of the asphalt plant the mean value within a half-mile radius, one year it was -- it was lower within the half-mile radius as it was -- as opposed to the one-mile radius. The following year it was higher than that half-mile radius as opposed to the one-mile radius. And if there's a negative impact on value I would expect that the value would be lower within the half-mile radius as opposed to the one-mile radius because the further you get away, if there's a negative impact from the asphalt plant the values are going to rise. So in the two years preceding the construction -- so totally opposite -- opposite results. One year it was lower then the following year it was higher within the half-mile radius as opposed to the one-mile radius.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 343 May 6, 2019

Q.

The year of construction, 2001, the medium — median values were higher within the half-mile radius as opposed to the one-mile radius which tells me that the year of construction of that asphalt plant there was absolutely no impact on the residential values within — within proximity to that asphalt plant. For the four years after the construction of the asphalt plant, and that is 2002 to 2005, there's only one year that the median values were lower within the half mile as opposed to the one mile. The other three years the median values were higher within the half-mile radius as opposed to the one-mile radius, which I have to conclude that there's no impact, no negative impact on the residential values within proximity to that asphalt plant.

- And what -- what -- was there a trend from 2001 forward?
- A. Well, certainly the values increased, you know, as time went on. But in 2005, for example, the last year that I looked at, within a half-mile radius of the asphalt plant the value -- the median value for residential properties was 172,500. And in the one-mile radius the median value was 139,750. So a significant difference in the median values in the half mile as opposed to the one mile and that significant difference tells me that

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 344 May 6, 2019

1	asphalt plant is having no negative impact on the
2	residential values.
3	MR. TUZIW: Quick question. The rate of increase,
4	before the percentage each year how it goes
5	up, was it comparable after also? Because
6	you say it went up, it had gone up a tenth of
7	a percent versus two percent, a big
8	difference. Was it comparable to what the
9	rate of increase in values were before the
10	plant went in?
11	THE WITNESS: Okay. I did not I did not study
12	that. I did not analyze the rate of increase
13	from year to year. I just took a look at the
14	difference in the values between the half
15	mile, one mile and five-mile radius.
16	MR. TUZIW: So you're saying it wasn't a
17	significant impact, we don't know the true
18	impact because we don't know whether it
19	continued its trend going up or if the trend
20	slowed down, staggered after?
21	THE WITNESS: Well, I would I would if there
22	was a negative impact from the plant, the
23	asphalt plant, I would expect to see lower
24	values within the half-mile radius as opposed
25	to the one mile and five-mile radius.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 345 May 6, 2019

1	MR. TUZIW: Lower values is a relative term.
2	You're looking at this was 2001 to 2005.
3	Those were the years the exuberance going up
4	to the or burst; things were growing
5	rapidly, it didn't matter what you did
6	everything was going up, if you throw money
7	at it, you made money. The question is, did
8	the rate of increase taper off or did it stay
9	at that continual upward trend?
10	THE WITNESS: Well, if if I take a look at
11	2001, the year that the actual plant was
12	constructed the median value within a half-
13	mile radius of the plant was 139,000. By
14	2005 it was up to 172,500. Within a one
15	and that's within the half-mile radius.
16	MR. TUZIW: Okay. I'm doing math in my head.
17	Unlike him, I don't have that problem.
18	THE WITNESS: Well, I can't do math in my head, I
19	need my calculator. But that's a significant
20	increase, significant. Within the one-mile
21	radius for the year 2001 the plant the
22	year the plant was constructed, the median
23	value was 110,000. By 2005 that increased to
24	139,750. So a significantly lower increase
25	within the one-mile radius as opposed to the

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 346 May 6, 2019

	•
1	half-mile radius, which again, if there was a
2	greater increase on that over that time
3	period, within the half-mile radius as
4	opposed to the one-mile radius tells me that
5	there's no negative impact on the residential
6	values resulting from the asphalt plant.
7	MR. TUZIW: Okay. I got my numbers.
8	MR. SNEED: That's all I have.
9	CHAIRMAN KIEHNA: If it's all right, it's 20
10	minutes to 8:00; I think folks would be ready
11	for a break and then we will come back to
12	questions. Ten-minute break.
13	(WHEREUPON, the hearing recessed at 7:40 p.m. and
14	reconvened at 7:58 p.m.)
15	MR. SNEED: I've got a couple more questions if
16	you don't mind, Madam Chair.
17	CHAIRMAN KIEHNA: Please.
18	BY MR. SNEED:
19	Q. So in doing the analysis, the initial analysis, how
20	many properties, individual properties did you look at?
21	A. 7,606 in total.
22	Q. And then doing your subsequent analysis how many
23	properties did you look at?
24	A. There were 832 properties within that final
25	geographical area.
ĮĮ.	

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 347 May 6, 2019

- Q. And based upon those analyses, do you have an opinion as to whether or not this asphalt plant will be detrimental to property values around it?

 A. Based on my analysis, no, there will be no detrimental
 - A. Based on my analysis, no, there will be no detrimental impact on residential property values because of the asphalt plant.
 - Q. Thank you.

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

MR. TUZIW: I have a question. Do you have an analysis on something that's more current than 14 years ago?

THE WITNESS: Well, my -- my initial analysis is current, okay. I just went back -- the primary analysis I did was current, just based on current values within the one year immediately preceding the date I looked at this and that was April 4th, so -- of 2019. So I went from -- and that's when I did the initial analysis was April 4th, 2019. went back exactly one year and did a one-year analysis on the half mile, one mile and fivemile radius on each asphalt plant and each The only reason I went control property. back and did a historical look at the plant at 2700 Asheville Highway is so that I could take a look at the median values within the

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 348 May 6, 2019

1	three radiuses prior to the construction of
2	the asphalt plant and then after the
3	construction of the asphalt plant.
4	MR. TUZIW: Okay. So I'm confused because you
5	gave us detailed figures of property values
6	from '99 to 2005, but you're saying this is a
7	current study as of 2019
8	THE WITNESS: Okay
9	MR. TUZIW: I'll get my question if you'll give
10	me a chance.
11	THE WITNESS: Sorry.
12	MR. TUZIW: Do you have historical values and
13	property values more current than dating back
14	to 2005 that you can give us detailed numbers
15	to instead of just saying it didn't show any
16	decline? I want the same numbers I got
17	before for a time period more relevant to
18	where we are today.
19	THE WITNESS: The initial study I did looked at
20	seven asphalt plants and control property
21	within close proximity to each asphalt plant.
22	And for that study I took a look at I did
23	that study on April 4th, 2019, and I took a
24	look at the mean and median values for all
25	sales recorded in the MLS for the one-year

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 349 May 6, 2019

1	period immediately prior to the date of my
2	study. So I took a look at April 5th, 2018
3	through to April 4th, 2019 for each of the
4	seven asphalt plants and each of the seven
5	control properties. So all those numbers are
6	current right now.
7	MR. TUZIW: So you can only give me detailed data
8	of property values for one year, '18 and '19?
9	You can't tell me what the values were in '16
10	through '19 so I I want historical chart
11	of how the values change like you did in the
12	'99 to '05, can you tell me what they were
13	one and two years before the plant and what
14	they were for the four years after the plant.
15	I want to know more current data similar to
16	that in reference to today's economic
17	environment, not the numbers from when
18	everything just went bunkers no matter what
19	you did. I mean, back then it was hard to
20	lose money; I'd really be stupid to lose
21	money. Everything was going crazy. And then
22	2008 hit and the economy went down because of
23	all the mortgage problems.
24	THE WITNESS: True. The reason the reason I
25	took a look at 1999 to 2005 for that one

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 350 May 6, 2019

specific plant was just to take a look at
what happened prior to construction of the
plant and what happened after construction of
the plant. And the study of the seven plants
is based on current numbers and it was just
to take a look at, is there a negative
impact. And to take a look at if there's a
negative impact, yes, you can go back one
year, three years, five years, whatever the
case may be, but if I'm taking a look at
seven different plants, if I take a look at
one year I'm going again, I took take
a look at seven different plants, I'm going
to get a random sampling of what's happening
with the values. And if the random sampling
of those values shows that there's no
negative impact, there's no real purpose to
go back another year and another year and
another year. You would just assume that
it's going to show the same pattern of
values.
MR. TUZIW: So what
THE WITNESS: I could I could, yes
MR. TUZIW: So what was the purpose of going back
in 2005 for four years if there was no reason
to get a random sampling of what's happening with the values. And if the random sampling of those values shows that there's no negative impact, there's no real purpose to go back another year and another year and another year. You would just assume that it's going to show the same pattern of values. MR. TUZIW: So what THE WITNESS: I could I could, yes MR. TUZIW: So what was the purpose of going back

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 351 May 6, 2019

1 2 THE WITNESS: Okay --If there was no reason with just a 3 MR. TUZIW: one-year study which only can show at best an 4 anomaly of what a 12-month period could be, 5 what was the purpose of going back and doing 6 a four, five and six-year study back from '99 7 8 to '05 that you don't have the same reason to do it here now? Because I still am sitting 9 10 here going, you're giving me numbers on one 11 year and you want me to be able to determine 12 whether property values are affected by 13 asphalt plants based on a 12-month span? 14 mean, if we can't even go through a regular 15 cycle of economics without it being two, three or four years for the President being 16 17 in and how that affects just -- just Congress changing every two years affects our economy. 18 19 So how can I tell a one-year sampling is 20 going to give me if you can't tell me 21 anything more than that when I know for a fact that just the generalization of how the 22 23 economics works? There's just no way you can 24 say something works in just 12 months. 25 can tell me in a one-year span, I know what

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 352 May 6, 2019

1	it's going to do? I mean, these plants can
2	cannot affect property values. Your study
3	back in '99 to '05 covers a six-year span,
4	gives me numbers where I can see a trend.
5	Are you going to give me month-by-month
6	numbers now since you only have 12 months
7	here in your study so I can see a trend?
8	THE WITNESS: The reason I took a look at one year
9	is my rationale for this study was that if
10	there was a negative impact on value because
11	of an asphalt plant, then I would see the
12	lower values within a half-mile radius and
13	then values spiking within the within a
14	one mile and then again within the five-mile
15	radius. And if I see that on a consistent
16	basis then I can conclude that there is a
17	negative impact because of the asphalt plant.
18	MR. TUZIW: How can you have a consistent basis
19	over a 12-month span?
20	THE WITNESS: Okay. If I take a look at seven
21	different properties, or actually 14
22	different properties, seven asphalt plants
23	and seven control properties, and if I see
24	that there is this pattern happening on a
25	consistent basis between all seven plants and

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 353 May 6, 2019

1	all seven control properties then I can
2	conclude that there's a negative impact.
3	However, I did not see that consistent
4	pattern. Yes, I only looked at one year, one
5	year. But one year looking at all seven
6	asphalt plants and all seven control
7	properties I should see I should see a
8	pattern of lower values within the half-mile
9	radius of the asphalt plant and higher values
10	as that radius goes out and I should see a
11	more level change in values in the control
12	property. I did not see that in my study.
13	MR. TUZIW: What were those dates again?
14	THE WITNESS: It was April April 5th, 2018 to
15	April 4th, 2019.
16	MR. TUZIW: So that was right in the middle of a
17	time when our stock market was surging 15, 20
18	percent and everything else was going good,
19	housing values were increasing and once
20	again, we only have a one-year window to look
21	at.
22	THE WITNESS: But okay, yes, we have a one-year
23	window to look at; however, I if there was
24	a negative impact because of the asphalt
25	plant we would see either a decrease or much

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 354 May 6, 2019

	J /
1	less lower increase, percentage increase, in
2	the values within a half-mile radius of the
3	asphalt plant as opposed to the control plant
4	and as opposed to the one mile and the five-
5	mile radius.
6	MR. TUZIW: So you're going to sit there and tell
7	me you honestly believe that you can tell the
8	difference in how housing prices are moving
9	without even having an asphalt plant involved
10	in it in just a one-month span, I mean a one-
11	year span?
12	THE WITNESS: What I can say is that based on my
13	research the median values, mean and median
14	values within the half-mile radius of seven
15	different asphalt plants in Western North
16	Carolina did not show any negative impact as
17	opposed to the one-mile radius and five-mile
18	radius and a control plant within proximity
19	to each asphalt plant.
20	MR. TUZIW: So out of these seven plants, how many
21	of them were built after an established
22	community was already in?
23	THE WITNESS: I cannot give you a definite answer
24	on that but I can tell you the one that I
25	looked at in more detail, the 2700 Asheville

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 355 May 6, 2019

ĺ	• /
1	Highway, there were there are well,
2	there are residential properties that are in
3	all of them, let's put it that way, they're
4	in all of them. There's mixed uses around
5	all the properties I looked at. How many
6	residential properties were established when
7	the plant was built, I did not look into
8	that.
9	MR. TUZIW: So you don't know the plant affected
10	the prices like that? Because, I mean, the
11	plant's already there and people come and
12	build it's not going to affect the price of
13	the property because, hey, they knew what it
14	was worth when they went in because they knew
15	the plant was there. If they're already
16	there and then the plant comes in, that
17	affects the property. It's going to take
18	more than a year for you to really realize
19	how much that's going to affect their
20	property.
21	THE WITNESS: Sorry, I did not understand what
22	your question is.
23	MR. TUZIW: It wasn't a question, it was a
24	statement.
25	MR. BRIGGS: What information is used to start

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 356 May 6, 2019

	5 /
1	your basic, you know, where did you to gather
2	the property values from?
3	THE WITNESS: From the regional MLS. So all the
4	numbers are taken from the regional MLS which
5	
6	MR. BRIGGS: What is that?
7	THE WITNESS: It's the Multiple Listing Service
8	which is a service that brokers use to
9	advertise their property. It shows active
10	listings; it shows properties under contract
11	and it shows a historic historical data
12	from all the properties that have been sold.
13	MR. BRIGGS: So it only reflects property that was
14	actually bought and sold, correct?
15	THE WITNESS: Yes.
16	MR. BRIGGS: Okay. So if someone lived there
17	before, during or after an asphalt plant's
18	constructed but didn't know it, their
19	property didn't change hands, property didn't
20	sell, then their property is not in the ratio
21	at all?
22	THE WITNESS: No, I was just looking at properties
23	that have sold within within that time
24	period and the mean and median values of all
25	properties that have sold within each radius.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 357 May 6, 2019

1	MR. BRIGGS: Would county tax, you know, prices, I
2	mean, would that be would that reflect, I
3	know the market is different, you know,
4	property value, tax assessment value is
5	different than for a property to sale but
6	does county tax statements, do they not
7	reflect that if a property value goes up or
8	down? I know they're reassessed several
9	times in the past few years.
10	THE WITNESS: Yes. I find the MLS is a more
11	accurate reflection of what the market values
12	are because assessments are only done every
13	four years, every four to eight years,
14	reassessments are done. So reassessments can
15	be sometimes if you're looking in the
16	seventh year of an eight-year cycle, the
17	value is not reflective of the current
18	market. I find the MLS numbers are more
19	well, they're actual market values. They're
20	current sales.
21	MR. BRIGGS: Well, I'm kind of curious. So after
22	2008 a lot of property values dropped
23	considerably and I'd like to, I don't know,
24	I'd kind of like to see what a property
25	around an asphalt plant, say, the one in '99

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 358 May 6, 2019

and see it every year and see how, you know, 1 2 I know you haven't done that --I haven't done that, no, sir. And I 3 could certainly do it. I could certainly add 4 in the numbers from 2005 right up to current 5 for that particular plant so you could see 6 the numbers. 7 8 MR. SNEED: If I --(Inaudible) is about how that affects 9 MR. TUZIW: 10 the numbers because we really need to see how 11 it affects today, not how it affected back 12 then. 13 BY MR. SNEED: 14 But the first study that you did looked to see whether 0. 15 or not the closer you got to an asphalt plant whether 16 the average prices were less, is that right? 17 Α. Exactly, yes. I took a look at the mean and median 18 values. 19 And what you found was in many cases the closer you got Q. 20 to the asphalt plant, the values were up, is that 21 right, they were higher than they were half a mile 22 away? 23 Out of the seven properties analyzed, five out of the Α. 24 seven, the values were not affected at all. The values 25 were higher but often within a half-mile radius as

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 359 May 6, 2019

1	opposed to a one-mile radius.
2	Q. In some places they were higher the closer you got?
3	A. Yes, yes.
4	MR. TUZIW: Are you referring to the '99 to '05
5	study?
6	MR. SNEED: No. I'm talking about the study that
7	she did last year, that was all she did was,
8	if I understand, you looked at all the sales
9	around those plants and looked to see whether
10	or not there was a pattern with lower prices
11	close to the asphalt plant.
12	MR. TUZIW: So you're talking about the '19 '18
13	to '19 studies?
14	THE WITNESS: Yes, the '18 to '19 study where I
15	looked at seven plants and seven control
16	properties.
17	MR. TUZIW: One that's only 12 months long doesn't
18	really give an accurate assessment of what
19	longevity over time, how that affects prices.
20	THE WITNESS: It was a snapshot. It is a snapshot
21	to see
22	MR. TUZIW: It was a JPEG.
23	THE WITNESS: It is a snapshot just to see what
24	and if there was a negative impact from the
25	asphalt plant you would see a consistent

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 360 May 6, 2019

pattern; there was no consistent pattern, 1 2 absolutely not. And it doesn't matter whether it was one year or ten years, if you 3 4 don't see a consistent pattern then there's no impact from that plant. 5 BY MR. SNEED: 6 But you did, if I understood, you did see in several 7 0. 8 cases, a pattern that the prices were higher the closer you got in the half mile than they were in the mile? 9 10 Yes. Yes, in several cases it was -- the values were Α. 11 higher than half mile as opposed to a mile radius, 12 which you have to conclude the asphalt plant is then 13 not affecting the residential values if the values are 14 higher within a half-mile radius as opposed to a one-15 mile radius. Are we taking into account the asphalt 16 MR. TUZIW: 17 Those other that are further out, plant. you're not taking into account anything else 18 19 could be around them that would be affecting 20 their prices? 21 THE WITNESS: Exactly. There may be other things 22 but what I was looking at is the asphalt 23 Is there -- and if the negative plant. impact was because of the asphalt plant then 24 25 I could see a consistent pattern of the

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 361 May 6, 2019

values within a half-mile radius of each of 1 2 the seven asphalt plants be lower than the values within a one-mile radius. 3 saw that in two of the seven plants. 4 other five did not show that. There was not 5 a consistent pattern; therefore, I had to 6 conclude that there is no negative impact 7 8 because of the asphalt plant. Within the one-mile radius there may be other things 9 10 impacting it, but there's no negative impact 11 because of the asphalt plant when I don't see 12 a consistent pattern. 13 CHAIRMAN KIEHNA: Proceed. 14 BY MR. SNEED: 15 Would you be willing to total the numbers up on 0. comparing the values in the residential areas around 16 17 the Rogers plant from 2005 to 2019? Well, I will continue with this half mile and 18 Α. five-mile radius with the mean values from 2006 through 19 20 2019, year-to-date 2019. 21 MR. TUZIW: Can you give us a break point? I want to take 2008 run-up and fall apart out of the 22 23 equation. I'd really like to see that. 24 don't know what others would like to see but 25 I'd really to see about 2011 to date. That

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 362 May 6, 2019

	• /
1	kind of takes away the run-up skewing the
2	numbers and the fall off the cliff skewing
3	the numbers the other way. And I think even
4	if it was just a five or six-year, most
5	recent, but give us a better, more accurate
6	description of what today's current pricing
7	evaluations are affecting it.
8	THE WITNESS: Okay. And that is within the half
9	mile, one mile and five-mile radius of the
10	plant at 2700 Asheville Highway?
11	MR. TUZIW: You can pick whatever plant you want.
12	THE WITNESS: I will do that, absolutely. So
13	2008, or sorry, that was 2011.
14	MR. TUZIW: '11 to '19 would be great.
15	THE WITNESS: '11 to '19.
16	MR. TUZIW: That would probably be more than we
17	need, but that gets the economic disasters
18	that we've had out of the equation where we
19	can more accurately see what is actually
20	happening in our community today and how it
21	ran up to where we got to today.
22	THE WITNESS: Absolutely, I will run those numbers
23	and get them to Mr. Sneed.
24	MR. TUZIW: That would be great.
25	MR. BRIGGS: Does your information come out on a

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 363 May 6, 2019

5 ,
spreadsheet or is it
THE WITNESS: Yes, it's an Excel spreadsheet, yes.
MR. BRIGGS: Could you bring a copy of that?
THE WITNESS: Yes, I can bring a copy of that.
MR. BRIGGS: So maybe we put it on there and take
a look at it. I need visual aids, I'm sorry.
THE WITNESS: No problem.
MR. TUZIW: What's your educational background on
that?
MR. GULDEN: I object to that. That's a dig at
me.
MR. TUZIW: I'm just it isn't intended to be
directed at you. I didn't ask for eighth
grade math. I just want to know your
college. Were you a statistical what was
your major?
THE WITNESS: Business, business management.
MR. TUZIW: Emphasis on?
THE WITNESS: Personnel actually. I worked in
personnel for a number of years, but through
the getting the MAI designation, is
it'd be equivalent to a masters.
MR. TUZIW: Statistical analysis
THE WITNESS: It's a lot of that and a lot of math

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 364 May 6, 2019

I'm a math guy, that's why I'm asking. 1 MR. TUZIW: 2 CROSS-EXAMINATION BY MR. GULDEN: Just a few questions which is hard to believe, I'll be 3 But you had indicated that five out of your 4 brief. seven plants had no negative impact. What about the 5 other two, what two plants were those? 6 7 The two plants that showed a -- the two plants that Α. 8 showed a decrease, okay -- okay, let me just see here The one at the 1188 Smokey Park Highway in 9 10 Candler showed a -- the smallest mean and median values 11 were within the half-mile radius and there was a spike 12 to the one-mile radius which is what I would expect to 13 see if there's a negative impact on value. But if it's 14 specific to the asphalt plant I would expect to see 15 that for all seven asphalt plants. I saw that for only 16 The other plant was the one at 5057 Grovestone two. 17 Road in Black Mountain where there is significant industrial development around that plant too. 18 19 Like a cement plant? Q. 20 Α. Yes. 21 That's around that one. And the quarry --0. 22 Α. Yes, and the quarry -- and the quarry. 23 -- is also around that one. ο. 24 And there's an industrial property that's approximately Α. 25 four acres of industrial building.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 365 May 6, 2019

Q. You understand that that Black Mountain plant might be more closely aligned to this facility with the rock quarry and the cement plant and 137, 132 acres of industrial site right there. So why didn't you use that one as your statistical analysis?

1

2

3

4

5

22

23

24

25

- A. Okay. I used the 2700 Asheville Highway because it was built in 2001, so it was more recent and easy to take a look at the mean and median values surrounding the preconstruction and the post-construction of the plant.
- 10 Q. Do you understand that up in Avery County there is an asphalt plant built in 2001 also, did you look at that one?
- A. No. The Avery County plant did not show up, was not included in my analysis.
- 15 Q. Considering where the location of the asphalt plant is
 16 in Hendersonville, wouldn't the Avery County plant have
 17 been a better indicator of whether property values are
 18 going to increase and decrease based upon Madison
 19 County, more closely aligned to Avery County as opposed
 20 to Henderson County? Did you consider that in your
 21 analysis?
 - A. I do not have access to the Avery County MLS. Okay.

 So I could not look at Avery County information. I had access to all the MLS for the properties I looked at and could look in detail.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 366 May 6, 2019

- Did you know -- did you have access to the tax records 1 Q. 2 for Avery County that you could have looked at? 3 I could, yes; however, that would be quite a laborious Α. 4 task to compile all the property, assessed values within each radius. 5 What about property that is within 800 feet of the 6 Q. 7 asphalt plant as is the case in this situation? Could 8 you have done that for the Avery County facility? I could but as I said earlier, the assessed values most 9 Α. 10 often are not reflective of the current market value. 11 Quite often they're historical because they're only 12 done every four to eight years and I don't know how 13 often they're done in Avery County, but typically in 14 the more rural counties they're only done every eight 15 So the MLS, the actual sales number give a more years. accurate reflection of what the market value is. 16 17 Q. And that goes to my -- you would classify Madison County as a rural county, correct? 18 19 I would, yes. Α. 20 And Henderson County is not nearly as rural? Q. 21 Α. Not nearly as rural. 22 Avery County, rural or urban? 0. 23 Α. Rural.
 - analysis to view properties similarly situated in rural

So wouldn't it have been more appropriate in your

24

25

Q.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 367 May 6, 2019

communities within 800 feet as is the case here to

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

conduct your study? Wouldn't that have been better? No, I don't believe so because I'm doing a -- I'm not Α. doing -- I'm doing a general assessment to see if there's a negative impact on values for residential properties within proximity to an asphalt plant. doesn't matter whether I'm in Avery County, Henderson County, Buncombe County or whatever county I'm in, if there's going to be a negative impact on values from an asphalt plant it's going to show up in any county anywhere. And given the same mix as was -- as is the case in the Madison County prior to the construction of the asphalt plant, that's why I took a look at control properties and by taking a look at control properties within proximity to each asphalt plant, that takes out the differences between Avery County as opposed to Buncombe County or Henderson County. I took a look at each asphalt plant and the control properties within proximity and took a look at those plants. So within each grouping there was no consistent pattern.

Q. You're saying that there -- you treated all market drivers equally and said, Henderson County, Avery County, Madison County, they're all equal without considering the move for retired folks to go to Hendersonville, the move for northern people to come

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 368 May 6, 2019

and move into Buncombe county. You're saying that
there are no different market drivers for each one of
these areas that you studied?

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

- I'm not saying that, no. I'm absolutely not saying Α. I'm saying that I took a look at asphalt plants, what is the impact of an asphalt plant as opposed to a control property within proximity and is there a negative impact on value because of that asphalt plant. And that -- that is -- and I took a look in Western North Carolina -- Western North Carolina. So it is -yes, I would say that there are some -- there are differences between Madison County and Buncombe County and Henderson County, absolutely. Okay. But I took a general look at the impact of an asphalt plant on residential values within close proximity. And my study showed that overall there were -- there was no consistent pattern of a negative impact on the values; therefore, I conclude that the inclusion of an asphalt plant given the current makeup, there was no impact, negative impact on the values.
- Q. Except if your asphalt -- you're buying property on Smokey Park Highway or in Black Mountain, then it has a negative impact?
- A. There could have been other things in there, okay. If the negative impact was because of the asphalt plant

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 369 May 6, 2019

- specifically then I would have seen that same pattern
 in all seven properties I looked at. Since I only saw
 it in two, not all seven, I have to conclude that the
 negative impact was not because of the asphalt plant.
- Q. What was your control property? You keep talking about this control property? Is that --
- I took a look at each -- for each asphalt plant, I took 7 Α. 8 a look within proximity of that asphalt plant, what is another area that has the same type of makeup that the 9 10 site currently has. None of them had quarries. 11 tell you that. The quarries were mostly right by the 12 asphalt plants. But I took a look at something with 13 mixed use, something that had industrial, residential 14 and commercial uses all within a close area, and that 15 was my control property. So industrial, commercial, 16 residential uses all together.
- Q. Does the Rogers plant have a concrete plant close to it?
- 19 A. I'm not -- I can't tell you that right off the top of my head.
- 21 Q. Is the Rogers plant located on a quarry site?
- A. I can't tell you that. I just looked, took a look at that address and in the radiuses. I did not take a look at the specifics of what is in that plant. In my control property I took a look at, it had to include

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 370 May 6, 2019

industrial, commercial and residential. 1 2 Q. You didn't get any more specific than the half mile, mile and five-mile radius such as around any of these 3 plants, did you look at the impact that the asphalt 4 plant will have on properties that are within 800 feet 5 of that site? 6 No, I did not look at the 800 feet, no. 7 Α. 8 Do you know how close the properties are to the 0. proposed site here in this application? 9 10 No, I don't. Just from listening, that's the only Α. 11 knowledge that I have. And you're aware that in Avery County the facilities 12 Q. 13 that were there next to the Maymead plant had become 14 economically obsolete? You're aware of that, aren't 15 you? No, I'm not aware of that. 16 Α. 17 And you're aware that in Avery County on a public Q. record, the tax assessor's office, I can hand it up to 18 19 you, that talks about one of the --20 I object to him introducing evidence MR. SNEED: she doesn't know anything about. 21 It's public record. 22 MR. GULDEN: It's like the 23 CDC reports, it's a public record. I'm just 24 handing it up, see if she knows about it, 25 haven't even asked my question yet. Sorry,

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 371 May 6, 2019

1	Madam Chair, I haven't let you rule. I
2	haven't let you rule.
3	CHAIRMAN KIEHNA: She has already stated that she
4	
	has no knowledge of Avery County from the MLS
5	perspective.
6	MR. GULDEN: And this is not the MLS perspective.
7	This is public record, just like the DAQ
8	permits for the two asphalt plants that were
9	admitted and I'm asking her if she knows and
10	if she has seen what this document is going
11	to say and I'm
12	CHAIRMAN KIEHNA: Proceed to see if she knows
13	anything about it.
14	BY MR. GULDEN:
15	Q. Do you know anything about this document which is from
16	Avery County Clerk of Court indicating that one of the
17	facilities next to the Maymead plant says that Maymead
18	plant ruined this property? You see that?
19	A. Okay. That's certainly what this document says.
20	Q. Do you know how close that property was to the Maymead
21	plant?
22	A. No, I'm not aware of that property. I have not looked
23	at that property. I have not studied that property. I
24	have no knowledge of that property.
25	Q. Those would be my questions.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 372 May 6, 2019

we
)
we
lle
? I
m
cts
•
у•

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 373 May 6, 2019

(WHEREUPON, Applicant Exhibit Number 35 was marked 1 2 for identification and passed to the witness 3 for review) 4 REDIRECT EXAMINATION BY MR. SNEED: 5 What is this Exhibit 35? I should have shown you that 0. earlier. 6 7 That exhibit is what I used to determine what plants I Α. 8 was going to look at. It's the map from the 9 Association of Asphalt Pavers association. MR. SNEED: So we'd offer Exhibit 35. 10 11 0. And if I understand, you looked at the Burnsville? I tried to look at the Burnsville one but there was no 12 Α. 13 information around it. I could not get enough 14 information to draw any conclusions. 15 You looked at Weaverville? Q. 16 Α. Yes. 17 Q. Candler? 18 Α. Yes. Waynesville? 19 Q. 20 Α. Yes. 21 Pisqah Forest? 0. 22 Α. Yes. 23 And two -- three in Hendersonville? 0. 24 Α. Yes. We'd offer 35. 25 MR. SNEED:

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 374 May 6, 2019

Ī	• /
1	(WHEREUPON, Applicant Exhibit Number 35 was
2	offered into evidence)
3	Q. That's all I have.
4	MR. GULDEN: Nothing further from me.
5	CHAIRMAN KIEHNA: Conclude?
6	MR. SNEED: Yes, ma'am.
7	MR. GULDEN: You done Mr. Sneed?
8	MR. SNEED: Yes. Yes, that's all the evidence I
9	have at this time.
10	MR. GULDEN: We would call Doug Bruggeman briefly.
11	CHAIRMAN KIEHNA: Would you state your name?
12	MR. BRUGGEMAN: Doug Bruggeman, I live at 606
13	Coates Road, Marshall, North Carolina.
14	DOUG BRUGGEMAN, being first duly
15	identified and sworn was examined and testified as follows:
16	DIRECT EXAMINATION BY MR. GULDEN:
17	Q. Doug, could you state your address again for the board?
18	A. 606 Coates Road, Marshall, North Carolina.
19	Q. Are you familiar with the asphalt plant that we're
20	talking about here?
21	A. I'm afraid so.
22	Q. Yeah, how close is your home to that property?
23	A. It adjoins it. It's my neighbor and the proposed
24	location of the plant based on my GIS analysis is 620
25	feet.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 375 May 6, 2019

From your property line? 1 Q. 2 Α. Property line. How close is it to your house? 3 0. I didn't do that analysis, I don't know. 4 Α. 5 But from your property line the proposed site is 600-0. something feet? 6 7 Right. Α. 8 Tell me a little bit about your education. 0. I've got a bachelors and masters in environmental 9 Α. 10 I have a PhD in fish and wildlife biology biology. 11 with a focus on ecological economics and specializing 12 estimating the impact of environmental hazards on 13 natural resource boundaries. I also have a real estate 14 license in North Carolina. 15 Tell me briefly what ecological economics is. Q. 16 So ecological economics is focused on incorporating the Α. value of the natural resources into traditional market 17 mechanisms. 18 So understanding how hazards degrade economic values or benefits through economic value. 19 So 20 externalities, things that are not normally included 21 within market decisions. A negative externality would 22 be pollution from an asphalt plant; a positive 23 externality would be the French Broad River. 24 You also are a licensed real estate broker or agent? 0.

I am the provisional broker here --

25

Α.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 376 May 6, 2019

That's different than an MAI appraiser? 1 Q. 2 Α. Correct. 3 Are you familiar with how to research MLS and how to 0. 4 research sale prices of properties? 5 Indeed, I do it all the time, yeah. Α. And ultimately you are going to give an opinion about 6 Q. the value of your property. But in determining the 7 8 potential impact this asphalt plant would have on your property did you do any analysis, market studies by 9 10 pulling data? 11 Α. I did indeed. I went into the Multiple Listing System 12 into the Statistical Analysis Module, SAM, and 13 downloaded data for asphalt plants for closing price 14 within one mile of an asphalt plant. 15 And did you create a report related to the -- well, is Q. it just statistical data that you pulled? 16 17 Α. I analyzed the data. I conducted a Welch's t-test to 18 incorporate -- to account for the nonparametric nature 19 of data, you know, means are not reliable in this case 20 so it would be a median accounting for differences in 21 variation in sample sizes. Is this part of something that you have done or that 22 Q. 23 you are able to do because of your education, your PhD 24 and your real estate license? 25 I've had five graduate courses

Mostly my PhD.

Α.

Yeah.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 377 May 6, 2019

in statistics and did a post-op in quantitative 1 2 simulation modeling in Germany. And I'm going to hand to you what I'm going to 3 0. 4 mark as Exhibit 4. (WHEREUPON, Opposition Exhibit Number 4 was marked 5 for identification and passed to the witness 6 7 for review) 8 And see if you can identify this for the board. 0. So this is the analysis I did of property values 9 Α. 10 with the -- radius of five plants in Western North 11 Carolina. And so basically what I did is that I looked 12 at all closing events within 15 years, within the past 13 15 years within one-mile radius of an asphalt plant and 14 we called around to make sure all those asphalt plants 15 had been in operation for at least 15 years. We had a hard time getting employees of an asphalt plant on the 16 17 phone to ask them questions. Were you able to determine whether all of these asphalt 18 ο. 19 plants that you did your report on had been in 20 existence for the last 15 years? 21 Yes, we did verify that. And so I did an analysis Α. comparing those closings over 15 years with closings 22 23 for the entire zip code. I did not choose control 24 sites because I knew how easily it would be to criticize the selection of control sites. 25

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 378 May 6, 2019

- Q. And in pulling your data tell the board what you did and what you found.
 A. So I pulled data on closings for each month over the
- last 15 years and I pulled it into the R programming
 language and then ran the Welch's t-test to compare the
 distributions to determine if the distributions were
 actually significantly different or not. I plotted
 those distributions for those five plants and found a
 significant difference in four out of the five plants
 due to the presence of an asphalt plant
- Q. And when you say you found a significant difference, you found a significant difference in what?
- 13 A. That the closing price within one mile of an asphalt
 14 plant, in the four out of five, was significantly less
 15 than the closing price per zip code.
- Q. And so looking at that -- do you have your report there in front of you?
- 18 A. I do indeed.
- 19 Q. When you looked at the statistical depreciation of an area within a half mile of the asphalt plant for the Weaverville plant, what did you find out about the decrease in property values?
- A. So -- so in Weaverville we found a 12.7 percent
 decrease in property values within one mile of the
 asphalt plant. In Enka we found a five percent

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 379 May 6, 2019

decrease in property values. Hendersonville found a 24 1 2 percent decrease in property values and Black Mountain a 13 percent decrease in property values and finally in 3 4 Weaverville a 24 percent decrease in property values across those 15 years. 5 Is that Weaverville or Waynesville? I know your 6 Q. 7 eyesight is bad. 8 MR. TUZIW: What page of the report are you on? 9 Oh, I'm sorry. Thank you, thank you, that's Α. 10 Waynesville. Thank you for that. 11 MR. GULDEN: I believe that's 2 and 3, yeah. 12 So yeah, so Weaverville was 13 percent. Α. 13 And is this the Hendersonville plant that you found Q. 14 that had a 23 or 24 percent decrease in value related 15 to the asphalt plant, is that this Rogers plant that the appraiser, Ms. Lynn Carmichael was just talking 16 17 about? Well, it has the same address. 18 Α. 19 Hendersonville, like 2700 Asheville Highway. 20 Can you explain how you found a decrease over a 15-year Q. 21 period wherein she gave the opinion that it had no effect? 22 23 I can't explain it because I don't know her methods. Α. 24 I'm very concerned about the methods she chose. 25 use of control sites, it leads to selection bias. So I

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 380 May 6, 2019

- can't explain why she (audience member coughs).

 And so based upon the information that you gathered
- related to these asphalt plants that have been in
 existence over a 15-year period, what effect do you
 think it will have on your property if this proposed
 asphalt plant is approved?
- 7 A. It will daily impact my property. My property went on
 8 the market in October. I had an offer right away and
 9 that didn't work out and shortly after that the asphalt
 10 plant was announced and I went from getting two calls a
 11 week on our property to none.
- 12 Q. And have you -- what effect though do you think, as it
 13 relates to value of your property, what effect will
 14 this asphalt plant if approved have on the value of
 15 your property?
- 16 A. It will decrease my property value by at least 56

 17 percent based on the Avery study and if we were able to

 18 get a buyer I will reach out to Lynn for the appraisal

 19 (laughter).
- Q. You indicated that your house was up for sale recently.

 Have you had a contract for sale? And what was it

 contingent on it if you did?
- 23 A. I did have a -- we had to get it under contract right
 24 away which means to price it aggressively because I'm
 25 an entrepreneur try to stay competitive and, you know,

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 381 May 6, 2019

- the equity in my home was an important part of that competitiveness but that buyer last minute asked for 11,000 off and it was an as-is contract so I told him that would not work. And then shortly after that the asphalt plant was announced.
- 6 Q. And have you had any buyers or --

- A. Yeah. So since then I did have one buyer get pretty aggressive with me, really interested in it, wanting to buy it for cash but they were concerned about the asphalt plant. It's been very public. And so they are waiting to see how this goes.
 - Q. And so in your report if you can explain just briefly if you haven't already, explain briefly to the board how did you come to the statistical conclusion that asphalt plants, these asphalt plants related to these five sites have a decrease, a negative impact on property values, surrounding property values.
 - A. Yeah. So like I collected the data and I compared the distributions using Welch's t-test, which is nonparametric test, it accounts for differences in sample sizes and differences in variation. So if you're not accounting for differences in the distribution of the data, you really can't be confident of the differences that you're concluding.
 - Q. And all of that is way over my head but what -- so is

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 382 May 6, 2019

it a program, Welch's t-test? 1 2 Α. Welch's t-test, you know, put it into Google, Wikipedia 3 No, no, I'm asking you is it a computer-based --4 Q. 5 So it's a -- so I work in the R programming Α. language as a professional --6 MR. TUZIW: Can I ask -- can I ask you to slow 7 8 down just a little bit? I know, it's getting late and --9 THE WITNESS: 10 Yeah, thank you, that would make me MR. GULDEN: 11 see that he was going so fast --12 MR. TUZIW: Hear -- hear how fast I'm talking? 13 That's how fast I listen. 14 THE WITNESS: All right. My apologies. 15 So start again. Q. Right. So I started -- I work with the R programming 16 Α. 17 language. It's kind of like SAS but -- and then you 18 put the data in there and you call to a Welch's t-test 19 and Welch's t-test organizes the data to --20 Slow down. 0. -- to compare the distributions so it looks at all the 21 Α. data and looks at the distribution of the data, the 22 23 variation. And then makes a comparison between the two 24 and discerns whether it's a significant difference or 25 not.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 383 May 6, 2019

Q. And did one of the -- did you do an analysis on which one of these plants is more closely aligned or similarly situated to this site, Madison site?

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

- So because the differences that I Yeah, for sure. Α. found across the sites, there are big differences in the impact of asphalt plants on property values. And so that reflects market differences across our region, So then I went back to the MLS and plugged the data on metrics of the market demand, like how hot is the market, what's the demand within the market. things like the days to close, percent of asking price, and also the months of supplied homes on the market and compare -- I added Marshall -- Marshall, Madison into the mix of the other five plants and graphed those distributions and also then did a crucible balls test to determine the differences among those market demand trackers.
- Q. And you're talking all this language. I don't think anybody understands other than you, this crucible ball test, whatever you just said. Is that, again, another program that you can use or that you have used in your education to just put in statistics or data to come up with the answer?
- A. That's correct. It's a method within the R programming language you can use to test the differences in median

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 384 May 6, 2019

values across treatments and treatments in this case 1 2 are the real estate markets to test the hypothesis that all real estate markets are the same in terms of their 3 market demand and I was able to reject that hypothesis. 4 It's showing that the markets vary greatly in terms of 5 market demand. And then from there I went in and did a 6 7 pairwise comparison to figure out which markets differ 8 and by how much and then found how different Marshall is from Hendersonville and Buncombe County markets. 9 10 And when you pulled this data and you found that they Q. 11 were different, were the Hendersonville and Buncombe 12 County markets different than your Madison County

market as it relates to real estate values or the property?

13

14

- 15 Yeah. So the Hendersonville and the Buncombe County Α. market demand is very different from Marshall market 16 17 demand based on those metrics which -- as I described 18 in my report.
- 19 And so which plant was more similar to the proposed Q. 20 You may have already said it. site?
- So Waynesville was very similar in terms of 21 Α. Yeah. metrics of market demand and I showed that using the 22 23 pairwise comparison called a Dunn's test.
- 24 And what was the reduction in the property values 0. 25 around the Waynesville asphalt plant?

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 385 May 6, 2019

1 Α. 23.9 percent. 2 Q. And if there's a reduction in property value, knowing that you're a real estate licensed -- does that also 3 4 have a reduction in tax value that the property is 5 assessed? Yeah, for sure. I would argue that all property 6 Α. 7 owners, 333 property owners within one mile of the 8 plant, will be impacted by building a plant and we're going to be very vocal about having our property being 9 10 reassessed to reduce the tax value. So I took that 24 11 percent and applied it -- I took that, I got the GIS 12 data from Jeff in Madison County and looked at the 13 appraised value so there's 8.8 million --14 What page are you looking on right here? Q. 15 So let's see, this is --Α. 16 Page 7? Q. 17 So the -- the total appraised tax value within one mile Α. of the proposed plant is 3.7 million. 18 That's the 19 appraised value. That's not the market value as Lynn 20 -- that's where we highlighted it, I took that as the economic value. So but if you were take that 24 21 percent and apply that to the personal loss of income 22 23 that those 333 homeowners will enjoy, that's a loss of

\$8.7 million of people, citizens, also trying to stay

24

25

competitive.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 386 May 6, 2019

- 1 Q. And those 300 that you're talking about to the board,
- are the ones, the 300, in a half mile radius around
- 3 this proposed site?
- 4 A. A mile radius, 333 properties within a mile radius.
- 5 Q. And what governmental entity is going to lose on the --
- if the appraised values are lower?
- 7 A. So then I applied that to -- using the MLS rate for
- 8 Madison County and that was a loss of \$45,624 per year
- 9 in tax revenue loss per year.
- 10 Q. To Madison County?
- 11 A. To Madison County.
- MR. GULDEN: That would be all.
- 13 CROSS-EXAMINATION BY MR. SNEED:
- 14 Q. So Mr. Bruggeman --
- 15 A. It's Dr. Bruggeman.
- 16 Q. Doctor, I'm sorry. You're saying that it would be a 56
- 17 -- what percent decrease in --
- 18 A. 23.9 percent.
- 19 Q. 23.9 percent and you derived that from Waynesville?
- 20 A. Yes, sir.
- 21 Q. And what you did was you looked at the value of
- 22 properties within a mile of the Waynesville asphalt
- 23 plant?
- 24 A. Correct.
- Q. And then you compared it to the entire 28786 zip code?

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 387

- May 6, 2019 That's correct. 1 Α. 2 Q. And what did you do, just average or mean, take the 3 mean of the properties within a mile, mean value of the 4 properties within a mile? 5 So for -- within Madison County, I did --Α. No, I'm talking about Waynesville. 6 Q. 7 And so in Waynesville I looked at -- so I got a Α. 8 difference by comparing the zip code values to the mile within the Waynesville plant, that's how I got the 9 10 difference. 11 0. So you took the mean of the values in the zip code and the mean of the values in the one mile? 12 13 I -- the median, I took the median because it's more Α. 14 rigorous. So it's a median. Median, okay. And that means half Q. the values were above and half the values were below?
- 15 16
- 17 Α. That's correct, within a sample point.
- And what's a sample point? 18 0.
- 19 So I looked at on a per monthly basis over 15 years. Α.
- 20 And so within each month I selected the median from
- within each month. 21
- And then what did you do with the 15 years' worth of 22 Q. 23 monthly medians?
- 24 I then analyzed those using a Welch's t-test and the R Α. 25 programming language.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 388 May 6, 2019

R programming? 1 Q. 2 Α. Yes, sir. You have to spell that out for me. 3 0. 4 Α. It's R then programming. 5 R programming. And it showed that the monthly prices, 0. medians, for the monthly prices within a month and it 6 7 compared those to the monthly prices, median prices for 8 all of the other homes sold in the zip code? 9 Α. Right. 10 And so you compared them with a Waynesville Country Q. 11 Club homes and all the homes built on the mountain out behind -- whatever that little town is out there, all 12 13 the mountaintop homes and everything? 14 I looked at the entire zip code so I would not be Α. 15 criticized over selection bias by picking control sites. 16 17 Q. And you compared the median prices in the zip code with 18 the median prices within a mile? Α. That's correct. 19 20 And you found that there was --Q. 21 24 percent difference. Α. 23.9 percent difference? 22 Q. 23 Α. Yes. 24 Now, can you hear the quarry when it's running? Q.

25

Α.

Absolutely.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 389 May 6, 2019

- Q. Can you hear it only when there's one or do you hear it when there's just one or whether there are two?
- 3 A. Like, what do you mean one or two --
- 4 Q. They've got two crushers in there.
- A. You know, I hear noise. I'm not able to determine
 whether it's one or two crushers. You know, I know
 it's louder sometimes; it's not as loud other times.
- Q. And you knew that was there when you bought this property?
- 10 A. I knew the quarry was there for sure. I did not know
 11 that they're looking at a cement plant or that an
 12 asphalt plant was proposed and I could have definitely
 13 sued the real estate agent.
- Q. So you think that the quarry is some detriment to your property?
- 16 A. The quarry doesn't help but I think the asphalt plant is a bigger detriment.
- 18 Q. Why is that?
- 19 A. Because of the contamination associated with asphalt.
- 20 Q. What contamination?
- A. Like there's pH's, there's sulphur, there's some heavy
 metals. So I'm concerned about health effects. I do
 have asthma. I do like to run around when I have to
 work on my property. Then my major concern is that
 smokestack ends basically at the elevation my property

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 390 May 6, 2019

So you think back to the Industrial Revolution 1 begins. 2 the advents of smokestacks was an innovation because houses were getting dirty and there's a lot of 3 4 contamination. So in this case a smokestack is no innovation because it's ending right where my property 5 elevation starts. 6 And how much higher are you than this property? 7 Q. 8 Α. Well, based on Mr. Reed's testimony, it's right at the 9 elevation. The smokestack would end right at where my 10 -- at where my hill is to my property. 11 0. So you're not -- you're above the quarry property? 12 I am indeed. Α. 13 How much? Q. 14 I don't know. How tall is the smokestack? Α. Fifty feet, 40 feet. 15 Q. 50 feet. 16 Α. Okay. 17 You think that you'll be right at that level? Q. Based on Mr. Reed's testimony, yes. 18 Α. 19 But your property has appreciated guite well with being Q. 20 next to the quarry, hasn't it? 21 I did not say that. There's no data to support that. Α. 22 I have built a barn. I've done some clearing. 23 lot of effort into that land and I think the 24 appreciation is the result of my hard work. I don't 25 think it's because it's next to the quarry. What's the

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 391 May 6, 2019

- May 6, 2019 added benefit of being next to the guarry? 1 2 Q. I'm saying that it appreciated in spite of the quarry. 3 It could be. I've not seen any results of an Α. 4 appraisal. 5 And the county's valuation of your property has gone 0. 6 up? 7 It hasn't, no. Α. 8 It hasn't? 0. Tax assessor was out there this week and they gave 9 Α. No. 10 me an earful about this asphalt plant. 11 0. Well, it was appraised in 2018 at a higher number. A little bit. 12 Α. 13 \$20,000 more, is that correct? Q. 14 Probably, yeah, I don't recall. Α. 15 You didn't use any of the mean, the average prices, you Q. 16 just used the medians? 17 Α. That's correct. I used medians and so if you looked at 18 my report you looked at the distributions, you can see 19 why I chose medians instead of means based on the 20 distributions. Most of them are not normally distributed. 21 22 Q. Prices are not normally from the medians, but the
- 24 A. The distribution, the data comes in distributions, 25 right? There's a variation of the data and so in using

23

averages?

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 392 May 6, 2019

the mean you're assuming that the data are normally 1 2 distributed. Half on one side and half on the other. 3 0. 4 Α. But in this case real estate data are often not Right. 5 normally distributed. And so in that case because they're not normally distributed I used a median as a 6 better index of essential tendencies for non-normal 7 8 data. 9 So zip code had a lot of expensive houses in 0. 10 Waynesville up on the mountain, both sides. And when 11 you put that in that's going to move the median up? Yeah, but I mean, you're characterizing 12 Α. 13 distribution but it would move the mean up much 14 quicker. 15 Yeah, but it moves the median up --0. It moves the median up a little bit but the mean would 16 Α. 17 be more sensitive to that. 18 Well, that's right, the average would. 0. 19 Α. Yeah. 20 But there are also a lot more expensive houses over Q. 21 there than are some other places in that zip code. 22 Α. Sure. I mean, there are variations of property values 23 everywhere and so the question to you is why is there 24 less variation in property values near an asphalt 25 plant?

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 393 May 6, 2019

- Q. Because it's in a different type of land. You know,
 you could go out there in the country and go up Fines
 Creek somewhere and take a mile around some farm where
 it's steep as it could be and you'd probably find the
 same distribution, wouldn't you?
- 6 A. No, I can't say that.
- 7 Q. Hadn't done it?
- 8 A. Well, look, I mean, the value of anything is based on how much someone is willing to pay for it.
- 10 Q. Right.

25

- 11 A. Right. So the presence of an asphalt plant, I mean,
 12 I'm sure you could find a certain percentage of the
 13 population that doesn't care about an asphalt plant and
 14 if so, send them to buy my house. Okay. But the
 15 majority of people I find are concerned when they go to
 16 buy a house near an asphalt plant.
- Q. And until they see it running and then see that it's not a problem.
- 19 A. I tell you what, so you guys wanted to gamble, Mr. Reed
 20 clearly does not like bars but he's willing to gamble.
 21 He's gambling with my health and my economical gain.
 22 So let's equate this gamble right now. I'll sell him a
 23 bond, a bond worth 56 percent of the value of my house,
 24 okay, like \$140,000. And if I sell my house it doesn't

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 394 May 6, 2019

	0 /
	back. But if my property values are impacted, I keep
	the money. Are you guys willing to make that gamble
	with 333 property owners in Madison County?
Q.	How much was your contract that you had under
A.	I'm not going to disclose that.
	UNKNOWN SPEAKER: Did you file bankruptcy?
	MR. GULDEN: Objection to that who asked that
	question?
	BAILIFF: Keep your comments to yourself, you in
	the crowd, if you call out again, I'll
	leave.
	MR. GULDEN: Unless, Mr. Sneed, you asked that
	question, I didn't
	MR. SNEED: I didn't ask it.
	MR. GULDEN: Oh, okay.
Q.	Did you file a bankruptcy?
A.	I'm not going to disclose.
Q.	That's all I have.
	CHAIRMAN KIEHNA: It's nine o'clock. Do you have
	MR. GULDEN: Nothing, unless you all have
	questions, nothing further for Mr. Bruggeman,
	for Dr. Bruggeman.
	MR. RAMSEY: The Waynesville plant, where's it
	located at?
	Q. A.

Application by Madison Asphalt, LLC for a Conditional Use Permit - Vol. 395 May 6, 2019

• /
THE WITNESS: Well, the address
MR. RAMSEY: Kind of give me the general area.
THE WITNESS: I can't describe the general area,
it's like 1950 Allens Creek Road.
MR. RAMSEY: Let me ask Mr. Reed. Mr. Reed,
where's that plant generally located?
MR. REED: I've never been to it.
MR. RAMSEY: Maybe somebody can find it for the
next meeting. I'd like to know the general
location of that plant. Thank You. That's
all I got.
CHAIRMAN KIEHNA: It's two minutes after 9:00. We
will if both of the attorneys will come
forward, we'll set the date to continue.
(WHEREUPON, this proceeding on May 6, 2019, was
concluded at 9:02 P.M.; to be continued on
May 8, 2019)
* * * * * * * *

STATE OF NORTH CAROLINA)

OF RUTHERFORD

CERTIFICATE

COUNTY OF RUTHERFORD

I, Marianne S. Aguirre, Verbatim Reporter and Notary Public, do hereby certify that the aforesaid testimony was transcribed by me and that the foregoing pages constitute a verbatim and complete transcription of the testimony conducted herein as can be obtained from the audio record thereof.

I do further certify that I am not of counsel for or in the employment of any parties to this action, nor do I have any interest, financial or otherwise, in the outcome thereof.

IN WITNESS WHEREOF, I have hereunto subscribed my name, this the 7th day of June, 2019.

Marianne S. Aguirre

Notary No.: 19961490099

	273:5	359:19;372:13,14	310:19,21;317:2	annusicals (2)
ф	acre (1)	359:19;572:15,14 afraid (1)	amended (3)	appraisals (2) 339:19,23
\$	340:20	374:21	311:21;312:19;	appraised (5)
\$140,000 (1)	acres (2)	again (16)	313:5	385:13,17,19;
393:24	364:25;365:3	274:21;275:4;	amending (1)	386:6;391:11
\$20,000 (1)	across (12)	283:19;309:1;313:6;	312:7	appraiser (7)
391:13	289:1;293:8,9,17;	314:5;317:2;346:1;	American (1)	339:8,10,11,16;
\$45,624 (1)	301:3;311:3,5;	350:12;352:14;	339:14	340:1;376:1;379:16
386:8	325:11;379:5;383:5,	353:13,20;374:17;	among (1)	appreciated (2)
\$8.7 (1)	7;384:1	382:15;383:20;	383:16	390:19;391:2
385:24	active (1)	394:10	amount (4)	appreciation (1)
\$85,000 (1)	356:9 actual (5)	against (1) 338:10	277:23;282:3,4; 330:13	390:24
333:3	310:10;320:21;	agency (1)	analyses (1)	appropriate (1) 366:24
A	345:11;357:19;	303:4	347:1	approval (1)
A	366:15	agent (2)	analysis (23)	278:19
ability (1)	Actually (9)	375:24;389:13	341:13,14;346:19,	approvals (1)
276:25	312:13;330:1,20;	aggressive (1)	19,22;347:4,9,11,13,	292:5
able (15)	337:4;352:21;	381:8	18,20;363:23;365:5,	approve (2)
282:4;292:11,17;	356:14;362:19;	aggressively (1)	14,21;366:25;	292:4;314:18
293:14,20;300:24;	363:19;378:7	380:24	374:24;375:4;376:9,	approved (8)
307:7;316:1;328:21;	add (1)	ago (1)	12;377:9,21;383:1	287:15;288:13;
351:11;376:23;	358:4	347:10	analyze (1) 344:12	289:12;292:20;
377:18;380:17;	added (3) 311:16;383:13;	agree (1) 319:13	344:12 analyzed (5)	300:2;302:1;380:6, 14
384:4;389:5	391:1	agreeable (2)	341:3,11;358:23;	approximately (3)
above (2)	adding (1)	318:18,19	376:17;387:24	337:5;339:18;
387:16;390:11 absolutely (8)	293:2	agriculture (1)	announced (2)	364:24
306:20;343:5;	additional (1)	300:13	380:10;381:5	April (10)
360:2;362:12,22;	298:23	ahead (3)	annual (2)	273:11;274:25;
368:4,13;388:25	address (8)	318:17;319:11,17	321:13,16	347:16,18;348:23;
absorb (2)	318:15;319:6;	aids (1)	anomaly (1)	349:2,3;353:14,14,15
300:21,24	339:6,7;369:23;	363:6	351:5	Arden (1)
absorbing (1)	374:17;379:18;395:1	ain't (1)	anticipate (2)	339:7
301:4	adjacent (1)	286:20	280:3,6	area (16)
AC (4)	340:4 adjoins (1)	air (16) 276:2;280:24;	anymore (3) 300:3;308:16;	289:1;292:3; 297:11;298:17,19;
297:2,6;311:12;	374:23	282:16,19,20;283:4;	314:3	300:16;301:9;
322:8	Adjustment (2)	310:2;321:6,10;	APAC (3)	302:24;306:6;
acceleration (1) 284:3	273:2,12	322:14;326:7,15;	321:6;324:15;	340:22;346:25;
accept (1)	adjustments (1)	328:11;329:16,20;	327:5	369:9,14;378:20;
293:9	317:13	338:21	apart (1)	395:2,3
access (3)	administrator (2)	Al (1)	361:22	areas (2)
365:22,24;366:1	273:20;313:23	329:10	apologies (1)	361:16;368:3
accessible (1)	admitted (2)	Albert (2)	382:14	argue (2)
307:1	312:9;371:9	304:19;306:2	Applicant (11)	317:3;385:6
account (4)	advents (1) 390:2	aligned (3) 365:2,19;383:2	281:4;310:14;	arguing (1) 286:17
319:18;360:16,18;	advertise (1)	303:2,19;383:2 Allens (1)	311:1;314:21;316:8; 321:3;322:2,10;	argument (2)
376:18	356:9	395:4	323:3;373:1;374:1	315:4,15
accountants (1) 339:22	advertised (1)	allow (7)	application (14)	around (34)
accounting (2)	315:20	277:20,22;317:24;	279:17;280:22;	274:25;287:23;
376:20;381:22	affect (4)	318:14;319:4,6,10	281:3,17,19;287:6;	288:10,12,18;289:1,
accounts (2)	278:18;352:2;	allows (2)	311:17,19;312:9;	7;292:10,15;293:6;
330:25;381:20	355:12,19	277:15;310:8	314:11;316:14,20;	297:11;298:23;
accumulative (1)	affected (4)	along (1)	319:23;370:9	299:19;309:13;
283:24	351:12;355:9;	303:17	applied (2)	324:16,17;335:23;
accurate (5)	358:11,24	although (1)	385:11;386:7	337:12;347:3;355:4;
320:21;357:11;	affecting (3) 360:13,19;362:7	331:25	apply (1) 385:22	357:25;359:9; 360:19;361:16;
359:18;362:5;366:16	affects (9)	always (3) 326:8;331:20;	383:22 Appraisal (4)	364:18,21,23;370:3;
accurately (2)	311:25;351:17,18;	339:24	339:12,14;380:18;	373:13;377:14;
295:23;362:19	355:17;358:9,11;	amend (3)	391:4	384:25;386:2;
acoustics (1)	300.11,000.0,111,	(-)	274.	

	,	1	1	
389:23;393:3	389:19	351:6,7;352:3;	375:19	389:8
arrange (1)	association (3)	358:11;383:8;390:1;	beside (1)	boundaries (1)
305:20	340:12;373:9,9	394:1	287:21	375:13
Asheville (12)	assume (9)	background (1)	best (3)	break (5)
322:17;324:1,22;	278:20;286:14;	363:8	309:3;315:2;351:4	282:23;283:18;
334:16,17,18;347:24;	327:5;329:20,23;	backside (1) 293:19	better (6) 285:20;320:12;	346:11,12;361:21
354:25;362:10;	330:4,24;331:22;			Brian (1)
365:6;372:9;379:19	350:19	bad (6)	362:5;365:17;367:2; 392:7	274:21
Asheville's (1) 372:22	assuming (1) 392:1	282:14;287:16;		brief (1) 364:4
		312:11;332:1;	bias (2)	
as-is (1)	assumptions (2)	338:12;379:7	379:25;388:15	briefly (6)
381:3	328:16;329:12	baghouse (1)	big (12)	275:3;338:3;
aspect (1)	assure (1)	292:13	288:25;294:13,14;	374:10;375:15;
315:19	317:15	bailiff (5)	301:20;303:13;	381:12,13
asphalt (142)	asthma (1)	273:21,22;274:6,9;	304:9,21;305:11;	Briggs (20)
274:22;275:9,11,	389:23	394:9	325:16,19;344:7;	273:19;300:10;
19;276:4;279:16,24;	attention (1)	ball (1)	383:5	302:12,20;303:3,6;
280:2,3,4;281:11,12;	275:2	383:19	bigger (3)	306:1,25;307:20;
282:4,16,21,25;	attorneys (1)	balls (1)	323:23;326:18;	308:2;331:3;355:25;
283:5,6,10;288:25;	395:13	383:15	389:17	356:6,13,16;357:1,
290:9;291:17,17,20,	audience (3)	bankruptcy (2)	biggest (1)	21;362:25;363:3,5
21,21;293:2;300:14;	285:8;372:3;380:1	394:6,16	297:5	bring (5)
304:23;309:11;	August (1)	banks (1)	bingo (1)	274:6;283:23;
326:17;328:3;	276:20	339:20	317:5	317:8;363:3,4
333:24,25;334:2;	Austin (1)	barn (1)	biology (2)	Broad (2)
340:4,25;341:7,11,	321:23	390:22	375:10,10	333:22;375:23
15,20;342:7,9,11,20;	authority (1)	bars (4)	bit (6)	broker (2)
343:4,6,7,14,20;	316:18	292:18,19,23;	298:15;324:10;	375:24,25
344:1,23;346:6;	average (8)	393:20	375:8;382:8;391:12;	brokers (1)
347:2,6,21;348:2,3,	275:12,13,24;	based (21)	392:16	356:8
20,21;349:4;351:13;	321:16;358:16;	315:12,14;320:6;	Black (4)	Bruggeman (9)
352:11,17,22;353:6,	387:2;391:15;392:18	330:13;331:14;	364:17;365:1;	293:18;374:10,12,
9,24;354:3,9,15,19;	averages (1)	333:19;347:1,4,14;	368:22;379:2	12,14;386:14,15;
356:17;357:25;	391:23	350:5;351:13;	blowing (1)	394:22,23
358:15,20;359:11,25;	Avery (18)	354:12;365:18;	297:13	build (1)
360:12,16,22,24;	365:10,13,16,19,	374:24;380:2,17;	blue (1)	355:12
361:2,8,11;364:14,	22,23;366:2,8,13,22;	384:17;390:8,18;	297:7	building (4)
15;365:11,15;366:7;	367:7,16,22;370:12,	391:19;393:8	Board (38)	290:16;303:9;
367:6,10,13,15,18;	17;371:4,16;380:17	basic (1)	273:2,12,15,17,19;	364:25;385:8
368:5,6,8,14,18,21,	aware (6)	356:1	274:13;279:16;	buildup (1)
25;369:4,7,8,12;	326:21;370:12,14,	basically (4)	281:2;283:2;288:6,9,	301:10
370:4;371:8;373:9;	16,17;371:22	283:8;327:14;	10;304:2,18;305:4,	built (10)
374:19;375:22;	away (8)	377:11;389:25	18;308:4;311:20,24;	294:13;302:25;
376:8,13,14;377:13,	293:13,18;335:10;	basis (5)	314:12,17;316:10,18;	324:5;327:4;354:21;
14,16,18;378:10,13,	342:19;358:22;	302:21;352:16,18,	317:12;318:20;	355:7;365:7,11;
20,25;379:15;380:3,	362:1;380:8,24	25;387:19	319:7;323:12;	388:11;390:22
6,9,14;381:5,10,15,		bathroom (1)	326:13;329:1;338:4;	bunch (1)
15;383:6;384:25;	В	289:9	339:5;341:24;342:1;	281:13
386:22;389:12,16,19;		become (1)	374:17;377:8;378:1;	Buncombe (26)
391:10;392:24;	bachelors (1)	370:13	381:13;386:1	284:7;321:9;
393:11,13,16	375:9	begins (1)	board's (2)	327:16,18,20,21,24;
assessed (3)	back (42)	390:1	329:3,4	333:2,5,10,13,15;
366:4,9;385:5	275:2;284:7;285:9;	behind (1)	bogged (1)	340:16;367:8,17;
assessment (3)	288:23,24;292:7;	388:12	312:18	368:1,12;372:4,5,14,
357:4;359:18;	297:8,9;309:2;311:3,	belabor (1)	bond (2)	16,17,20;384:9,11,15
367:4	7;312:6;313:15;	338:19	393:23,23	bunkers (1)
assessments (1)	314:5;316:7,8;	below (2)	both (5)	349:18
357:12	330:22;331:1;	299:15;387:16	299:11;318:15;	Burnsville (3)
assessor (1)	332:20;334:12;	beneath (1)	323:1;392:10;395:13	340:17;373:11,12
391:9	335:3,9,14,23,24;	290:25	bottle (1)	burst (1)
J / 1./				
assessor's (1)		benefit (1)	290.22	345.4
assessor's (1) 370:18	336:1;346:11;	benefit (1) 391·1	290:22 hought (3)	345:4 business (6)
assessor's (1) 370:18 associated (1)		benefit (1) 391:1 benefits (1)	290:22 bought (3) 335:22;356:14;	345:4 business (6) 333:2;336:7,9,13;

Madison County Board	The Augustinents	I	I	May 0, 20.
363:17,17	337:19;339:16;	343:18;358:4,4;	324:21;334:16,17,18;	collected (1)
buy (10)	340:3;348:14;349:7,	371:19	336:10	381:18
289:25;290:4,7;	12;350:8;351:4,19,	certified (1)	clarification (2)	
		339:11		collecting (1)
328:3,6;333:18;	23,25;352:1,4,7,16,		284:16;337:3	335:25
335:1;381:9;393:14,	18;353:1;354:7,12,	Chair (3)	clarify (3)	college (1)
16	24;357:14;361:21;	307:15;346:16;	286:17;332:25;	363:15
buyer (3)	362:11,19;363:4;	371:1	338:3	coming (8)
380:18;381:2,7	369:10;370:18;	CHAIRMAN (35)	classify (1)	273:22;277:3;
buyers (1)	372:1;377:8;379:20;	273:10,15;298:3,5,	366:17	282:15;284:1,8;
381:6	381:12;382:7,7;	11,19;300:11;305:14,	clean (2)	336:8,14,15
buying (4)	383:21,25;388:24;	22;307:13,18;314:7;	277:6;290:10	comment (3)
333:12,16,23;	389:1;391:18;395:8	318:19,22;328:21;	cleansing (1)	334:5,11;338:21
368:21	Candler (2)	329:6,8;332:13;	292:3	comments (1)
bypass (2)	364:10;373:17	337:2,10,13,15,21,	clear (1)	394:9
325:12,16	cap (1)	25;346:9,17;361:13;	337:3	commercial (3)
bzzz (1)	332:7	371:3,12;372:17,24;	clearing (1)	369:14,15;370:1
306:14	capable (3)	374:5,11;394:19;	390:22	common (3)
500.14	275:20,21;282:25	395:12	clearly (1)	331:19,20,21
C	capacity (3)	Chairperson (2)	393:20	communities (1)
	321:11,14;322:22	274:19;328:19		367:1
ll-4- d (1)			clerical (1)	
calculated (1)	care (1)	chance (2)	286:24	community (2)
333:19	393:13	318:5;348:10	Clerk (1)	354:22;362:20
calculations (1)	Carmichael (5)	change (3)	371:16	compact (1)
328:17	339:1,2,5,7;379:16	349:11;353:11;	clients (2)	300:15
calculator (1)	Carolina (18)	356:19	313:20;339:20	compaction (1)
345:19	277:18;283:3;	changed (1)	cliff (1)	304:8
call (10)	295:11,17;297:3;	310:24	362:2	companies (1)
273:16,17;277:11;	301:24;302:13;	changes (1)	close (14)	339:21
307:24,25;338:25,25;	339:8,11,21;340:13;	319:19	307:7;327:21;	comparable (2)
374:10;382:18;	354:16;368:10,10;	changing (1)	340:24;341:10;	344:5,8
394:10	374:13,18;375:14;	351:18	348:21;359:11;	compare (4)
called (3)	377:11	characterizing (1)	368:15;369:14,17;	322:7;378:5;
304:3;377:14;	carry (6)	392:12	370:8;371:20;	382:21;383:13
384:23	275:11,14,14;	charge (2)	374:22;375:3;383:11	compared (5)
calling (1)	278:12;288:25;	334:12;335:9	closed (3)	381:18;386:25;
274:8	337:16	charged (2)	337:4,6,22	388:7,10,17
calls (1)	carrying (1)	314:13,17	closely (3)	comparing (3)
380:10	276:15	chart (1)	365:2,19;383:2	361:16;377:22;
came (2)	case (20)	349:10	closer (6)	387:8
315:21;327:8	280:7;307:21;	check (11)	327:16,18;358:15,	comparison (3)
cameras (1)	314:19;315:17;	294:9,11,12;	19;359:2;360:8	382:23;384:7,23
297:19	316:6,17;317:6;	298:16;299:4,9;	closest (2)	compete (1)
can (109)	330:11,24;331:9;	301:8,14;302:12;	324:17;340:14	328:6
274:2,11,12,16;	332:5;350:10;366:7;	307:23,25	closet (1)	competitive (2)
275:11;277:10,12;	367:1,12;376:19;	checking (1)	289:9	380:25;385:25
278:12,15;279:25;	384:1;390:4;392:4,5	291:25	closing (4)	competitiveness (1)
281:7;282:4;283:12,	cases (3)	chemicals (1)	376:13;377:12;	381:2
13,14,14,18;284:24;	358:19;360:8,10	301:4	378:13,15	competitors (1)
288:2,6,16;290:6,12,	cash (1)	choose (2)	closings (3)	328:6
14;292:7;293:9;	381:9	330:8;377:23	377:22,22;378:3	compile (1)
294:17,25;295:1;	catch (4)	chose (2)	Club (1)	366:4
296:14;298:13,19;	299:2;302:4,5;	379:24;391:19	388:11	complaints (1)
301:11,15;303:17;	328:20	Christmas (2)	Coates (2)	326:22
304:17;305:4,19;	CDC (1)	308:23,23	374:13,18	complete (1)
306:6,25;307:3,4,6,7,	370:23	churches (1)	code (10)	316:14
9,16;310:3;312:3;	cement (5)	324:16	377:23;378:15;	compliance (2)
313:8,9,9;316:23;	275:9;290:9;	circumstances (1)	386:25;387:8,11;	314:18;317:1
319:22;321:2;	364:19;365:3;389:11	274:5	388:8,14,17;392:9,21	complies (1)
319:22;321:2; 322:13;323:14;	center (2)	citizens (3)	cold (2)	312:4
325:14,15,21;326:12;	284:3;300:13	312:1;339:22;	285:8;309:2	
	-	312:1;339:22;		comply (2)
328:22;329:10;	certain (1)		collect (3)	312:4,6
330:7,8,13,21;331:1,	393:12	city (7)	291:6;334:3;	computer-based (1)
9;332:24;334:13;	certainly (4)	285:5;323:20;	335:15	382:4

concern (1)	22;356:18	307:2,20	cross-examination (1)	383:9,22;384:10;
389:24	construction (12)	count (1)	274:15	385:12;390:21;
concerned (4)	342:9,11,22;343:1,	294:25	crossing (2)	391:24,25;392:1,4,8
379:24;381:9;	4,7;348:1,3;350:2,3;	counties (2)	289:1,4	date (4)
389:22;393:15	365:9;367:12	335:15;366:14	crowd (1)	347:15;349:1;
concerning (1)	contain (1)	Country (2)	394:10	361:25;395:14
275:3	273:7	388:10;393:2	crucible (2)	dates (1)
conclude (8)	contains (1)	County (85)	383:15,19	353:13
343:13;352:16;	291:17	273:2,12;284:7;	crusher (2)	dating (1)
353:2;360:12;361:7;	contamination (3)	289:12;312:2;321:9;	325:15,19	348:13
368:18;369:3;374:5	389:19,20;390:4	327:9,16,18,20,21,	crushers (2)	day (35)
concluded (1)	contemplating (1)	25;333:2,6,10,13,15;	389:4,6	275:6,8,24;276:13,
395:16	292:10	334:4,5;335:7,9,21,	crushings (1)	16;277:3,10,13,14;
concluding (1)	contest (1)	23,24,25;336:2;	300:14	278:2,6,14,23,25;
381:24	316:5	340:16,16,17;357:1,	curiosity (1)	281:20;282:10,11,16,
conclusion (1)	contingent (1)	6;365:10,13,16,19,	306:10	22;283:20;285:7;
381:14	380:22	19,20,22,23;366:2,8,	curious (1)	287:1,2;298:7,10;
conclusions (1)	continual (1)	13,18,18,20,22;	357:21	309:10,21;310:4;
373:14	345:9	367:7,8,8,8,10,12,16,	current (15)	313:19;316:9;328:5;
concrete (3)	continuation (1)	17,17,22,23,23;	347:9,12,13,14;	329:11;330:1;331:4;
283:21;309:7;	273:11	368:1,12,12,13;	348:7,13;349:6,15;	338:7
369:17	continue (6)	370:12,17;371:4,16;	350:5;357:17,20;	days (17)
condenser (4)	273:23;274:11;	370.12,17,371.4,10, 372:4,5,10,14,16,17,	358:5;362:6;366:10;	281:20;282:23;
297:2,3,8,10	319:5;332:17;	18,19,20;384:9,12,	368:19	298:11,13;299:21;
297:2,3,8,10 condition (1)	361:18;395:14	18,19,20;384:9,12, 12,15;385:12;386:8,	currently (4)	308:21;309:9,10,14;
314:25	continued (2)	10,11;387:5;394:3	293:1;295:7;298:9;	310:10;311:20;
				, , ,
conditional (1)	344:19;395:16	county's (1)	369:10	313:17,18;330:14;
314:13	continuous (1)	391:5	cut (1)	331:5;338:7;383:11
conditioner (1)	277:14	county-wide (1)	326:6	dead-end (1)
326:7	contract (5)	327:9	cycle (2)	288:13
conditions (1)	356:10;380:21,23;	couple (5)	351:15;357:16	December (5)
317:13	381:3;394:4	302:23;303:25;	D	280:12;284:22;
conduct (1)	control (33)	326:12;337:18;	D	285:19;286:9;309:15
367:2	288:23;296:5;	346:15		decent (1)
conducted (2)	298:22;302:14;	course (1)	daily (1)	309:5
274:3;376:17	305:1;308:5,14;	303:1	380:7	decide (1)
confident (1)	340:24;341:1,7,8;	courses (1)	dam (23)	314:20
381:23	347:22;348:20;	376:25	294:9,11,12,13,14;	decided (1)
conform (1)	349:5;352:23;353:1,	court (9)	298:16,17,19;299:4,	289:11
317:15	6,11;354:3,18;	273:14;274:3,5;	9;301:15;302:24;	decision (1)
confused (1)	359:15;367:13,14,18;	294:18;296:19;	304:9,11,12,14;	318:16
348:4	368:7;369:5,6,15,25;	316:17;323:14;	305:5,6,12,13;306:6;	decisions (1)
Congress (1)	377:23,25;379:25;			
351:17		339:25;371:16	307:23,25	375:21
acompaction (1)	388:15	courtroom (1)	damage (1)	decline (1)
connection (1)	388:15 conveyors (1)	courtroom (1) 273:6	damage (1) 299:23	decline (1) 348:16
317:14	388:15 conveyors (1) 292:13	courtroom (1) 273:6 courts (1)	damage (1) 299:23 damaged (1)	decline (1) 348:16 decrease (14)
317:14 consider (1)	388:15 conveyors (1) 292:13 cool (1)	courtroom (1) 273:6 courts (1) 336:12	damage (1) 299:23 damaged (1) 299:24	decline (1) 348:16 decrease (14) 353:25;364:8;
317:14 consider (1) 365:20	388:15 conveyors (1) 292:13 cool (1) 332:24	courtroom (1) 273:6 courts (1) 336:12 covers (1)	damage (1) 299:23 damaged (1) 299:24 dams (1)	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24;
317:14 consider (1) 365:20 considerably (1)	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3)	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20;
317:14 consider (1) 365:20 considerably (1) 357:23	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2)	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1)	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16;
317:14 consider (1) 365:20 considerably (1) 357:23 Considering (2)	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4 corrected (4)	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2) 309:9;349:21	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1) 339:7	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16; 386:17
317:14 consider (1) 365:20 considerably (1) 357:23 Considering (2) 365:15;367:24	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4 corrected (4) 311:9;314:1;	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2) 309:9;349:21 create (1)	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1) 339:7 DAQ (4)	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16; 386:17 deep (2)
317:14 consider (1) 365:20 considerably (1) 357:23 Considering (2) 365:15;367:24 consistent (12)	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4 corrected (4) 311:9;314:1; 315:23;328:8	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2) 309:9;349:21 create (1) 376:15	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1) 339:7 DAQ (4) 321:9,9;322:20;	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16; 386:17 deep (2) 294:13;304:23
317:14 consider (1) 365:20 considerably (1) 357:23 Considering (2) 365:15;367:24 consistent (12) 352:15,18,25;	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4 corrected (4) 311:9;314:1; 315:23;328:8 correctly (3)	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2) 309:9;349:21 create (1) 376:15 Creek (2)	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1) 339:7 DAQ (4) 321:9,9;322:20; 371:7	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16; 386:17 deep (2) 294:13;304:23 defense (1)
317:14 consider (1) 365:20 considerably (1) 357:23 Considering (2) 365:15;367:24 consistent (12) 352:15,18,25; 353:3;359:25;360:1,	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4 corrected (4) 311:9;314:1; 315:23;328:8 correctly (3) 311:13;320:3;	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2) 309:9;349:21 create (1) 376:15 Creek (2) 393:3;395:4	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1) 339:7 DAQ (4) 321:9,9;322:20; 371:7 Darlyne (1)	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16; 386:17 deep (2) 294:13;304:23 defense (1) 315:12
317:14 consider (1) 365:20 considerably (1) 357:23 Considering (2) 365:15;367:24 consistent (12) 352:15,18,25; 353:3;359:25;360:1, 4,25;361:6,12;	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4 corrected (4) 311:9;314:1; 315:23;328:8 correctly (3)	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2) 309:9;349:21 create (1) 376:15 Creek (2) 393:3;395:4 crew (1)	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1) 339:7 DAQ (4) 321:9,9;322:20; 371:7 Darlyne (1) 273:17	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16; 386:17 deep (2) 294:13;304:23 defense (1) 315:12 defer (2)
317:14 consider (1) 365:20 considerably (1) 357:23 Considering (2) 365:15;367:24 consistent (12) 352:15,18,25; 353:3;359:25;360:1,	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4 corrected (4) 311:9;314:1; 315:23;328:8 correctly (3) 311:13;320:3;	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2) 309:9;349:21 create (1) 376:15 Creek (2) 393:3;395:4	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1) 339:7 DAQ (4) 321:9,9;322:20; 371:7 Darlyne (1)	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16; 386:17 deep (2) 294:13;304:23 defense (1) 315:12
317:14 consider (1) 365:20 considerably (1) 357:23 Considering (2) 365:15;367:24 consistent (12) 352:15,18,25; 353:3;359:25;360:1, 4,25;361:6,12;	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4 corrected (4) 311:9;314:1; 315:23;328:8 correctly (3) 311:13;320:3; 333:1	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2) 309:9;349:21 create (1) 376:15 Creek (2) 393:3;395:4 crew (1)	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1) 339:7 DAQ (4) 321:9,9;322:20; 371:7 Darlyne (1) 273:17 darn (1) 287:9	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16; 386:17 deep (2) 294:13;304:23 defense (1) 315:12 defer (2)
317:14 consider (1) 365:20 considerably (1) 357:23 Considering (2) 365:15;367:24 consistent (12) 352:15,18,25; 353:3;359:25;360:1, 4,25;361:6,12; 367:20;368:17	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4 corrected (4) 311:9;314:1; 315:23;328:8 correctly (3) 311:13;320:3; 333:1 corrects (1)	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2) 309:9;349:21 create (1) 376:15 Creek (2) 393:3;395:4 crew (1) 336:23	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1) 339:7 DAQ (4) 321:9,9;322:20; 371:7 Darlyne (1) 273:17 darn (1)	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16; 386:17 deep (2) 294:13;304:23 defense (1) 315:12 defer (2) 318:12,13
317:14 consider (1) 365:20 considerably (1) 357:23 Considering (2) 365:15;367:24 consistent (12) 352:15,18,25; 353:3;359:25;360:1, 4,25;361:6,12; 367:20;368:17 constantly (1)	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4 corrected (4) 311:9;314:1; 315:23;328:8 correctly (3) 311:13;320:3; 333:1 corrects (1) 311:22	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2) 309:9;349:21 create (1) 376:15 Creek (2) 393:3;395:4 crew (1) 336:23 criticize (1)	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1) 339:7 DAQ (4) 321:9,9;322:20; 371:7 Darlyne (1) 273:17 darn (1) 287:9	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16; 386:17 deep (2) 294:13;304:23 defense (1) 315:12 defer (2) 318:12,13 deficient (1)
317:14 consider (1) 365:20 considerably (1) 357:23 Considering (2) 365:15;367:24 consistent (12) 352:15,18,25; 353:3;359:25;360:1, 4,25;361:6,12; 367:20;368:17 constantly (1) 276:18	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4 corrected (4) 311:9;314:1; 315:23;328:8 correctly (3) 311:13;320:3; 333:1 corrects (1) 311:22 coughing (2)	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2) 309:9;349:21 create (1) 376:15 Creek (2) 393:3;395:4 crew (1) 336:23 criticize (1) 377:25	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1) 339:7 DAQ (4) 321:9,9;322:20; 371:7 Darlyne (1) 273:17 darn (1) 287:9 data (26)	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16; 386:17 deep (2) 294:13;304:23 defense (1) 315:12 defer (2) 318:12,13 deficient (1) 316:20
317:14 consider (1) 365:20 considerably (1) 357:23 Considering (2) 365:15;367:24 consistent (12) 352:15,18,25; 353:3;359:25;360:1, 4,25;361:6,12; 367:20;368:17 constantly (1) 276:18 Construct (1)	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4 corrected (4) 311:9;314:1; 315:23;328:8 correctly (3) 311:13;320:3; 333:1 corrects (1) 311:22 coughing (2) 285:8;372:3	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2) 309:9;349:21 create (1) 376:15 Creek (2) 393:3;395:4 crew (1) 336:23 criticize (1) 377:25 criticized (1)	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1) 339:7 DAQ (4) 321:9,9;322:20; 371:7 Darlyne (1) 273:17 darn (1) 287:9 data (26) 349:7,15;356:11;	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16; 386:17 deep (2) 294:13;304:23 defense (1) 315:12 defer (2) 318:12,13 deficient (1) 316:20 definite (1)
317:14 consider (1) 365:20 considerably (1) 357:23 Considering (2) 365:15;367:24 consistent (12) 352:15,18,25; 353:3;359:25;360:1, 4,25;361:6,12; 367:20;368:17 constantly (1) 276:18 Construct (1) 280:22	388:15 conveyors (1) 292:13 cool (1) 332:24 copy (3) 329:1;363:3,4 corrected (4) 311:9;314:1; 315:23;328:8 correctly (3) 311:13;320:3; 333:1 corrects (1) 311:22 coughing (2) 285:8;372:3 coughs (1)	courtroom (1) 273:6 courts (1) 336:12 covers (1) 352:3 crazy (2) 309:9;349:21 create (1) 376:15 Creek (2) 393:3;395:4 crew (1) 336:23 criticize (1) 377:25 criticized (1) 388:15	damage (1) 299:23 damaged (1) 299:24 dams (1) 302:12 Dansford (1) 339:7 DAQ (4) 321:9,9;322:20; 371:7 Darlyne (1) 273:17 darn (1) 287:9 data (26) 349:7,15;356:11; 376:10,13,16,17,19;	decline (1) 348:16 decrease (14) 353:25;364:8; 365:18;378:22,24; 379:1,2,3,4,14,20; 380:16;381:16; 386:17 deep (2) 294:13;304:23 defense (1) 315:12 defer (2) 318:12,13 deficient (1) 316:20 definite (1) 354:23

different (17) different (17) different (17) different (17) different (17) 348-24-235-7 3591-1,13-135-21-122 DOT (9) 348-1,13-13-13-13-13-13-13-13-13-13-13-13-13-1	degrade (1)	24;383:4,5,7,16,25	390:22;393:7	drone (5)	383:22
degreed (2)			*		
2842;42:285.73 350:11,13:352:21,222, bit (ediberate (1)) 3681;53:373:27, as 357:22 as 284:13,19,19,21; bit (edivering (1)) drivering (1) 3684;13:14,16;93:1 bit (1) drivering (1) 3848;11,12,16;93:1 bit (1) drivering (1) 284:13,19,19,21; bit (1) drivering (1) 388:19,10,16;384-4, as 33:19,10,12,24 drivering (1) 305:1 305:22 306:6 308:9,10,16;384-4, as 33:11,22 308:340:34:79:22; bit (1) 308:1 277:6;299:22 div (2) 477:6;299:22 div (2) 308:34:34:34:79:22; bit (1) 308:1 277:6;299:22 div (2) 308:34:34:379:22; bit (1) 308:34:34:12,34:29 308:34:34:34:12,34:29 308:34:34:34:12,34:29 309:23 30					
deliberate (1) 316:10 delivering (1) 275:10 demond (8) 383:9,1016;384.4, 6,16,17,22 demonstrate (2) 304:1308:12 274:10303:13 283:3,4;334:18 depreciation (1) 378:19 derived (1) 386:19 describe (1) distribution (1) 386:19 describe (1) 384:17 describin (1) 382:3,34;334:18 describe (1) 382:3 395:3 390:3 describe (1) 382:4 describe (1) 382:14 384:17 describin (1) 382:24 describe (1) 382:24 describe (1) 392:13316 describin (1) 382:24 describe (1) 392:13316 describin (1) 382:24 describe (1) 392:25 destailed (3) 394:5,17 detriment (2) 394:5,17 detriment (3) 398:221 detail (2) 334:5,338:22 detail (3) 393:11:13 394:5,17 detriment (3) 382:1338:11; 3737:7,377:18,378:6; determing (1) 376:7 detriment (2) 388:1,17 detriment (3) 388:1,17 detriment (3) 388:1,17 detriment (3) 388:1,17 detriment (4) 391:12:139:22,5,6 distilbution (6) 391:12:139:22,5,6 distilbution (9) 388:133:83:23; determing (1) 376:7 detriment (2) 388:16 desgram (1) 388:123:388:22:1 394:311:10 396:12 detail (2) 334:33,373:4 development (1) 364:18 366:12 366:12,336:2) difference (17) 317:9 deficient (1) 388:14; development (1) 368:16 document (6) 394:23,23,334:3,4 development (1) 364:18 364:17 detriment (2) 388:16 diagram (1) 287:33,232:8 differ (1) 388:21 388:11 388:21 388:12,238:22:2 difference (17) 317:9 388:21,238:11 388:12 388:21,238:11 388:12 388:22 differ (1) 388:22 difference (17) 388:22 differ (1) 388:22 difference (17) 3					
386:10 388:2376:1378.7; 284:13.19.19.21; drum (2) 319:8340-4379:22; drum (3) 319:8340-4379:22; drum (4) 319:8340-4379:22; drum (5) 319:8340-4379:22; drum (6) 363:10 diligently (1) 305:1 305:2 305:2 305:2 305:2 305:3 305:2 305:3 305:2 305:3 305:2 305:3 305:2 305:3 305:3 305:2 305:3 305:					
delivering (1) 275:10 3848.11.12.16:393.1 2871:15:292.4:324.21 281:11:334.23 380.4.12.13 480.4.12.13					
demand (8) 363:19 363:10 305:1 305:1 305:6 305:6 305:1 305:6 305:6 305:1 305:6 305:6 305:1 305:6 305:1 305:6 305:6 305:1 305:6 305:2					
demand (8)					
assay 0.016.3844. diligenty (1)					
demonstrate (2) 304:1308:12 274:10363:13 293:22 316:233:14:25; 316:233:14:45; 316:233:14:45; 316:233:14:45; 316:233:14:45; 316:233:14:45; 316:233:14:45; 316:233:14:45; 316:233:14:45; 316:233:14:45; 316:233:14:45; 310:14:33:15; 316:233:14:45; 316:233:14:45; 310:14:33:15; 316:233:14:45; 310:14:33:15; 316:233:14:45; 310:14:33:15; 316:233:14:45; 310:14:33:15; 310:14:3					
denomstrate (2) directed (2) doubt (1) duly (2) 300-23 Department (3) 283:34/334:18 depreciation (1) 274:10:363:13 derection (1) 274:10:363:13 depreciation (1) 274:8 dereved (1) Director (2) 289:13,16 386:19 390:3 24:2868.8288:68,15 describe (1) direction (1) 288:120:28223; 395:3 390:3 24:2868.8288:68,15 describe (1) discerns (1) 362:17 299:3,15:300:17,18 description (1) 362:17 299:3,15:300:17,18 designate (1) discerns (1) 301:8,15:304:11,2 317:13 designation (6) 339:12,15,16,17 315:21,319:22 detail (2) 334:23,132-2 distributed (4) distributed (4) 382:24 determination (1) 382:24 305:59,10,19 determination (1) 382:382:32 determination (1) 382:382:22:333:15 391:24,329:15,330:15 378:77 (18378:6) 338:16,389:5 determination (2) distribution (8) 382:24 382:34 determination (2) distribution (8) 382:24 391:12,320:24 determination (2) 386:16,388:19 development (1) 380:2,382:23:337:18 398:23 399:3 417 428:24 description (1) 328:11 428:238:22:338:15 398:14,17 428:238 428:238:32:330:5 398:23 399:3 417 428:438 4					
200, 11,308,12 274,110,363,13 293,22 293,23 293					
Dong (5) 28334343418 direction (1) directions (2) 277:11;280:4,12, 386:19 289:13,16 15,17,19;282:23; 395:3 390:3 24;286:8;288:6,8.15; 395:3 390:3 24;286:8;288:6,8.15; 395:3 390:3 24;286:8;288:6,8.15; 395:3 362:17 299:3,15;300:17,18; 384:17 362:17 299:3,15;300:17,18; 384:17 362:17 299:3,15;300:17,18; 384:17 362:17 299:3,15;300:17,18; 368:16 317:13 281:14 10:309:10.11:311:5; designate (1) 314:83.17:22 315:23.138:2; 335:23 305:12 discharges (1) 305:25;307:23.10, 315:21;319:22; 342:23 designation (6) 336:12 distribution (5) 318:23:382:22; 330:19:351:11; 373:7;377:18;378:56 distribution (5) 388:16:389:5 determine (7) 328:23 determine (7) 388:16:389:5 determine (7) 388:16:389:5 determine (7) 388:14.17 296:2 290:24:299:17 detrimental (3) 293:33473.4 development (1) 364:18 336:16 document (6) 287:4 286:12:326:20; 332:13371:10,15,19 detrimental (3) 293:33473.4 development (1) 364:18 338:14; 354:8378:9,11.12 332:14;335:1; 366:11:333:14; 388:122 332:22:3331:4; 354:8378:9,11.12 332:22:3331:4; 355:18 332:23334:4; 34:2 332:13:331:13; 36:11:333:5; 366:83:2331:4; 357:12:23331:4; 357:12:23331:4; 357:12:23331:4; 366:12 direction (1) 362:14 direction (1) direction (1) 362:14 direction (1) 362:14 direction (1) 362:14 direction (1) dir					
283.3.433.4318 (algoritections (1) 378:19 297:13 (directions (1) 14.17 (down (58)) 299:18.374:10.12, down (58) 291:19 (291:9) (eight (11) (291:9) (eight					
depreciation (1) directions (1) 378:19 274:8 deviced (1) 378:19 289:13.16 15.17.19.282:23; dirty (1) 238:18.285.9.16.23, 395:3 390:3 24;286.8;2886.8,15; described (1) 36:217 299:3,15:300:17.18; described (1) 36:26 382:24 305:5.9.10.19; designate (1) 36:24 305:5.9.10.19; designate (1) 317:13 281:14 305:5.9.10.19; descapes (1) 318:331:22 338:13.382.5; detailed (3) 348:317:22 338:13.382.5; detailed (3) 339:12.356.25 distribution (5) 338:23.382.22; determine (7) 330:19:251:11; 373:77:18;378:6; distribution (9) 337:13 determine (7) 330:19:251:11; 378:6.9.8;831:19; 378:7.377:18;378:6; distribution (9) 376:13 determine (1) 382:22.28 distribution (9) 376:13 development (1) 36:18 dagram (1) 296:2 290:24:299:17 detrimental (3) 293:33473.4 278:11 302:14 290:24 290:19:20:291:8 easi(1) 336:16 document (6) document (1) 342:322.2; difference (17) 332:23344:8.14; 354:8;378:9,11.12; 332:243331:5; distribution (9) 376:13 development (1) 36:18 document (6) 332:23 devine (1) 336:16 document (6) 332:23:331:33:11,01,51,91 detrimental (3) 329:33:334:3,4 development (1) 36:18 document (6) 332:23:331:33:11,01,51,91 document (6) 332:23:331:33:11,01,51,91 document (6) 332:23:331:33:11,01,51,91 document (6) 332:24 330:24 330:13:33:11,51,51,51,51,51,51,51,51,51,51,51,51,5				*	
describe (1)		directions (1)			
derived (1)			down (58)	Dunn's (1)	
describe (1)	derived (1)	Director (2)	277:11;280:4,12,	384:23	310:4;324:14;
395:3 390:3 390:3 24;2868;288:68,15; 292;2929:11; 292;2929:11; 292;2929:11; 292;2929:11; 292;2929:11; 292;315;300:17,18; 313:18;356:17 362:17 302:59,1019; 313:18;356:17 357:16 293:307:23,10, 317:13 281:14 10309:10,11311:5; 293:307:23,10, 321:24 357:16 293:307:23,10, 321:24 237:16 293:307:23,10, 321:24 237:16 293:307:23,30; 231:24 235:16; 230:133:25; 230:12:4 235:16 235:17 235:17 230:131:25; 230:133:25; 230:12:4 235:17 235:18 235:17 235:18 23	386:19	289:13,16	15,17,19;282:23;	during (9)	329:11,25;331:4;
described (1) disasters (1) 292:7:298:17.24; 292:9:293:15;300:17.18; 362:13 292:9:315;300:17.18; 362:13 363:13 363:13 description (1) 362:6 382:24 305:59.10.19; 301:8.15;300:17.18; 306:25;307:2,3.10, 321:24 357:16 eight-year (1) 363:13 eight (1) 363:13 eight (1) 363:13 deight (1) 363:13 363:13 eight (1) 363:13 deight (1) 363:13 363:13 deight (1) 363:13 363:13 deight (1)	describe (1)	dirty (1)	283:18;285:9,16,23,	275:6;276:19;	338:7;357:13;
362:17 362:17 301:13,5304:11,12; 305:59,10,19; 321:24 357:16 357:17 357:	395:3	390:3	24;286:8;288:6,8,15;	282:1,6;285:11;	366:12,14
description (1) discerns (1) 3018.15;304:11,12; Dynamite (1) cight-year (1) 362:6 382:24 305:59,10,19; 321:24 357:16 cither (2) designation (6) 339:12,15,16,17, 281:14 10;309:10,11;311:5; E 303:7;353:25 339:12,15,16,17, 394:5,17 315:21;319:22; 315:21;319:22; 315:21;319:22; 342:23,365:25 distance (1) 331:21;39:22; 323:31,118;325:9, devarion (6) 328:23 distributed (4) 391:21;392:2,5,6 distribution (5) 331:13;33:13;33:15; 330:19;351:11; 376:13 288:33:31:1,18 Eleven (1) 278:9 330:19;351:11; 391:24;392:13;393:5 distributions (9) 376:13 300:1 288:8;323:11,18 east (5) east (1) 279:22;280:2; 288:19;289:22; east (1) 288:10 east (1) 279:22;280:2; 335:18 east (1) 288:10 east (2) 335:18 east (3) east (1) 288:10 east (3) east (1) 288:10 east (3) east (1) 288:10 east (3) east (1)					
382:24 382:24 305:5.9.10.19; 321:24 357:16 either (2) 303:7:353:25		362:17			
designate (1) 317:13 281:14 10:309:10.11:311:5; 337:13 281:14 10:309:10.11:311:5; 337:13.15; 281:14 339:12.15.16.17, 394:5.17 315:21:319:22; 323:8.11.18:325:9, detail (2) 348:5.14:349:7 determination (1) 328:23 determining (1) 338:16:389:5 determining (1) 338:16:389:5 determining (1) 376:7 391:18.20.24 determining (1) 376:7 391:18.20.24 determination (2) 389:14.17 detrimental (3) 290:22:23:347:3.4 development (1) 290:24:299:17 detrimental (3) 293:33:47:3.4 development (1) 286:12;320:20; disagram (1) 287:4 disagram (1) 287:4 document (6) document (1) 318:2 document (1) document (1) 318:2 document (1) 318:2 document (1) document (1) 318:2 document (1) 318:2 document (1) document (1) 318:2 document (1) document (1) 318:2 document (1) document (1) document (1) 318:2 document (1) document (2) document (1) document (1) document (1) document (2) document (1) document (2) document (2) document (3) document (3) document (3) document (4) document (5) document (6) document (6) document (7) document (8) document (9) document (1) docume	description (1)				eight-year (1)
Side				321:24	
designation (6) disclose (2) 312:18;313:8; earful (1) deborate (1) 18;363:21 394:5,17 394:5,17 392:4,12321:23; 391:10 elevation (6) detaild (2) 354:25;365:25 distance (1) 16;331:15;338:25; 366:9,373:6 320:1;389:25;390:6, detailed (3) 305:12 distributed (4) 391:21;392:2,56 distribution (5) 342:23 distribution (5) 376:13 downloaded (1) 288:323:21:1,18 east (3) 278:9 else (4) 330:19;351:11: 391:24;392:13;399:5 distributions (9) 378:66.8381:19; downtown (1) 288:8;323:11,18 east (5) 279:22;280:2; 335:18;360:18 determiner (2) 382:21;383:15; 391:18,20;24 distributions (9) 386:15;394:23 east (5) east (5) east (5) east (5) east (5) east (1) 335:18;360:18 emission (1) 281:10 eest (5) east (1) 335:18;360:18 eest (5) east (5) east (1) 281:10 <td></td> <td></td> <td></td> <td>_</td> <td></td>				_	
339:12,15,16,17, 394:5,17 discussion (2) 314:8;317:22 320:4,12;321:23; 320:4,12;321:23; 391:10 elevation (6) 222:8;293:12; 336:2,365:25 distance (1) 16;331:15;338:25; 344:20;349:22; 334:23;349:22; 339:10 235:8,382:8,20 283:14 288:8;323:11,18 28				E	*
Rs;363:21 detail (2)				-	
detail (2) 314:8;317:22 323:8,11,18;325:9, 16;331:1338:25; earlier (2) 366:9;373:6 320:1;389:25;390:6, 366:9;373:6 detailed (3) 348:5,14;349:7 determination (1) distributed (4) 391:21;392:2,5 d distribution (5) 348:20;348:22; early (1) 283:14 easel (3) 288:32 278:9 else (4) determine (7) 330:19;351:11; 391:24;392:13;393:5 determing (1) 381:23;382:22; 391:13;393:5 distributions (9) 300:1 377:24 353:18;360:18 email (1) 377:24 353:18;360:18 email (1) 375:13 288:83;23:11,18 279:22;280:2; 335:18 335:18;360:18 email (1) 335:18;360:18 email (1) 299:224 288:19;289:22; 298:8 emission (1) 281:10 288:19;289:22; 298:8 emission (1) 281:10		*			
354:25;365:25 detailed (3) 305:12 distributed (4) 348:5,14;349:7 determination (1) 391:21;392:2,5,6 distribution (5) 381:23;382:22; 337:37:37:18;378:6; 381:23;382:22; 381:23;382:24;382:43;14; 381:23;382:24;382:43;14; 381:23;382:24;382:34;384;14; 381:23;382:24;382:34;384;14; 381:23;382:24;382:34;384;14; 381:23;382:24;382:34;384;14; 381:23;382:24;382:34;384;14; 381:13;382:23;382:24;382:343;382:22; 381:13;382:23;382:24;382:34;384;14; 381:13;382:23;382:24;382:34;384;14; 381:13;382:23;382:24;382:34;384;14; 381:13;382:23;382:24;382:34;384;14; 381:13;382:23;382:24;382:34;384;14; 381:13;382:23;382:24;382:34;384;14; 381:13;382:23;382:24;382:34;384;14; 381:13;382:23;382:24;382:34;384;14; 381:13;382:23;382:24;382:34;384;14; 381:13;382:23;382:24;382:34;384;384;14; 381:13;382:23;382:24;382:34;384;384;14; 381:13;382:24;382:34;384;14; 381:13;382:23;382:24;382:34;384;384;14; 381:13;382:23;382:24;382:34;384;384;14; 381:13;382:23;382:24;382:34;384;384;14; 381:13;382:23;382:24;382:34;384;384;14; 381:13;382:23;382:24;382:34;384;384;14; 381:13;382:23;382:24;382:34;384;384;14; 381:13;382:23;382:24;382:34;384;384;14; 381:13;382:23;382:24;382:34;384;384;14; 381:13;382:23;382:24;382:34;384;384;14; 381:13;382:33;382:24;384;384;14; 381:13;382:33;382:24;384;384;14; 381:13;382:33;382:24;384;384;14; 381:13;382:24;384;384;14; 381:13;382:24;384;384;14; 381:13;382:24;38					
detailed (3) 348:5,14:349:7 distributed (4) 344:20;349:22; 283:14 Eleven (1) 328:23 distribution (5) 391:21:392:2,5,6 downholoaded (1) 288:8;323:11,18 easel (3) 278:9 328:23 distribution (5) 381:23;382:22; downstream (1) 288:8;323:11,18 else (4) 330:19;351:11; 391:24;392:13;393:5 downstream (1) 377:24 353:18;360:18 376:7 391:18,20,24 386:15;394:23 Easter (1) 288:19;289:22; detriment (2) 389:14,17 296:2 290:24;299:17 298:8 emission (1) 364:18 366:16 304:9 290:24;299:17 ecological (3) 365:7 employees (1) disagram (1) 286:12;326:20; 332:13;371:10,15,19 downents (1) 304:9 economic (5) 377:16 employees (1) 384:7 downents (1) 317:9 downents (2) 307:34 351:15,23;375:11, 299:1 285:12;328:4; economical (1) 382:23;381:8; 392:2 285:12;328:4; economics (5) 332:5;390:5 endiffer (1) <td></td> <td></td> <td></td> <td></td> <td></td>					
348:5,14;349:7 distributed (4) 357:8;382:8,20 283:14 easel (3) 278:9 328:23 distribution (5) 381:21;392:2,5,6 downloaded (1) 278:89 else (4) 328:23 381:23;382:22; downstream (1) 288:8;323:11,18 else (4) 330:19;351:11; 391:24;392:13;393:5 300:1 377:24 353:18;360:18 3376:7 391:18,20,24 distributions (9) 386:15;394:23 Easter (1) 288:19;289:22; detriment (2) 381:18,20,24 386:15;394:23 Easter (1) 281:10 detrimental (3) 296:2 290:24;299:17 east (2) 298:8 emission (1) 364:18 366:16 304:9 280:19;35:21 281:14;331:10 Emphasis (1) 386:16 304:9 ecological (3) 377:16 empty (1) 363:18 dised (2) 332:13;371:10,15,19 documents (6) 275:2;373:14 375:11,15,16 empty (1) 384:7 documents (1) 289:25,25;290:3,7 drink (2) economical (1) 382:23;344:3,5,6; 337:9	,				
determination (1) 391:21;392:2,5,6 downloaded (1) easel (3) 278:9 determine (7) 381:23;382:22; 376:13 288:8;323:11,18 else (4) 330:19;351:11; 373:7:377:18;378:6; 381:23;382:22; 300:1 377:24 353:18;360:18 383:16;389:5 376:7 382:21;383:15; Dr (2) 292:24 288:19;289:22; 335:18 detriming (1) 382:21;383:15; Dr (2) 386:15;394:23 Easter (1) 281:10 detrimental (3) 293:3;347:3.4 278:11 302:14 298:8 easy (1) 281:10 development (1) 364:18 386:16 304:9 ecological (3) 363:18 employees (1) 384:7 286:12;326:20; 332:13;371:10,15,19 drink (2) 375:13 375:13 289:25,25;290:3,7 290:14 290:29:28 enployees (1) 384:7 384:7 384:7 317:9 317:9 317:9 317:9 317:9 317:9 327:23;341:35,56; 332:25;331:7,8; 332:25;331:7,8; 330:11,333:14; 332:25;331:7,8; 36					
328:23 determine (7) 381:23;382:22; 391:24;392:13;393:5 downstream (1) 292:24 288:19;289:22; 335:18;360:18 easily (1) 279:22;280:22; 355:18;360:18 easily (1) 279:22;280:22; 355:18;360:18 easily (1) 279:22;280:22; 355:18;360:18 easily (1) 279:22;280:22; 355:18;360:18 easily (1) 288:19;289:22; 355:18 emission (1) 287:4 296:2 290:24;299:17 detriment (2) ditching (1) 290:24 290:19,20;291:8 emission (1) 291:10 drainage (1) 365:18 emission (2) 288:19;289:22; 335:18 emission (1) 287:4 278:11 302:14 easily (1) 365:7 Emphasis (1) 287:4 286:12;326:20; 332:13;371:10,15,19 drainage (1) 304:25;322:8 document (6) 287:4 286:12;326:20; 332:13;371:10,15,19 document (1) 384:7 document (1) 318:2 document (1) 382:23;3341:3,5,6; 343:23;25;344:8,14; 352:33;17.8; 353:25;344:8,14; 354:8;378:9,11,12; 310:11;313:5; 365:22;368:2 difference (17) 382:24;387:8,10; 382:24;387:8,10; 332:16;333:14; difference (12) 357:12,14;358:2,3; 366:8,12,13,14; driving (1) education (3) engineer (2) engaged (1) driving (1) education (3) engineer (2)					
determine (7) 381:23;382:22; downstream (1) easily (1) 279:22;280:2; 353:18;360:18 377:737:18;378:6; 378:66,8;381:19; downtown (1) 288:19;289:22; 288:19;289:22; 355:18 emission (1) 355:18 determining (1) 382:21;383:15; 391:18,20,24 386:15;394:23 drain (2) 290:19,20;291:8 emission (1) 281:10 detriment (2) ditching (1) drain (2) 290:24;299:17 dester (1) 281:10 emission (2) 389:14,17 296:2 290:24;299:17 destre (1) 365:7 Emphasis (1) 281:14;331:10 Emphasis (1) 365:7 Emphasis (1) 363:18 employees (1) 377:16 employees (1) 385:12;323:34:34:34 <					
330:19;351:11; 373:7;377:18;378:6; 383:16;389:5 determining (1) 376:7 detriment (2) ditching (1) 296:2 389:14,17 detrimental (3) 293:3;347:3,4 development (1) 364:18 366:16;369:19 deterwinent (2) 389:14,17 detrimental (3) 293:3;347:3,4 278:11 Doctor (1) 386:16 diagram (1) 287:4 dissel (2) 330:18;394:23 dissel (3) 364:18 diagram (1) 287:4 dissel (2) 330:18;394:23 dissel (3) 365:16;368:12; 366:8,12;31:371:10,15,19 documents (1) 384:7 differ (1) 318:2 documents (1) 327:24 288:19;289:22; 335:18 290:19,20;291:8 emission (1) 298:8 emissions (2) 281:10 281:10 281:10 281:10 281:10 281:10 281:10 281:10 365:7 Emphasis (1) 287:11,15,16 employees (1) 377:16 employees (1) 365:17 emply (1) 377:16 employees (1) 385:18;360:18 east (5) 290:19,20;291:8 emission (1) 281:10 281:10 281:10 281:10 281:10 281:10 291:1 easy (1) 365:7 Emphasis (1) 377:16 employees (1) 377:16 emission (2) 281:14;33:10 281:14;33:10 290:61,4 4rained (1) 375:11,15,16 employees (1) 349:16;362:17; emply (1) 285:12;328:4; drink (2) 290:6,14 drink (2) 393:21 economicall (1) 393:21 285:12;328:4; drivers (2) 351:15,23;375:11, 389:25 emission (1) 281:10 emission (2) 385:18 emission (1) 281:10 281:10 emission (2) 385:11,15,16 employees (1) 377:16 employees (1) 377:16 employees (1) 349:16;362:17; emply (1) 349:12;385:21 291:1 economicall (1) 386:15,394:23 375:19,19,385:21 291:1 economicall (1) 384:12,332:53,390:5 ending (2) 332:53,390:5 ending (1) 349:22;351:18 382:12,32 382:24;387:8,10; 382:24;387:8,10; 382:24;387:8,10; 382:12,32 382:12,333:14; 382:12,32 382:12,333:14; 382:12,32 382:12,333:14; 382:12,32 382:12,333:14; 382:12,32 382:12,333:14; 382:12,32 382:12,333:14; 382:12,32 382:12,333:14; 382:12,32 382:12,333:14; 382:12,32 382:12,31,14; 4rink (2) 290:19 290					
373:7;377:18;378:6; 383:16;389:5 378:66,8;381:19; 378:66,8;381:19; 378:21;383:15; 376:7 391:18,20,24 diching (1) 290:24 290:19,20;291:8 emission (1) 281:10 emission (1) 281:10 emission (2) 281:14;331:10 emission (3) 281:14;331:10 emission (2) 281:14;331:10 emission (3) 281:14;331:10 emission (3					
383:16;389:5 378:6,6,8;381:19; 292:24 288:19;289:22; 335:18 determining (1) 382:21;383:15; 391:18,20,24 386:15;394:23 Easter (1) 281:10 detriment (2) ditching (1) drain (2) 298:8 easy (1) 281:10 389:14,17 296:2 290:24;299:17 easy (1) 281:10 emission (2) detrimental (3) divide (1) drainage (1) 365:7 Emphasis (1) 281:10 293:3;347:3,4 278:11 302:14 ecological (3) 363:18 employees (1) 364:18 366:16 304:9 economic (5) a77:16 employees (1) 364:18 286:12;326:20; 349:16;362:17; 275:2;373:14 375:19,19;385:21 291:1 diesel (2) 304:25;322:8 documentation (1) 318:2 drink (2) 290:6,14 393:21 285:12;328:4; difference (17) 317:9 documents (1) 370:14 economical (1) 334:20;335:2;390:9 343:23;25;344:8,14; 352:33:17,8; 367:22;368:2 economy (2)					
determining (1) 382:21;383:15; Dr (2) 290:19,20;291:8 emission (1) 376:7 391:18,20,24 drain (2) 286:15;394:23 298:8 emissions (2) detriment (2) divide (1) drain (2) 290:24;299:17 easy (1) 281:1(331:10 detrimental (3) divide (1) drainage (1) 365:7 Emphasis (1) 281:14;331:10 development (1) Doctor (1) 302:14 ecological (3) 363:18 employees (1) diagram (1) 386:16 304:9 275:2;373:14 375:11,15,16 employees (1) disel (2) 332:13;371:10,15,19 drink (2) 275:2;373:14 375:19,19;385:21 end (5) 384:7 documents (1) 289:25,25;290:3,7 drive (2) 393:21 economical (1) 334:20;335:2;390:9 343:23,25;344:8,14; 287:14;296:1,3; 307:3,4 351:15,23;375:11, 329:25 332:5390:5 388:21,22 330:11;331:4; 377:11;284:23; 349:22;351:18 economy (2) 349:22;351:18 enforce (1) 349:26;338:18,10; 329:25;331:7,8					
376:7 detriment (2) 389:14,17 296:2 290:24;299:17 detrimental (3) 293:3;347:3,4 278:11 302:14 diagram (1) 364:18 386:16 304:9 287:4 286:12;326:20; 275:2;373:14 differ (1) 384:7 differ (17) 384:7 difference (17) 327:23;341:3,5,6; 343:23,25;344:8,14; 388:21,22 differences (12) 388:21,22 differences (12) 367:16;368:12; 366:8,12;13,14; drink (2) 277:11;284:23; 366:8,12;13,14; driving (1) drivi					
detriment (2) ditching (1) drain (2) 298:8 emissions (2) 389:14,17 296:2 290:24;299:17 desay (1) 281:14;331:10 detrimental (3) divide (1) drainage (1) 365:7 Emphasis (1) 293:3;347:3,4 278:11 302:14 ecological (3) 363:18 development (1) 364:18 386:16 304:9 economic (5) 377:16 diagram (1) document (6) draw (2) 349:16;362:17; employees (1) 287:4 286:12;326:20; 275:2;373:14 375:19,19;385:21 291:1 disel (2) 332:13;371:10,15,19 drink (2) economical (1) 289:25,25;290:3,7 differ (1) 318:2 drinking (4) 393:21 285:12;328:4; difference (17) 317:9 drive (2) economics (5) 332:5;3390:5 343:23,25;344:8,14; 287:14;296:1,3; drive (2) 351:15,23;375:11, ending (2) 388:21,22 322:25;331:7,8; driveways (3) 349:22;351:18 egonomy (2) a26:11 388:21,22	376:7				
389:14,17 296:2 290:24;299:17 easy (1) 281:14;331:10 detrimental (3) 293:3;347:3,4 divide (1) 302:14 ecological (3) 363:18 development (1) 364:18 386:16 drained (1) 375:11,15,16 employees (1) diagram (1) 287:4 286:12;326:20; 275:2;373:14 375:19,19;385:21 empty (1) diesel (2) 332:13;371:10,15,19 documentation (1) 4rink (2) economical (1) end (5) 384:7 documents (1) 289:25,25;290:3,7 370:14 economically (1) 334:20;335:2;390:9 difference (17) 317:9 drive (2) 307:3,4 351:15,23;375:11, ending (2) 343:23,25;344:8,14; 287:14;296:1,3; 367:22;368:2 economy (2) 389:25 388:21,22 332:15;333:14; 367:22;368:2 economy (2) 389:25 388:21,22 357:12,14;358:2,3; 366:8,12,13,14; 377:11;284:23; edge (1) a99:19 enforce (1) 366:8,12,13,14; 366:8,12,13,14; driving (1) education (3) engineer (2					
detrimental (3) divide (1) drainage (1) 365:7 Emphasis (1) 293:3;347:3,4 278:11 302:14 ecological (3) 363:18 development (1) 386:16 304:9 economic (5) 377:16 diagram (1) 287:4 286:12;326:20; 275:2;373:14 375:19,19;385:21 291:1 disel (2) 332:13;371:10,15,19 drink (2) economical (1) 290:6,14 393:21 285:12;328:4; differ (1) 318:2 drinking (4) 289:25,25;290:3,7 370:14 economically (1) 334:20;335:2;390:9 difference (17) 317:9 done (22) 307:3,4 351:15,23;375:11, 9 343:23,25;344:8,14; 287:14;296:1,3; 367:22;368:2 economy (2) 389:25 388:21,22 322:4;387:8,10; 320:25;331:7,8; 367:22;368:2 economy (2) a49:22;351:18 differences (12) 357:12,14;358:2,3; 366:8,12,13,14; 277:11;284:23; 299:19 a40:3 367:16;368:12; 366:8,12,13,14; driving (1) education (3) engineer (2) </td <td></td> <td></td> <td></td> <td></td> <td></td>					
293:3;347:3,4 development (1) 364:18		divide (1)			Emphasis (1)
364:18 386:16 304:9 economic (5) 377:16 diagram (1) 287:4 286:12;326:20; 275:2;373:14 375:19,19;385:21 291:1 diesel (2) 332:13;371:10,15,19 drink (2) economical (1) end (5) 384:7 documentation (1) 318:2 drinking (4) economically (1) 334:20;335:2;390:9 difference (17) 317:9 drive (2) economics (5) 332:5;390:5 343:23;25;344:8,14; 287:14;296:1,3; drivers (2) 351:15,23;375:11, ending (2) 382:24;387:8,10; 320:25;331:7,8; 367:22;368:2 economy (2) enforce (1) 388:21,22 357:12,14;358:2,3; 336:4 299:19 edge (1) engaged (1) differences (12) 367:16;368:12; 366:8,12,13,14; driving (1) education (3) engineer (2)	293:3;347:3,4	278:11	302:14	ecological (3)	
364:18 386:16 304:9 economic (5) 377:16 diagram (1) 287:4 286:12;326:20; 275:2;373:14 375:19,19;385:21 291:1 diesel (2) 332:13;371:10,15,19 drink (2) economical (1) end (5) 304:25;322:8 documentation (1) 290:6,14 393:21 285:12;328:4; differ (1) 318:2 drinking (4) economically (1) 334:20;335:2;390:9 difference (17) 317:9 drive (2) economics (5) 332:5;390:5 343:23;25;344:8,14; 287:14;296:1,3; 307:3,4 351:15,23;375:11, ending (2) 354:8;378:9,11,12; 310:11;313:5; 367:22;368:2 economy (2) enforce (1) 388:21,22 322:16;333:14; 277:11;284:23; 349:22;351:18 326:11 differences (12) 357:12,14;358:2,3; 336:4 299:19 340:3 367:16;368:12; 366:8,12,13,14; driving (1) education (3) engineer (2)					employees (1)
287:4	364:18	386:16	304:9	economic (5)	377:16
diesel (2) 332:13;371:10,15,19 drink (2) economical (1) 290:6,14 393:21 285:12;328:4; differ (1) 318:2 drinking (4) economically (1) 334:20;335:2;390:9 384:7 documents (1) 289:25,25;290:3,7 drive (2) 370:14 ending (2) 327:23;341:3,5,6; done (22) 307:3,4 economics (5) 332:5;390:5 343:23,25;344:8,14; 287:14;296:1,3; drivers (2) 351:15,23;375:11, ends (1) 354:8;378:9,11,12; 310:11;313:5; 367:22;368:2 economy (2) enforce (1) 388:21,22 320:25;331:7,8; driveways (3) 349:22;351:18 326:11 388:21,22 357:12,14;358:2,3; 366:8,12,13,14; 277:11;284:23; edge (1) engaged (1) differences (12) 366:8,12,13,14; driving (1) education (3) engineer (2)			, ,		
304:25;322:8 documentation (1) 290:6,14 393:21 285:12;328:4; differ (1) 318:2 drinking (4) 334:20;335:2;390:9 384:7 documents (1) 289:25,25;290:3,7 370:14 ending (2) 327:23;341:3,5,6; 317:9 drive (2) 307:3,4 351:15,23;375:11, ends (1) 343:23,25;344:8,14; 287:14;296:1,3; drivers (2) 351:15,23;375:11, ends (1) 354:8;378:9,11,12; 310:11;313:5; 367:22;368:2 economy (2) enforce (1) 388:21,22 320:25;331:7,8; 320:25;331:7,8; 349:22;351:18 326:11 388:21,22 357:12,14;358:2,3; 366:8,12,13,14; 277:11;284:23; edge (1) engaged (1) differences (12) 366:8,12,13,14; driving (1) education (3) engineer (2)			275:2;373:14	375:19,19;385:21	
differ (1) 318:2 drinking (4) economically (1) 334:20;335:2;390:9 384:7 documents (1) 289:25,25;290:3,7 370:14 ending (2) 327:23;341:3,5,6; 317:9 done (22) 307:3,4 351:15,23;375:11, ends (1) 343:23,25;344:8,14; 287:14;296:1,3; driver (2) 351:15,23;375:11, ends (1) 354:8;378:9,11,12; 310:11;313:5; 367:22;368:2 economy (2) enforce (1) 382:24;387:8,10; 320:25;331:7,8; driveways (3) 349:22;351:18 326:11 388:21,22 332:16;333:14; 277:11;284:23; edge (1) engaged (1) differences (12) 357:12,14;358:2,3; 366:8,12,13,14; driving (1) education (3) engineer (2)					
384:7 documents (1) 289:25,25;290:3,7 370:14 ending (2) 327:23;341:3,5,6; 317:9 done (22) 307:3,4 351:15,23;375:11, ends (1) 343:23,25;344:8,14; 287:14;296:1,3; drivers (2) 15,16 389:25 354:8;378:9,11,12; 310:11;313:5; 367:22;368:2 economy (2) enforce (1) 388:21,22 320:25;331:7,8; driveways (3) 349:22;351:18 326:11 388:21,22 357:12,14;358:2,3; 366:8,12,13,14; 277:11;284:23; edge (1) engaged (1) 367:16;368:12; 366:8,12,13,14; driving (1) education (3) engineer (2)					
difference (17) 317:9 drive (2) economics (5) 332:5;390:5 327:23;341:3,5,6; done (22) 307:3,4 351:15,23;375:11, ends (1) 343:23,25;344:8,14; 287:14;296:1,3; drivers (2) 15,16 389:25 354:8;378:9,11,12; 310:11;313:5; 367:22;368:2 economy (2) enforce (1) 388:21,22 320:25;331:7,8; driveways (3) 349:22;351:18 326:11 388:21,22 332:16;333:14; 277:11;284:23; edge (1) engaged (1) differences (12) 357:12,14;358:2,3; 336:4 299:19 340:3 367:16;368:12; 366:8,12,13,14; driving (1) education (3) engineer (2)					
327:23;341:3,5,6; done (22) 307:3,4 351:15,23;375:11, ends (1) 343:23,25;344:8,14; 287:14;296:1,3; drivers (2) 15,16 389:25 367:22;368:2 economy (2) enforce (1) 382:24;387:8,10; 320:25;331:7,8; driveways (3) 349:22;351:18 326:11 engaged (1) differences (12) 357:12,14;358:2,3; 366:8,12,13,14; driving (1) education (3) engineer (2)					
343:23,25;344:8,14; 287:14;296:1,3; 367:22;368:2 367:22;368:2 367:22;368:2 320:25;331:7,8; 320:25;331:7,8; 320:25;331:4; 332:16;333:14; 357:12,14;358:2,3; 367:16;368:12; 366:8,12,13,14; driving (1) 45,16 4389:25 467:000my (2) 467:000 467:					*
354:8;378:9,11,12; 310:11;313:5; 367:22;368:2 economy (2) 320:25;331:7,8; driveways (3) 349:22;351:18 326:11 engaged (1) 320:25;331:4; 357:12,14;358:2,3; 366:8,12,13,14; driving (1) education (3) engineer (2)			,		
382:24;387:8,10; 320:25;331:7,8; driveways (3) 349:22;351:18 326:11 388:21,22 332:16;333:14; 277:11;284:23; edge (1) engaged (1) differences (12) 357:12,14;358:2,3; 336:4 299:19 340:3 367:16;368:12; 366:8,12,13,14; driving (1) education (3) engineer (2)				*	
388:21,22 332:16;333:14; 277:11;284:23; edge (1) engaged (1) differences (12) 357:12,14;358:2,3; 336:4 299:19 340:3 367:16;368:12; 366:8,12,13,14; driving (1) education (3) engineer (2)			*		
differences (12) 357:12,14;358:2,3; 336:4 299:19 340:3 367:16;368:12; 366:8,12,13,14; driving (1) education (3) engineer (2)				-	
367:16;368:12; 366:8,12,13,14; driving (1) education (3) engineer (2)					
570.20,501.20,21,22, 574.7,570.22, 204.12 575.0,570.25, 202.10;520:0					
		317.1,310.22,	20T.12	313.0,310.23,	202.10,320.0

Tradison County Board	or rajustificates	1	1	1.1uj 0,2013
enjoy (1)	389:13;392:4	expect (8)	fastest (1)	361:5;362:4;364:4;
385:23	estimating (1)	279:21;297:10;	331:8	376:25;377:10;
Enka (1)	375:12	319:23;331:4;	favor (1)	378:8,9,14,25;
378:25	evaluations (1)	342:17;344:23;	314:20	381:16;383:14
enough (3)	362:7	364:12,14	February (5)	five- (2)
299:11;307:7;	even (10)	expected (1)	283:13;285:7;	347:20;354:4
373:13	276:14;277:1,2,13;	278:3	308:25;309:1,15	five-mile (11)
ensure (1)	278:25;279:23;	expensive (3)	feet (27)	340:21;341:2,4;
314:14	351:14;354:9;362:3;	328:5;392:9,20	284:5,6;293:13,18;	342:4;344:15,25;
enter (2)	370:25	expert (2)	304:22;311:3,4,5,6;	352:14;354:17;
277:24;288:13	evening (2)	280:21;339:25	312:8,14,16;313:21,	361:19;362:9;370:3
*			25;315:1,5,15,15;	fixed (6)
entire (3)	273:10,22	Explain (7)		
377:23;386:25;	event (1)	300:10;334:13;	366:6;367:1;370:5,7;	319:24;320:9,13,
388:14	294:5	379:20,23;380:1;	374:25;375:6;	14,15,18
entity (1)	events (1)	381:12,13	390:15,15,16	flip (1)
386:5	377:12	externalities (1)	FEMALE (1)	337:21
entrance (2)	everybody (3)	375:20	317:18	flip-flopped (1)
287:15;325:11	318:5;331:21;	externality (2)	few (7)	320:9
entrepreneur (1)	338:4	375:21,23	277:11;297:16;	flood (1)
380:25	everyone (1)	extra (6)	298:17;309:19;	294:5
entry (1)	273:25	276:15;277:21;	337:8;357:9;364:3	flow (2)
319:2	everywhere (4)	282:13;312:21;	Fifty (1)	287:11,18
environment (1)	312:17;313:22,24;	337:7,8	390:15	fly (1)
349:17	392:23	exuberance (1)	figure (1)	307:2
Environmental (3)	evidence (8)	345:3	384:7	focus (1)
283:3;375:9,12	311:2;318:17;	eye (4)	figures (1)	375:11
EPA (3)	319:2;322:3;323:4;	290:8,10,11;	348:5	focused (1)
301:22,23,23	370:20;374:2,8	290:3,10,11,	file (3)	375:16
	exact (1)		335:2;394:6,16	
equal (1)		eyes (5)		focusing (1)
367:23	309:12	290:14,15,19;	fill (4)	282:3
equally (1)	exactly (9)	291:5,15	277:7;324:24;	folks (7)
367:22	306:8;307:22;	eyesight (1)	325:2;335:20	274:10,22;289:1;
equate (1)	318:23;323:19;	379:7	final (2)	292:1;297:11;
393:22	324:7;336:18;	eyewash (3)	312:25;346:24	346:10;367:24
equation (2)	347:19;358:17;	290:23,25;291:1	finally (1)	follow (1)
361:23;362:18	360:21		379:3	274:2
equipment (2)	examined (2)	\mathbf{F}	finance (1)	following (5)
289:5,7	339:3;374:15		334:17	273:6;282:19;
equity (1)	example (1)	facilities (2)	find (9)	342:8,14,23
381:1	343:19	370:12;371:17	314:16;341:22;	follows (2)
equivalent (1)	Excel (1)	facility (8)	357:10,18;378:21;	339:3;374:15
363:22	363:2	279:13,15,17;	393:4,12,15;395:8	follow-up (1)
Ernest (1)	Except (1)	289:10;292:12;	findings (1)	341:19
273:18	368:21	297:24;365:2;366:8	342:10	follow-ups (1)
erosion (4)	exception (1)	fact (3)	fine (3)	303:25
296:5;298:22;	281:24	306:3;312:5;	292:22;300:14;	foot (10)
308:4,14	Excuse (1)	351:22	310:12	294:13;311:7;
error (1)	284:14	facts (1)	Fines (1)	315:8,11,13;324:11,
286:24	Exhibit (33)	319:19	393:2	13,14,16,17
errors (2)	281:4,16;282:8;	fails (1)	finish (2)	force (1)
310:18;311:22	287:19,20;294:19,21;	315:18	279:6;318:10	330:17
especially (1)	310:13,14,25;311:1,	fall (3)	first (6)	Forest (1)
293:14	14;318:8;321:1,3;	337:16;361:22;	317:20;339:2;	373:21
	322:1,2,9,10;323:2,3,	362:2	341:24;342:1;	
essence (1) 335:6	9,18;328:24;329:19;			forget (1) 334:19
		familiar (2)	358:14;374:14	
essential (1)	340:9;373:1,5,7,10;	374:19;376:3	fish (1)	forgot (1)
392:7	374:1;377:4,5	far (4)	375:10	320:16
established (5)	exhibits (3)	302:24;304:25;	fishing (1)	Form (4)
296:10,16,17;	329:1,2,3	325:15;327:19	331:25	281:9;310:1;
354:21;355:6	existence (2)	farm (1)	five (19)	316:14;335:20
estate (9)	377:20;380:4	393:3	281:20;282:23;	formation (1)
375:13,24;376:24;	exit (1)	fast (3)	331:4;338:6;339:18;	305:11
204.2 2 12.205.2.	277:24	382:11,12,13	350:9;351:7;358:23;	forward (5)
384:2,3,13;385:3;	211:24	302.11,12,13	550.5,551.7,550.25,	101 (6)

				<u> </u>
318:1;319:3;	368:14;395:2,3,9	greatly (1)	353:8;354:2,14;	322:21;327:9;
· · · · · · · · · · · · · · · · · · ·				
332:14;343:17;	generalization (1)	384:5	358:25;360:14;	340:16;365:20;
395:14	351:22	ground (2)	361:1;364:11	366:20;367:7,17,22;
found (14)	generally (1)	291:9;297:19	hand (7)	368:13;372:10,18,19
358:19;378:2,8,11,	395:6	group (1)	274:7;290:5;	Hendersonville (14)
		294:24		
12,23,25;379:1,13,	geographical (1)		294:24;304:18;	322:15,16,17;
20;383:5;384:8,10;	346:25	grouping (1)	305:4;370:18;377:3	323:19;341:20;
388:20	Germany (1)	367:20	handing (1)	365:16;367:25;
four (17)	377:2	Grovestone (1)	370:24	373:23;379:1,13,19;
279:1;304:1,17;	gets (8)	364:16	hands (4)	384:9,11,15
322:5;328:5;342:8;	283:13;285:8;	growing (2)	274:8;290:6;291:5;	here's (1)
343:7;349:14;	287:12;290:8;300:2;	302:24;345:4	356:19	332:4
350:25;351:7,16;	301:1;335:12;362:17	guess (7)	happen (3)	hey (1)
357:13,13;364:25;	GIS (2)	275:22;294:16;	277:14,15;320:22	355:13
366:12;378:9,14	374:24;385:11	297:22;311:18;	happened (3)	high (2)
four-lane (2)	given (5)	312:23;335:5;338:17	300:18;350:2,3	284:10,12
284:1,5	332:23;334:4;	GULDEN (61)	happening (3)	higher (13)
Fourteen (3)	367:11;368:19;372:2	274:19,20,21;	350:14;352:24;	342:15,24;343:2,
280:10,14;285:22	gives (3)	281:17;286:16;	362:20	11;353:9;358:21,25;
French (2)	279:15;321:13;	294:18;296:15;	happy (2)	359:2;360:8,11,14;
333:22;375:23	352:4	298:4;303:24;	305:20;317:8	390:7;391:11
Friday (6)	giving (1)	304:19;305:24;	hard (8)	highest (1)
	351:10			339:15
279:20;294:5;		306:2,8,11,13,17,20;	289:8;300:15;	
298:8;309:16,18;	goes (11)	307:15,19;308:3,11;	301:1;305:3;349:19;	highlighted (1)
324:20	284:4,7;291:5,6;	310:17;311:15,18;	364:3;377:16;390:24	385:20
front (5)	301:10;304:21;	313:2;314:10,12;	hardest (1)	Highway (11)
288:9;312:16;	344:4;353:10;357:7;	315:2,7,9,17;316:22;	279:25	322:17,18;324:1;
313:25;323:12;	366:17;381:11	317:25;319:1,6,13;	hate (1)	347:24;355:1;
378:17	Goldenview (1)	320:3;323:13;	291:21	362:10;364:9;365:6;
	326:16			
fuel (5)		326:12,14;328:19,24;	hats (1)	368:22;372:10;
275:9;304:25;	Goldview (1)	329:10;332:17;	289:8	379:19
322:5,5,8	321:7	338:2;363:10;364:2;	hat's (1)	hill (2)
full (3)	Good (9)	370:22;371:6,14;	334:22	293:16;390:10
282:18;330:17;	273:10;285:13;	374:4,7,10,16;	hazardous (5)	historic (1)
338:15	286:20;294:5;298:7;	379:11;382:10;	290:9;291:4,8,14,	356:11
full-on (1)	305:22;309:14;	386:12;394:7,12,15,	18	historical (5)
338:20	313:10;353:18	21	hazards (2)	347:23;348:12;
fumes (1)	Google (1)	guy (5)	375:12,18	349:10;356:11;
297:7	382:2	280:25;303:18;	head (6)	366:11
funneled (1)	gotcha (1)	322:20;328:11;364:1	334:12;337:22;	hit (1)
301:9	314:4	guys (5)	345:16,18;369:20;	349:22
further (5)	government (2)	287:9;332:16;	381:25	hits (1)
341:19;342:19;	336:14,16	372:12;393:19;394:2	health (2)	331:12
		372.12,373.17,374.2	389:22;393:21	
360:17;374:4;394:22	governmental (2)	TT		hold (2)
	332:4;386:5	H	hear (14)	299:17;318:9
\mathbf{G}	grade (1)		273:16;280:1;	holding (2)
	363:14	half (27)	316:19;318:17;	274:7;300:22
gain (2)	grading (2)	285:15,17,18;	323:14;325:14,15,18;	hole (1)
336:17;393:21	296:1;309:7	336:19,19,20;340:20,	382:12,12;388:24;	305:10
gamble (4)	graduate (1)	20;341:1,4;342:4;	389:1,1,5	home (2)
393:19,20,22;	376:25	343:9,24;344:14;	heard (2)	374:22;381:1
394:2	grant (1)	347:20;358:21;	296:4;329:6	homeowners (1)
gambling (1)	279:16	360:9,11;361:18;	Hearing (8)	385:23
393:21	granting (1)	362:8;370:2;378:20;	273:3,13;274:4,6;	homes (7)
gather (1)	317:12	386:2;387:15,16;	311:20;313:12;	324:11,16;383:12;
356:1	graphed (1)	392:3,3	328:9;346:13	388:8,11,11,13
gathered (1)	383:14	half- (1)	heavy (2)	honestly (1)
380:2	gravel (1)	345:12	301:11;389:21	354:7
gave (4)	336:23	half-mile (20)	height (1)	hopefully (1)
		, ,		
314:16;348:5;	great (3)	342:12,13,15,18,	287:5	336:22
379:21;391:9	332:19;362:14,24	24;343:2,11,20;	help (1)	hoping (1)
general (8)	greater (1)	344:24;345:15;	389:16	336:18
339:8,11,16;367:4;	346:2	346:1,3;352:12;	Henderson (12)	horse (1)

	J			, ,
300:13	347:15;349:1	283:19;344:3,9,12;	363:12	
hot (4)	impact (50)	345:8,20,24;346:2;	intense (3)	K
281:11,11;291:17;	278:17;283:24;	354:1,1;365:18	329:23,24;330:4	K
383:9	341:14,18,19;342:6,	increased (2)	intensity (1)	TT (4)
hour (19)		343:18;345:23	329:21	Karen (1)
	16,20;343:5,13,13;			273:15
275:19,23,25;	344:1,17,18,22;	increases (1)	interest (1)	Keep (4)
276:12;277:1;278:5,	346:5;347:5;350:7,8,	277:23	319:11	298:25;369:5;
22;279:18;282:10,	17;352:10,17;353:2,	increasing (1)	interested (1)	394:1,9
24;321:12;322:24,	24;354:16;359:24;	353:19	381:8	KIEHNA (33)
25;325:6;329:13;	360:5,24;361:7,10;	Indeed (4)	interpreted (1)	273:10,15;298:3,5,
330:7;331:6;338:6,	364:5,13;367:5,9;	376:5,11;378:18;	313:23	11,19;300:11;
15	368:6,8,14,17,19,20,	390:12	into (33)	305:22;307:13,18;
hours (16)	23,25;369:4;370:4;	index (1)	274:6;284:5;	314:7;318:19,22;
276:13;278:5,8,9;	375:12;376:8;380:7;	392:7	287:12;290:24;	328:21;329:8;
281:20;282:22;	381:16;383:6;393:25	indicate (1)	291:5,6,16;297:6,8,9;	332:13;337:2,10,13,
310:4;324:19;328:5;	impacted (2)	280:5	299:3;304:9;307:11;	
329:11,25;330:8,14;	385:8;394:1	indicated (4)	311:2,20;319:2,18;	15,21,25;346:9,17;
331:4;338:7,15	impacting (1)	296:20;303:25;	322:3;323:4;331:19;	361:13;371:3,12;
	361:10	, , ,	336:21;355:7;	372:17,24;374:5,11;
house (8)		364:4;380:20		394:19;395:12
288:23;324:17;	implying (2)	indicates (1)	360:16,18;368:1;	kind (13)
375:3;380:20;	330:16,17	275:17	374:2;375:17;	275:2;284:11;
393:14,16,23,24	important (1)	indicating (1)	376:11,12;378:4;	297:17,23;302:5;
houses (3)	381:1	371:16	382:2;383:13;390:23	304:7;306:21;325:1;
390:3;392:9,20	impression (1)	indicator (1)	introduce (1)	357:21,24;362:1;
housing (2)	289:14	365:17	328:8	382:17;395:2
353:19;354:8	improperly (1)	individual (1)	introduced (1)	knew (7)
How's (1)	313:23	346:20	326:15	287:1,1;355:13,14;
321:21	inaccuracies (1)	individuals (3)	introducing (2)	377:24;389:8,10
huge (4)	315:22	292:10;293:11;	274:21;370:20	
299:13;301:14,14;	inaccurate (2)	315:21	investigation (1)	knowing (2)
304:21	275:6;286:10	industrial (15)	325:21	337:15;385:2
hundred (1)	inaudible (20)	290:1,2,13,21;	involved (1)	knowledge (4)
324:14	273:9;279:7;287:7;	315:25;340:22;	354:9	309:25;370:11;
				371:4,24
hurt (1)	288:15;289:6;	341:9;364:18,24,25;	issue (8)	known (2)
304:23	291:23;292:19;	365:4;369:13,15;	291:7;312:20;	317:1,2
Hyder (2)	293:24;295:11;	370:1;390:1	313:12;314:1,2;	knows (3)
273:21;312:24	311:12;320:7,24;	inflation (1)	318:16;319:7;320:11	370:24;371:9,12
hypothesis (2)	321:17;322:6;	372:23	issues (5)	
384:2,4	323:10,20;326:11;	information (11)	313:10,11;316:11;	\mathbf{L}
	329:15;336:21;358:9	281:10,13;316:12;	319:21;324:18	_
Ι	inches (2)	355:25;362:25;		lab (6)
	311:4,8	365:23;372:2,9;	J	289:22;290:12,19,
idea (2)	include (3)	373:13,14;380:2		20;291:8;292:6
305:23;332:1	275:9;339:20;	initial (4)	Jamie (1)	
identification (7)	369:25	346:19;347:11,18;	289:18	labeled (1)
281:5;294:22;	included (4)	348:19	jaw (2)	311:13
310:15;321:4;	287:20;340:15;	innovation (2)	325:16,19	labels (1)
322:11;373:2;377:6	365:14;375:20	390:2,5		310:24
	-	· · · · · · · · · · · · · · · · · · ·	Jeff (3)	laborious (1)
identified (4)	includes (1)	innuendo (1)	273:21;312:23;	366:3
280:21;295:20;	340:22	305:16	385:12	land (3)
339:3;374:15	inclusion (1)	inside (5)	job (3)	312:21;390:23;
identify (5)	368:18	287:18;290:16;	277:6;279:21;	393:1
295:1;310:13;	income (1)	304:12,14;305:5	334:14	lane (4)
	income (1)			
321:2;322:13;377:8	385:22	inspected (2)	jobs (5)	284:3.3.4:288:12
321:2;322:13;377:8 idle (3)	, ,	inspected (2) 303:3,6	jobs (5) 284:20;309:6;	284:3,3,4;288:12 lanes (1)
idle (3)	385:22	303:3,6	284:20;309:6;	lanes (1)
idle (3) 325:4,5;326:4	385:22 incorporate (1) 376:18	303:3,6 instead (3)	284:20;309:6; 333:14;334:6;336:3	lanes (1) 284:4
idle (3) 325:4,5;326:4 illegal (2)	385:22 incorporate (1) 376:18 incorporating (1)	303:3,6 instead (3) 312:18;348:15;	284:20;309:6; 333:14;334:6;336:3 JPEG (1)	lanes (1) 284:4 language (6)
idle (3) 325:4,5;326:4 illegal (2) 306:15,18	385:22 incorporate (1) 376:18 incorporating (1) 375:16	303:3,6 instead (3) 312:18;348:15; 391:19	284:20;309:6; 333:14;334:6;336:3 JPEG (1) 359:22	lanes (1) 284:4 language (6) 378:5;382:6,17;
idle (3) 325:4,5;326:4 illegal (2) 306:15,18 illegally (1)	385:22 incorporate (1) 376:18 incorporating (1) 375:16 incorrect (5)	303:3,6 instead (3) 312:18;348:15; 391:19 Institute (2)	284:20;309:6; 333:14;334:6;336:3 JPEG (1) 359:22 June (1)	lanes (1) 284:4 language (6) 378:5;382:6,17; 383:18,25;387:25
idle (3) 325:4,5;326:4 illegal (2) 306:15,18 illegally (1) 305:15	385:22 incorporate (1) 376:18 incorporating (1) 375:16 incorrect (5) 287:4,5;310:1,5,6	303:3,6 instead (3) 312:18;348:15; 391:19 Institute (2) 339:13,14	284:20;309:6; 333:14;334:6;336:3 JPEG (1) 359:22 June (1) 276:20	lanes (1) 284:4 language (6) 378:5;382:6,17; 383:18,25;387:25 large (1)
idle (3) 325:4,5;326:4 illegal (2) 306:15,18 illegally (1) 305:15 imagine (1)	385:22 incorporate (1) 376:18 incorporating (1) 375:16 incorrect (5) 287:4,5;310:1,5,6 increase (19)	303:3,6 instead (3) 312:18;348:15; 391:19 Institute (2) 339:13,14 insurance (1)	284:20;309:6; 333:14;334:6;336:3 JPEG (1) 359:22 June (1) 276:20 jurisdiction (2)	lanes (1) 284:4 language (6) 378:5;382:6,17; 383:18,25;387:25 large (1) 299:11
idle (3) 325:4,5;326:4 illegal (2) 306:15,18 illegally (1) 305:15	385:22 incorporate (1) 376:18 incorporating (1) 375:16 incorrect (5) 287:4,5;310:1,5,6	303:3,6 instead (3) 312:18;348:15; 391:19 Institute (2) 339:13,14	284:20;309:6; 333:14;334:6;336:3 JPEG (1) 359:22 June (1) 276:20	lanes (1) 284:4 language (6) 378:5;382:6,17; 383:18,25;387:25 large (1)

	J	T		, , , , , , , , , , , , , , , , , , ,
24;279:19;283:13;	8;284:13;321:18;	359:17	305:16;312:17;	management (1)
308:21;309:11;	322:23;338:11	longer (3)	315:2,24;321:20;	363:17
333:6;337:6,8;	limitation (2)	312:20;330:3;	336:9,10,24;357:22;	many (14)
343:19;359:7;	330:5,9	337:17	363:24,24;390:3,23;	278:2;280:12;
377:20;378:4;381:2	limited (2)	longevity (1)	392:9,20	298:11;308:21;
late (2)	329:13,13	359:19	lots (3)	309:19,20;311:3;
311:23;382:9	limiting (1)	look (67)	284:23;336:4,20	324:4;330:14;
later (7)	328:12	281:7;287:16;	loud (2)	346:20,22;354:20;
277:9;279:23;	limits (1)	295:1;306:7,25;	323:16;389:7	355:5;358:19
299:21;313:17,18;	323:20	312:3;313:9;315:21;	louder (1)	map (3)
318:3;319:10	line (6)	317:8;320:12;	389:7	324:10,15;373:8
laughter (1)	296:9;311:7;325:2;	330:25;331:9;338:5;	lower (13)	March (7)
380:19	375:1,2,5	340:11,12,18,19,24,	342:13,17,23;	280:12;283:14;
law (1)	lines (1)	25;341:5;342:3,6;	343:9;344:23;345:1,	284:22;285:18;
316:17	311:8	344:13;345:10;	24;352:12;353:8;	286:8,9;309:3
Laws (11)	liquefies (1)	346:20,23;347:23,25;	354:1;359:10;361:2;	mark (2)
307:16;314:9,24;	297:8	348:22,24;349:2,25;	386:6	294:17;377:4
315:3,8,11;316:16;	liquid (4)	350:1,6,7,10,11,13;	Lynn (6)	marked (7)
317:23;318:12,20;	291:20,21,21;	352:8,20;353:20,23;	339:1,2,7;379:16;	281:5;294:21;
319:1	297:9	355:7;358:17;363:6;	380:18;385:19	310:14;321:3;
lawyers (3)	List (1)	365:8,11,23,25;		322:10;373:1;377:5
305:19;307:16;	289:18	367:13,14,17,19;	M	market (26)
339:21	listen (1)	368:5,9,14;369:7,8,	112	353:17;357:3,11,
lay (1)	382:13	12,22,24,25;370:4,7;	ma'am (1)	18,19;366:10,16;
331:18	listening (1)	373:8,12;393:8	374:6	367:21;368:2;
layout (1)	370:10	looked (31)	Madam (9)	375:17,21;376:9;
273:6	Listing (2)	288:4;293:25;	274:19;294:18;	380:8;383:7,9,10,10,
leads (1)	356:7;376:11	299:21;310:2;	305:14;307:15;	12,16;384:4,6,13,16,
379:25	listings (1)	336:21;343:20;	323:13;328:19;	16,22;385:19
lease (4)	356:10	347:15;348:19;	329:6;346:16;371:1	markets (6)
277:17;310:21;	literally (1)	353:4;354:25;355:5;	Madison (29)	384:2,3,5,7,9,12
312:19;314:2	301:16	358:14;359:8,9,15;	273:2,12;284:8;	Marshall (9)
leased (3)	little (17)	365:24;366:2;369:2,	289:12;312:2;	292:19,24;312:24;
295:7,7;312:21	280:7;285:20;	22;371:22;373:11,	333:24,25;334:2,3,4;	374:13,18;383:13,13;
least (2)	298:1,15;299:1,25;	15;377:11;378:19;	335:7,9,25;336:2,24;	384:8,16
377:15;380:16	300:17;302:23;	385:12;386:21;	365:18;366:17;	massive (3)
leave (2)	306:14;324:10;	387:7,19;388:14;	367:12,23;368:12;	299:13;301:15;
333:7;394:11	331:18;337:9;375:8;	391:17,18	383:3,13;384:12;	303:2
left (2)	382:8;388:12;	looking (13)	385:12;386:8,10,11;	masters (2)
273:23;288:19	391:12;392:16	286:18;287:5;	387:5;394:3	363:22;375:9
less (8)	live (3)	293:1,3;313:6;345:2;	MAI (4)	material (2)
275:14;309:22,23;	293:13;372:7;	353:5;356:22;	339:12,15;363:21;	290:9;297:6
315:11;354:1;	374:12	357:15;360:22;	376:1	materials (3)
358:16;378:14;	lived (1)	378:16;385:14;	maintained (1)	291:16,18;333:18
392:24	356:16	389:11	302:20	math (16)
letting (1)	lives (1)	looks (12)	maintains (1)	278:1;282:13,14,
332:13	293:18	286:11;295:24;	302:23	23;283:19;285:20;
level (4)	living (1)	302:22;304:11,13,20;	major (2)	286:20,21;338:4,11,
293:16;298:15;	297:11	305:7,13,18;313:10;	363:16;389:24	12;345:16,18;363:14,
353:11;390:17	loading (1)	382:21,22	majority (6)	24;364:1
license (2)	297:14	loop (1)	327:24;333:2,14;	matter (6)
375:14;376:24	local (2)	287:23	336:13,15;393:15	313:16;316:20;
licensed (2)	336:19,24	lose (3)	makes (5)	345:5;349:18;360:2;
375:24;385:3	located (5)	349:20,20;386:5	300:17;329:20;	367:7
light (1)	321:21;322:16;	loss (4)	330:3;332:2;382:23	max (2)
298:1	369:21;394:25;395:6	385:22,23;386:8,9	makeup (3)	275:22;338:16
lighting (3)	location (3)	lost (1)	341:12;368:19;	maximum (6)
297:17,18,23	365:15;374:24;	304:8	369:9	276:13;282:21;
lights (5)	395:10	lot (26)	making (6)	283:16;321:13;
284:13;297:19,21,	long (7)	275:21,21;280:24;	274:8;275:20,21;	329:21;330:12
25;325:8	277:13;289:8;	282:16;285:6,13;	291:16;315:24;326:6	May (16)
limit (10)			man (1)	273:4,7;286:7;
	302:3;303:19;	207.2,3,292.10;	man (1)	273:4,7,200:7;
276:2,4,7;283:1,6,	302:3;303:19; 326:23;339:17;	287:2,3;292:18; 300:25;302:11;	330:21	287:20;298:3;
2/6:2,4,/;283:1,6,				

Wide Son County Bourd	or rajustinents			171ay 0, 2013
210 11 217 12	4'- (9)	296 25 25 222 0	201 12 202 17 20	272 24 277 0 12
310:11;317:13;	meeting (8)	286:25,25;333:9	391:13;392:17,20	273:24;277:9,12;
319:15;329:6;	273:12;274:1,9,11,	mistaken (1)	mortgage (1)	279:20,21;301:11;
338:25;350:10;	15;319:22;320:13;	319:20	349:23	302:1;307:13;313:2;
360:21;361:9;	395:9	mix (7)	Most (8)	316:23;323:13;
384:20;395:15,17	member (3)	277:8,12;281:11,	281:24;329:23,24;	345:19;358:10;
maybe (8)	308:4;372:3;380:1	11;291:17;367:11;	330:4;339:20;362:4;	362:17;363:6
287:21;294:24;	members (8)	383:14	366:9;391:20	needed (3)
295:1;310:9,11;	273:16,17,19;	mixed (3)	mostly (3)	277:9;281:25;
333:9;363:5;395:8	288:9;319:14;	340:23;355:4;	309:16;369:11;	282:7
Maymead (4)	323:12;329:1;338:4	369:13	376:25	negative (32)
370:13;371:17,17,	memory (2)	mixer (2)	motors (1)	341:18,19;342:16,
20	332:18,19	281:11;324:23	325:7	20;343:13;344:1,22;
McCurry (1)	mention (1)	MLS (13)	Mountain (6)	346:5;350:6,8,17;
302:16	320:16	348:25;356:3,4;	364:17;365:1;	352:10,17;353:2,24;
McCurry's (2)	mentioned (1)	357:10,18;365:22,24;	368:22;379:2;	354:16;359:24;
299:4,8	275:17	366:15;371:4,6;	388:11;392:10	360:23;361:7,10;
mean (48)	met (1)	376:3;383:8;386:7	mountaintop (1)	364:5,13;367:5,9;
277:13;282:16;	314:23	mobile (6)	388:13	368:8,17,20,23,25;
283:14;284:19;	metals (1)	288:20,21;289:2,5,	move (7)	369:4;375:21;381:16
288:23;291:4,13,18,	389:22	10,17	316:24;319:3;	neighbor (1)
24;301:22;304:14;	method (1)	modeling (1)	367:24,25;368:1;	374:23
	` /			
312:10;315:3,16;	383:24	377:2	392:11,13	neighborhood (2)
328:15;334:25;	methods (2)	Module (1)	moved (1)	292:11;324:8
340:19,25;341:3;	379:23,24	376:12	308:17	neighbors (2)
342:3,11;348:24;	metrics (3)	moisture (1)	moves (2)	293:7;296:21
349:19;351:14;	383:9;384:17,22	300:24	392:15,16	net (3)
352:1;354:10,13;	middle (3)	Monday (5)	moving (3)	282:7;335:10;
355:10;356:24;	276:19;309:3;	279:20;309:15,16,	289:1;332:14;	336:17
	353:16			
357:2;358:17;		18;324:20	354:8	new (3)
361:19;364:10;	might (7)	money (7)	MSD (1)	319:19,19;328:8
365:8;387:2,3,3,11,	281:24;296:22;	335:24;345:6,7;	336:10	next (15)
12;389:3;391:15;	317:23;318:2;	349:20,21;393:25;	much (19)	294:9;319:22;
392:1,12,13,16,22;	323:13;332:1;365:1	394:2	273:14;279:16,24;	320:13;321:23;
393:8,11	Mike (1)	month (5)	280:4;282:17;283:5,	324:1;325:16;327:4;
means (5)	273:18	274:24;378:3;	6;309:4,11;322:25;	328:9;331:1;370:13;
300:23;376:19;	mile (49)	387:20,21;388:6	330:3;353:25;	371:17;390:20,25;
380:24;387:15;	340:21,21;341:2,2,	month-by-month (1)	355:19;384:8;390:7,	391:1;395:9
391:19	4,4;342:4,4;343:9,10,	352:5	13;392:13;393:9;	night (5)
meant (1)	24,25;344:15,15,25;	monthly (5)	394:4	279:21;282:1,6;
334:13	345:13;347:20,20,21;	387:19,23;388:5,6,	mud (1)	297:20;334:5
measures (3)	352:14;354:4,5;	7	300:25	nights (3)
296:5;297:1;308:5	358:21;360:9,9,11,	months (9)	Multiple (2)	297:20,21;324:21
mechanisms (1)	11,15;361:18;362:9,	285:17,18,21;	356:7;376:11	nightwork (1)
375:18	9;370:2,3;376:14;	337:4,5;351:24;	myself (5)	297:20
median (34)	378:13,20,24;385:7,	352:6;359:17;383:12	273:14;274:21;	nine (2)
340:19;341:1,3;	17;386:2,4,4,22;	month's (1)	279:22;280:4;338:22	315:8;394:19
342:6;343:2,9,11,21,	387:3,4,8,12;388:18;	285:15		nobody (2)
23,24;345:12,22;	393:3	more (45)	N	278:24;293:8
347:25;348:24;	milling (1)	275:14,22;279:22;		noise (4)
354:13,13;356:24;	309:8	283:9,12;310:5;	name (3)	297:3;326:21,22;
358:17;364:10;	million (4)	311:5;315:17;	334:19;339:5;	389:5
365:8;376:20;	333:5;385:13,18,	316:12;326:13;	374:11	none (5)
383:25;387:13,13,15,	24	327:15;332:2,15;		296:2;297:2;
			narrowest (1)	
15,20;388:7,17,18;	mind (2)	336:24;337:2;	315:6	336:17;369:10;
392:6,11,15,16	332:25;346:16	346:15;347:9;	natural (2)	380:11
medians (6)	minus (1)	348:13,17;349:15;	375:13,17	non-normal (1)
387:23;388:6;	337:13	351:21;353:11;	nature (2)	392:7
391:16,17,19,22	minute (3)	354:25;355:18;	316:1;376:18	nonparametric (2)
medium (1)	314:16;316:23;	357:10,18;362:5,16,	near (2)	376:18;381:20
343:1	381:2	19;365:2,7,19;	392:24;393:16	non-profit (2)
meet (3)	minutes (2)	366:14,15,24;370:2;	nearly (2)	334:25;335:1
	* *		•	*
310:23;313:13;	346:10;395:12	372:2,6,8;383:2;	366:20,21	Nor (1)
315:18	mistake (3)	384:19;387:13;	need (15)	286:22
	<u> </u>	I	I	I

normal (1)	o'clock (1)	343:3,12,22;345:20,	279:15	323:5
312:15	394:19	25;346:4;354:17;	order (2)	owing (1)
normally (6)	October (1)	359:1;361:3,9;	274:7;314:20	312:1
375:20;391:20,22;	380:8	364:12;377:13	ordinance (9)	own (3)
392:1,5,6	odor (5)	one-month (1)	312:14,22;313:14,	295:6;309:25;
North (19)	296:22;297:1,4,5,	354:10	22;314:19,23;316:22,	321:10
277:18;283:3;	12	ones (2)	25;317:17	owners (3)
287:23;295:10,17;	off (9)	311:11;386:2	organizes (1)	385:7,7;394:3
297:3;301:24;	273:23;297:7;	one-year (7)	382:19	363.7,7,394.3
302:13;339:8,11,20;	301:5;324:25;326:7;	347:19;348:25;	others (1)	P
				Г
340:13;354:15;	345:8;362:2;369:19;	351:4,19,25;353:20,	361:24	
368:10,10;374:13,18;	381:3	22	out (70)	page (5)
375:14;377:10	offer (9)	only (32)	273:17;274:8;	317:20;322:22;
northern (1)	310:25;311:14,24;	279:1;281:20,24;	278:13;282:24;	379:8;385:14,16
367:25	315:14;322:1;323:2;	285:14;286:6,19;	283:22,23;284:1,18;	pages (1)
notes (1)	373:10,25;380:8	297:16;304:24;	285:21;287:24;	321:13
333:8	offered (5)	307:1;310:7;315:13;	288:18,18;290:10,11,	pairwise (2)
notice (1)	308:13;311:2;	326:24;329:4;	14,15,19,23;291:1,2,	384:7,23
313:7	322:3;323:4;374:2	330:16,18;343:8;	5,8,12,15,24,25;	pan (2)
Notwithstanding (1)	office (5)	347:22;349:7;351:4;	294:4,5;298:6,15;	290:25;291:6
297:10	322:20;325:11,23;	352:6;353:4,20;	304:18;306:10;	Park (2)
Number (19)	334:14;370:18	352.0,335.4,20,	310:18;311:23;	364:9;368:22
281:4;292:16;	off-the-record (1)	359:17;361:3;	310:18;311:23;	
				parking (4)
294:21;309:13;	317:21	364:15;366:11,14;	317:9;320:3;323:8,	284:23;285:6;
310:10,14;311:1;	often (5)	369:2;370:10;389:1	20;324:4;328:25;	336:4,20
321:3;322:2,4,5,10;	358:25;366:10,11,	open (19)	330:2;331:10;332:9;	part (8)
323:3;363:20;	13;392:4	275:7;276:17,21,	335:20;338:16;	287:16;289:13;
366:15;373:1;374:1;	old (1)	22,24;278:1,2,5,6,15,	353:10;354:20;	292:17;302:17;
377:5;391:11	327:3	22,24;279:10,18,20;	358:23,23;360:17;	311:24;313:13;
numbers (26)	older (1)	286:6;337:10,22,23	361:22;362:18,25;	376:22;381:1
284:17;287:8;	324:8	operate (6)	364:4;367:15;	particular (1)
319:21;320:2,8,10,	once (6)	276:12;280:23;	372:15;378:9,14,21;	358:6
11,21;346:7;348:14,	277:10;287:12;	292:6;310:3,5;	380:9,18;384:7;	parties (4)
16;349:5,17;350:5;	296:3,12;300:2;	329:17	388:3,11,12;391:9;	317:25;318:14,15;
351:10;352:4,6;	353:19	operating (3)	393:2;394:10	317.23,316.14,13,
		279:13;286:19;		
356:4;357:18;358:5,	one (74)		outlet (1)	pass (1)
7,10;361:15;362:2,3,	277:14;288:4;	340:13	302:15	288:2
22	292:5;299:15,16;	operation (13)	output (1)	passed (8)
	300:15;301:9;	275:7;282:10;	329:14	281:5;289:15;
0	306:13;320:17;	285:15;314:4;	outside (4)	294:22;310:15;
	322:4,8,8;326:5;	324:19,19;329:21,24,	288:1;298:24;	321:4;322:11;373:2;
oath (1)	330:20;332:15;	24;330:4,5,9;377:15	301:2;323:21	377:6
274:18	337:2;340:17,21;	operations (1)	outskirts (1)	past (3)
object (7)	341:2,4;342:4,12,23;	330:14	321:24	284:12;357:9;
295:19;296:9;	343:8,10,25;344:15,	opinion (4)	over (24)	377:12
307:15;311:18;	25;345:14;347:14,19,	317:14;347:1;	280:7;283:1;	Pat (3)
312:10;363:10;	20;349:8,13,25;	376:6;379:21	284:24;294:1;	299:3;302:16;
370:20	350:8,12;351:10;	opportunity (4)	301:10;304:21,23;	310:22
objected (1)	352:8,14;353:4,4,5;	313:14;316:13;	313:4;314:5;322:20;	Patch (1)
319:1	354:4,24;357:25;	318:1,15	324:18;330:2;	309:9
Objection (9)	359:17;360:3;362:9;	opposed (20)	334:19;346:2;	patching (1)
		342:14,15,18,24;		309:9
280:15;296:18;	364:9,16,21,23;		352:19;359:19;	
305:24;308:16;	365:5,12;368:2;	343:3,10,12,24;	377:22;378:3;	patently (1)
317:10,24;318:3;	370:19;371:16;	344:24;345:25;	379:20;380:4;	312:11
328:13;394:7	372:18;373:12;	346:4;354:3,4,17;	381:25;387:19;	Pat's (2)
obligation (1)	376:14;378:13,24;	359:1;360:11,14;	388:15;392:20	302:3;303:19
314:17	381:7;383:1,2;385:7,	365:19;367:16;368:6	overall (1)	pattern (15)
obsolete (1)	17;387:12;389:1,2,3,	opposite (2)	368:16	350:20;352:24;
370:14	6;392:3	342:22,22	overdone (1)	353:4,8;359:10;
occupation (1)	one- (2)	opposition (4)	302:25	360:1,1,4,8,25;361:6,
339:6	354:10;360:14	274:22;294:19,21;	overlooked (1)	12;367:20;368:17;
occurred (1)	one-mile (16)	377:5	313:1	369:1
294:7	342:14,16,18,25;	option (1)	overview (1)	pave (4)
	,,,,	<u> </u>	(=)	I (-)

Madison County Board	of Adjustments	
202 14 15 204 21	17 20 200 22 202 17	
283:14,15;284:21,	17,20;280:22;282:17,	
24	20;283:5;285:24;	
paved (1)	286:5,7,10,18;	
288:14	289:15;296:1,11,12,	
pavers (2)	12;302:1,7,9,17;	
340:12;373:9	303:9;306:24;310:2,	
paving (6)	7;311:16;314:13;	
284:8,25;285:3,5;	315:1;316:7;317:12;	
308:22;309:4	321:6;322:14;	
pay (4)	328:11;329:20;	
334:10;335:1,7;	330:6;338:5,8,14,21	
393:9	permits (2)	
paying (2)	326:16;371:8	
333:3;334:2	permitted (1)	
pays (1)	326:24	
334:7	person (1)	
	306:5	
penny (1)		
336:2	personal (2)	
people (17)	309:25;385:22	
279:2,5;280:4;	Personnel (2)	
288:23;292:16,18;	363:19,20	
293:9;296:22;	perspective (2)	
297:16;312:3,15;	371:5,6	
313:8;326:6;355:11;	PhD (3)	
367:25;385:24;	375:10;376:23,25	
393:15	phone (1)	
people's (2)	377:17	
295:16;306:16	pH's (1)	
per (19)	389:21	
275:8,24,25;276:2,	pick (2)	
12;277:1;321:12;	313:9;362:11	
322:23,24,25,25;	picking (1)	
331:6;335:11;338:6,	388:15	
9;378:15;386:8,9;	picture (2)	
387:19	305:12;306:21	
percent (22)	pictures (15)	
333:6;344:7,7;	292:8;294:16,25;	
353:18;378:23,25;	295:4,18,19,21;	
379:2,3,4,12,14;	298:13;304:1,17;	
380:17;383:11;	305:8,14;306:1,15;	
205.1.11.22.206.17		
385:1,11,22;386:17,	308:12	
18,19;388:21,22;	Pisgah (1)]
393:23	373:21	
percentage (5)	place (2)	
336:7;341:6;344:4;	296:6;325:1	
354:1;393:12	places (2)	
perfect (1)	359:2;392:21	
307:19	plan (27)	
period (9)	287:17,18,18;	
278:11;292:9;	289:13;296:4;	
346:3;348:17;349:1;	310:17,23;311:3,21,	
351:5;356:24;		
	25;312:8,19;313:5,9,	
379:21;380:4	13,15,17;314:14,18;	
permanently (1)	315:21,22;316:9;	
341:12	317:2;319:2,6,9;	
permeable (3)	324:18	
300:19,21,23	planned (1)	
permission (8)	324:19	
295:11,17;302:3;	plans (5)	1
303:20,21;306:22;	284:11,13;287:11;	,
310:19,22	298:22;310:24	
permit (42)	plant (169)	
276:3,6,25;277:15,	274:23;275:18,25;	١,
210.3,0,23,211.13,	217.23,213.10,23,	l I
		_

```
276:8;277:20;
  282:25;283:21;
  287:21;288:1;293:2;
  301:16;321:11,19;
  322:14,22;323:5,23,
  24;324:5,6,11,15;
  326:9,16,17,24;
  327:15,17;330:13;
  333:22;340:25;
  341:7,11,16,20;
  342:2,7,9,11,20;
  343:4,6,8,15,21;
  344:1,10,22,23;
  345:11,13,21,22;
  346:6;347:2,6,21,23;
  348:2,3,21;349:13,
  14;350:1,3,4;352:11,
  17;353:9,25;354:3,3,
  9,18,19;355:7,9,15,
  16;357:25;358:6,15,
  20;359:11,25;360:5,
  12,17,23,24;361:8,
  11,17;362:10,11;
  364:14,16,18,19;
  365:1,3,9,11,13,15,
  16;366:7;367:6,10,
  13,15,18;368:6,8,14,
  19,25;369:4,7,8,17,
  17,21,24;370:5,13;
  371:17,18,21;372:3,
  21;374:19,24;
  375:22;376:8,14;
  377:13,16;378:10,14,
  20,21,25;379:13,15,
  15;380:6,10,14;
  381:5,10;384:19,25;
  385:8,8,18;386:23;
  387:9;389:11,12,16;
  391:10;392:25;
  393:11,13,16;394:24;
  395:6,10
plants (61)
  276:25;297:2;
  323:1,22;326:18,18,
  19,21,22,23;327:6,7,
  8,14,16,20;328:2;
  340:4,13,14,15,19;
  348:20;349:4;350:4,
  11,13;351:13;352:1,
  22,25;353:6;354:15,
  20;359:9,15;361:2,4;
  364:5,6,7,7,15;
  367:19;368:5;
  369:12;370:4;371:8;
  373:7;376:13;
  377:10,14,19;378:8,
  9;380:3;381:15,15;
  383:2,6,14
plant's (5)
  275:7;279:9;
  325:17;355:11;
  356:17
playground (1)
```

	1
325:25	prej
Please (6)	31
274:10,17;295:13;	prej
332:17;339:6;346:17	31
plotted (1) 378:7	prer 30
plugged (1)	
383:8	prep 27
pm (5)	prep
276:14,23;346:13,	3
14;395:16	pres
point (7)	37
307:22;315:6;	Pres
323:8;338:19; 361:21;387:17,18	35
pointed (4)	pret 28
310:18;311:23;	30
315:23;324:4	prev
pointing (5)	28
297:19;320:3;	pric
323:18;325:9;328:25	35
policy (2)	37
325:4;326:4	38
pollution (3) 325:23,24;375:22	pric 35
pond (11)	3.
301:6,8,12,20;	35
304:21,22;307:5,6;	37
308:1,2,11	6,
ponds (1)	22
304:20	pric
pool (1)	36
302:4	prin
population (1) 393:13	34 prio
port-o-john (3)	34
289:11,12;291:12	36
positive (1)	priv
375:22	33
possibility (1)	prol
296:21	29
possibly (1) 274:12	32 36
post (2)	prol
295:8,15	27
post-construction (1)	34
365:9	prol
posted (1)	34
295:16	pro
post-op (1)	27
377:1 potential (4)	31
282:7;283:19;	proc
311:22;376:8	27
pouring (1)	3
299:6	pro
pre- (1)	30
365:8	3.
preceding (3)	proc
342:10,21;347:15 prejudice (6)	31

307:20;314:9,10;

316:4,15;317:11

prejudiced (1)
314:3
prejudicial (2) 313:19;314:6
premature (1)
307:21
prepared (2) 276:7;317:3
preparing (1)
315:12
presence (2) 378:10;393:11
President (1)
351:16
pretty (4) 282:17;299:22;
309:4;381:7
previously (1)
281:4 price (6)
355:12;376:13;
378:13,15;380:24;
383:11
prices (18) 354:8;355:10;
357:1;358:16;
359:10,19;360:8,20;
372:15;376:4;388:5, 6,7,7,17,18;391:15,
22
pricing (1)
362:6 primary (1)
347:13
prior (4)
348:1;349:1;350:2; 367:12
367:12 private (2)
336:3;339:22
probably (7)
298:12;301:18; 327:2;337:12;
362:16;391:14;393:4
problem (5)
279:8;289:20;
345:17;363:7;393:18 problems (1)
349:23
proceed (6)
274:16;317:25; 319:12,15;361:13;
371:12
proceeding (4)
273:14;274:4;
319:9;395:15 process (4)
302:17;312:1;
313:3,4
processes (1) 313:7
produce (13)
277:1:279:24:

282:4,5;283:5,8,9,12;

310:8,10;327:15;	393:25;394:1,3	quarry (29)	345:5	366:1
330:7,8	proposed (12)	277:24;278:13;	rate (5)	recycling (1)
produces (1)	292:12;317:15;	283:21;284:2;	344:3,9,12;345:8;	281:12
327:15	323:24;325:17;	287:15;288:12;	386:7	red (2)
producing (2)	370:9;374:23;375:5;	293:1,2,4,19;294:10;	rating (1)	284:13;298:1
282:25;338:9	380:5;384:19;	321:24,25;325:14,18;	275:25	reduce (3)
production (4)	385:18;386:3;389:12	364:21,22,22;365:3;	ratio (1)	297:1,4;385:10
276:4,8;282:21;	provided (1)	369:21;388:24;	356:20	reduction (3)
321:17	290:22	389:10,14,16;390:11,	rationale (1)	384:24;385:2,4
productive (1)	provisional (1)	20,25;391:1,2	352:9	Reed (13)
274:12	375:25	Quasi-judicial (3)	reach (1)	274:16,17,21;
professional (1)	proximity (13)	273:2,13,25	380:18	282:9;288:10;298:5;
382:6	340:15,24;341:10;	quick (5)	read (2)	308:21;318:8;338:3;
program (2)	343:6,14;348:21;	277:8,10,12;278:4;	318:5;328:22	393:19;395:5,5,7
382:1;383:21	354:18;367:6,15,19;	344:3	ready (1)	Reed's (2)
programming (8)	368:7,15;369:8	quicker (1)	346:10	390:8,18
378:4;382:5,16;	Public (6)	392:14	real (12)	reference (1)
383:24;387:25;	273:2;370:17,22,	quit (2)	277:8;278:4;	349:16
388:1,4,5	23;371:7;381:10	309:1;332:9	350:17;375:13,24;	referenced (1)
		*		
prohibit (1)	pull (2)	quite (3)	376:24;384:2,3,13;	311:11
326:5	277:5;287:23	366:3,11;390:19	385:3;389:13;392:4	referring (1)
promise (1)	pulled (4)	_	realize (3)	359:4
279:9	376:16;378:3,4;	R	292:15,18;355:18	reflect (3)
propane (1)	384:10		really (22)	295:24;357:2,7
322:6	pulling (2)	radius (59)	280:24;285:12,14;	reflection (2)
proper (1)	376:10;378:1	340:21;341:2,5;	287:14;298:2;301:1;	357:11;366:16
313:16	pump (2)	342:4,12,13,14,15,16,	303:1,8;304:10;	reflective (2)
properties (36)	290:17;291:12	18,19,24,25;343:2,3,	320:21;332:20,20;	357:17;366:10
340:23,23;343:22;		11,12,20,22;344:15,	338:12,18;349:20;	reflects (2)
	pumps (1)			
346:20,20,23,24;	290:23	24,25;345:13,15,21,	355:18;358:10;	356:13;383:7
349:5;352:21,22,23;	purchases (1)	25;346:1,3,4;347:21;	359:18;361:23,25;	refunded (1)
353:1,7;355:2,5,6;	335:21	352:12,15;353:9,10;	381:8,23	335:24
356:10,12,22,25;	purchasing (1)	354:2,5,14,17,18;	reapply (1)	refunding (1)
358:23;359:16;	333:20	356:25;358:25;	313:16	336:1
365:24;366:25;	purpose (3)	359:1;360:11,14,15;	reason (9)	regarding (2)
367:6,14,14,18;	350:17,24;351:6	361:1,3,9,19;362:9;	293:8;326:15;	319:5;325:2
369:2;370:5,8;376:4;	purposes (1)	364:11,12;366:5;	347:22;349:24,24;	Regardless (1)
386:4,22;387:3,4	306:17	370:3;377:10,13;	350:25;351:3,8;	306:23
property (99)	put (18)	386:2,4,4	352:8	region (1)
288:12;293:21,24;	280:4;282:17;	radiuses (2)	reassessed (2)	383:7
294:14;295:6,17;	283:21;291:11,12;	348:1;369:23	357:8;385:10	regional (3)
298:24;299:3,7;	297:2;300:12;	rain (1)	reassessments (2)	322:20;356:3,4
306:16;312:21;	301:16;309:10,11;	301:11	357:14,14	regular (4)
340:5,20;347:3,5,22;	325:1;355:3;363:5;	rainfall (1)	recall (2)	273:11;299:16;
348:5,13,20;349:8;	382:2,18;383:22;	301:13	275:4;391:14	302:21;351:14
351:12;352:2;	390:22;392:11	raining (1)	recent (2)	regularly (1)
353:12;355:13,17,20;	putting (2)	301:1	362:5;365:7	339:23
356:2,9,13,19,19,20;	314:25;330:12	rains (1)	recently (1)	reimbursed (2)
357:4,5,7,22,24;	011120,000112	300:15	380:20	334:21;335:19
364:24;365:17;	Q	raised (1)	recessed (1)	reject (1)
366:4,6;368:7,21;	Q	314:1	346:13	384:4
	- 1.6. 4 (1)			
369:5,6,15,25;	qualifications (1)	Ramsey (10)	recognize (1)	related (8)
371:18,20,22,23,23,	339:9	273:18;304:14;	295:21	281:10,13;326:16,
24;372:9;374:22;	quality (13)	305:11;306:9,12;	recollection (1)	22;376:15;379:14;
375:1,2,5;376:7,9;	276:2;280:24;	307:12;394:24;	309:3	380:3;381:15
377:9;378:22,24;	282:16,20;283:3,4;	395:2,5,8	reconvened (1)	relates (3)
379:1,2,3,4;380:5,7,	321:6,10;322:14;	ran (2)	346:14	287:11;380:13;
7,11,13,15,16;	326:15;329:16,20;	362:21;378:5	record (6)	384:13
381:17,17;383:6;	338:21	random (2)	317:19;318:21;	relative (1)
384:14,24;385:2,4,6,	quantitative (1)	350:14,15	370:18,22,23;371:7	345:1
7,9;389:9,15,24,25;				
1 .フ.ンロン・フ.エフ.ムケ.ムノ、	377.1	RAP (2)	recorded (I)	raidvantiii
	377:1	RAP (2)	recorded (1)	relevant (1)
390:5,7,10,11,19;	quarries (3)	275:10;281:12	348:25	348:17

	<u>, </u>			T
376:19	restroom (1)	387:14	runs (3)	368:1,4,4,5;386:16;
rely (1)	289:9	rink (1)	297:9;299:3;301:3	391:2
339:23	result (1)	300:13	run-up (2)	scenario (4)
remember (5)	390:24	rise (1)	361:22;362:1	330:11,24;331:9;
274:17;280:23,25;	resulting (1)	342:21	rural (7)	332:5
320:2;333:1	346:6	river (8)	366:14,18,20,21,	schedule (3)
remind (1)	results (2)	293:1,8,9,17;	22,23,25	307:17,18;331:4
273:25	342:23;391:3	304:22;321:23;	rut (1)	school (2)
remove (1)	resume (1)	325:9;375:23	300:17	284:10,12
274:10	318:14	road (12)	200.17	screen (1)
report (13)	retention (4)	277:6,7,24;278:14;	S	308:9
275:16,17;287:19;	304:20,21;308:1,2	283:25;284:10;	Б	Screening (1)
328:8,10;330:22;	retired (1)	287:14;321:7;	safe (1)	300:8
376:15;377:19;	367:24	364:17;374:13,18;	292:1	screenings (10)
378:16;379:8;	returns (1)	395:4		299:19;300:3,5,7,
	324:9		safety (2)	
381:12;384:18;		Robert (1)	284:11,13	10;304:3,4,5;308:10,
391:18	revenue (1)	273:19	sale (4)	11
Reporter (5)	386:9	rock (4)	357:5;376:4;	second (2)
294:18,20;323:14,	review (9)	283:21;291:20;	380:20,21	301:12;318:9
15;329:3	281:6;294:23;	305:11;365:2	sales (15)	secretary (1)
reports (1)	310:16;312:3;	Rogers (11)	332:22;333:4,19;	273:20
370:23	316:13;321:5;	322:14;323:5;	334:2,8,11;335:1,3,8,	security (3)
represent (3)	322:12;373:3;377:7	324:10;326:16,24;	10,21;348:25;	297:17,18,18
274:22;305:16;	revised (2)	327:5;341:20;	357:20;359:8;366:15	sedimentation (1)
306:4	310:18;319:2	361:17;369:17,21;	SAM (1)	308:5
represented (1)	revision (1)	379:15	376:12	selected (1)
281:2	310:17	rolling (1)	same (13)	387:20
require (1)	Revolution (1)	321:16	283:9;293:11;	selection (3)
274:5	390:1	room (1)	336:19;341:11;	377:25;379:25;
required (3)	Rhinehart (1)	273:5	348:16;350:20;	388:15
302:16;303:10;	273:18	rotary (1)	351:8;367:11;369:1,	sell (9)
324:21	rid (1)	281:11	9;379:18;384:3;	279:2,22,22;280:2,
requirements (3)	291:13	roughly (1)	393:5	3,3;356:20;393:22,24
313:8;314:22;	ridge (1)	333:3	sample (4)	send (1)
317:16	321:22	rounded (3)	376:21;381:21;	393:14
requires (4)	right (78)	319:22;320:4,12	387:17,18	
				sense (5)
301:19,21;302:12,	275:13;277:18,19;	ruined (1)	sampling (4)	316:4;325:6;
13	278:12,16;280:9;	371:18	296:2;350:14,15;	331:19,20;332:2
research (3)	281:14;282:19;	rule (3)	351:19	sensitive (1)
354:13;376:3,4	283:7,11,16;284:2,	328:20;371:1,2	Sanitation (2)	392:17
reserve (1)	10;286:13;287:21;	rules (1)	289:13,16	sent (1)
317:24	288:3,3,20,21;	325:1	SAS (1)	335:18
residential (21)	291:18;292:3;	ruling (3)	382:17	separate (3)
284:23;323:17,17;	295:23;297:13;	317:24;318:13;	satisfied (1)	287:19;290:16;
340:20,23;341:15;	300:11,16;302:8;	319:4	314:25	321:10
343:5,14,21;344:2;	306:8;307:3;309:12,	run (23)	Saturday (3)	separately (1)
346:5;347:5;355:2,6;	13;315:8;320:14;	276:13,14,17,22,	279:20;282:6;	299:5
360:13;361:16;	321:8,14,22,23;	23,24;278:2,5,14,21,	309:15	separates (1)
367:5;368:15;	322:17;324:1;	24;279:17;280:14;	Saturdays (3)	334:15
369:13,16;370:1	325:12;326:10;	301:5;330:16;	281:25;282:1;	series (1)
residentials (1)	327:2,3,4,6,7;328:10,	331:11,22,23;332:6,	309:19	294:16
324:3	25;329:19;331:17;	8;338:10;362:22;	saw (6)	Service (2)
resource (1)	332:1;337:15;346:9;	389:23	292:8;294:9;	356:7,8
375:13	349:6;353:16;358:5,	running (16)	299:25;361:4;	session (1)
resources (1)	16,21;365:4;369:11,	276:21;277:13,14;	364:15;369:2	273:24
375:17	19;375:7;380:8,23;	278:1,6;284:18;	saying (25)	set (2)
Respect (2)	382:14,16;383:8;	286:3;289:21;	277:19;279:8;	277:7;395:14
274:4,10	385:14;388:9;390:5,	297:20,21;300:1;	282:20;283:8,8;	setback (6)
respond (1)	8,9,17;391:25;392:4,	324:23;325:7;326:7;	285:24;286:5,18;	311:7,8;312:15,15,
319:10	18;393:10,11,22	388:24;393:17	326:17;327:14;	22;315:18
rest (6)	right-of-way (1)	runoff (5)	329:17;330:10,16;	setting (1)
285:1,3;286:2;	288:1	294:7;301:9;304:3,	338:13,14;344:16;	315:25
294:10;331:15,24	rigorous (1)	7;308:15	348:6,15;367:21;	seven (32)

	<u> </u>	I		
285:17;298:13;	292:16;343:23,25;	slow (2)	323:20;337:12;393:3	344:20
299:21;311:4,8;	344:17;345:19,20;	382:7,20		
			sorry (13)	stand (2)
324:11;340:14;	364:17;378:9,11,12;	slowed (1)	280:9;282:8,11;	324:9;332:21
348:20;349:4,4;	382:24	344:20	318:11;322:18;	standing (1)
350:4,11,13;352:20,	significantly (4)	small (1)	341:25;348:11;	338:13
22,23,25;353:1,5,6;	277:23;345:24;	315:24	355:21;362:13;	start (11)
				277:9;283:15;
354:14,20;358:23,24;	378:7,14	smallest (1)	363:6;370:25;379:9;	
359:15,15;361:2,4;	signs (1)	364:10	386:16	308:24;313:2,3;
364:5,15;369:2,3	295:9	smell (1)	sort (2)	314:5;321:23;
seventh (1)	silo (1)	297:15	339:9;341:11	336:23;337:19;
357:16	319:25	smoke (1)	Sounds (3)	355:25;382:15
several (4)	silos (6)	297:7	286:5;334:24;	started (6)
321:13;357:8;	277:7,8;281:12;	smokestack (6)	335:3	279:23;297:22;
360:7,10	287:5;321:15;324:24	293:12,16;389:25;	sources (2)	308:25;309:2;342:4;
shall (2)	similar (3)	390:4,9,14	281:10;310:3	382:16
274:1,3	349:15;384:19,21	smokestacks (1)	span (6)	starts (5)
shingles (1)	similarly (2)	390:2	351:13,25;352:3,	301:1;316:10;
323:1	366:25;383:3	Smokey (2)	19;354:10,11	323:19;325:16;390:6
shining (1)	simply (1)	364:9;368:22	Speak (5)	state (22)
325:9	314:24	smooth (1)	295:13,13;323:13,	283:2;287:14;
short (2)	simulation (1)	298:15	16;332:14	295:10;301:19,24;
315:8;332:20	377:2	snapshot (3)	SPEAKER (1)	302:13;303:3;
shortly (2)	sit (3)	359:20,20,23	394:6	318:23;330:3,10,20;
380:9;381:4	292:7;325:4;354:6	SNEED (67)	speaking (1)	334:6,7;335:4,8,12;
short-term (1)	site (67)	279:6;280:15;	317:18	336:1,6,7,8;374:11,
332:19	277:25;278:14;	281:16;295:13,19;	specializing (1)	17
show (21)	284:2;287:12,13,17,	296:9,16,18;300:4,6,	375:11	stated (4)
280:20;288:6,10,	18,18;288:12;292:9,	8;305:14;306:5,15,	specific (6)	298:5,6;317:10;
15;294:16;298:20;	17;294:7;295:3,4,8,	19,21;307:3,6;	281:10,13;314:22;	371:3
310:13;316:25;	21,22,24,25;296:1;	308:20;310:25;	350:1;364:14;370:2	statement (1)
318:8;321:1;322:9,	298:7;304:8;305:17;	311:16;312:13;	specifically (2)	355:24
22;340:9;341:13;	307:3,4,14;310:17,	313:21;317:12;	314:15;369:1	statements (1)
348:15;350:20;	19,23;311:3,21,25;	318:7,11;319:10,15;	specifics (2)	357:6
351:4;354:16;361:5;	312:7;313:5,9,13,15,	320:5,10;321:1;	303:2;369:24	states (2)
365:13;367:10	17;314:14,18;316:8;	322:1;323:2;326:2;	speech (1)	328:16;335:20
showed (9)	317:2;319:2,6,9;	328:13,16;329:6,9,	273:8	state's (1)
315:22,24;341:14;	325:17;327:21;	11,16,19;330:21;	speed (1)	335:6
364:7,8,10;368:16;	340:15,22,24;341:1,	331:8,13,17;338:25;	284:13	station (1)
384:22;388:5	7,8,8,9,10,12;365:4;	339:4;346:8,15,18;	spell (1)	290:25
· · · · · · · · · · · · · · · · · · ·		358:8,13;359:6;		
showing (3)	369:10,21;370:6,9;		388:3	statistical (8)
326:19;330:12;	375:5;383:3,3;	360:6;361:14;	spike (1)	363:15,23;365:5;
384:5	384:20;386:3	362:23;370:20;	364:11	372:13;376:12,16;
shown (1)	sites (7)	372:11;373:4,10,25;	spiking (1)	378:19;381:14
373:5	299:12;377:24,25;	374:6,7,8;386:13;	352:13	statistics (2)
shows (4)	379:25;381:16;	394:12,14	spill (4)	377:1;383:22
350:16;356:9,10,	383:5;388:16	soil (4)	298:22;302:14;	stay (3)
11	sitting (4)	296:2;300:22,23;	304:24;305:1	345:8;380:25;
shut (10)	325:2,7;328:4;	301:5	spilled (1)	385:24
277:11;280:15,17,	351:9	sold (5)	304:23	steady (1)
19;285:8,16,22,24;	situated (2)	356:12,14,23,25;	spirit (1)	297:15
286:8;331:15	366:25;383:3	388:8	317:16	
				steep (1)
Shuts (1)	situation (1)	somebody (1)	spite (1)	393:4
280:12	366:7	395:8	391:2	steps (2)
side (9)	six (2)	someone (3)	spoke (4)	288:8;323:11
292:25;294:9,10;	285:17,21	290:8;356:16;	298:21;301:22,23;	still (6)
298:24;300:16;	six-year (3)	393:9	302:18	274:17;297:10;
304:11;309:7;	351:7;352:3;362:4	someone's (2)	spread (2)	329:18;333:9;
325:15;392:3	size (1)	290:14;295:5	330:2;332:9	334:10;351:9
sides (1)	326:19	sometimes (4)	spreadsheet (2)	stock (1)
392:10	sizes (2)	325:5;328:5;	363:1,2	353:17
sidewalk (1)	376:21;381:21	357:15;389:7	stackhouse (1)	
* *				stop (1)
309:8	skewing (2)	somewhere (5)	292:12	316:9
significant (11)	362:1,2	274:24;322:4;	staggered (1)	storage (1)

	or ragustinents			111ay 0, 2012
281:12	389:21	370:19	314:7:332:20	15,16
stormwater (3)	supplied (1)	tall (1)	third (1)	took (39)
296:5;302:14;	383:12	390:14	313:18	295:19,20;306:1,3,
308:15	supply (1)	tank (13)	though (7)	6,9;340:11,12,14,18,
stream (2)	290:13	275:9;290:16;	278:19;280:25;	19,24,25;341:5;
304:15;308:9	support (3)	297:2,6,7,9;299:11;	304:24;309:19;	342:3;344:13;
streams (2)	316:16;318:3;	305:1;311:12;320:6,	326:23;372:8;380:12	348:22,23;349:2,25;
298:14;300:6	390:21	7;322:8,8	thought (3)	350:12;352:8;
strike (4)	supporting (2)	tanker (1)	292:25;293:5;	358:17;367:13,17,19;
275:16;277:2;	317:8;318:2	297:6	308:8	368:5,9,13;369:7,7,
282:11;313:15	suppose (1)	taper (1)	three (14)	12,22,25;385:10,11,
structures (1)	291:3	345:8	285:15;304:1;	20;387:11,13
311:9	supposed (3)	task (1)	311:20;313:17;	top (6)
stuck (1)	295:16;325:17;	366:4	322:5;323:22;327:6,	284:1;293:12;
334:11	329:17	tax (21)	7;328:4;343:10;	300:23;311:4;
studied (2)	sure (17)	332:22;333:4,19;	348:1;350:9;351:16;	321:22;369:19
368:3;371:23	292:2;298:4;	334:2,8,11;335:2,3,8,	373:23	topographic (1)
studies (3)	299:14;302:18,19;	11,21;357:1,4,6;	throw (1)	293:12
341:20;359:13;	305:2;314:21;	366:1;370:18;385:4,	345:6	total (3)
376:9	320:20;335:13;	10,17;386:9;391:9	thrown (1)	346:21;361:15;
study (25)	372:22;377:14;	taxes (1)	320:23	385:17
278:18;324:10;	383:4;385:6;389:10;	334:15	thumbs (1)	totally (1)
340:4,7,10;344:11;	392:12,22;393:12	technical (5)	331:25	342:22
348:7,19,22,23;	surging (1)	314:11,12;315:16,	times (6)	touched (1)
349:2;350:4;351:4,7;	353:17	19;316:21	276:19;278:5;	295:25
352:2,7,9;353:12;	surreptitious (1)	tells (3)	285:11;338:6;357:9;	toward (2)
358:14;359:5,6,14;	306:17	343:3,25;346:4	389:7	304:22;325:9
367:2;368:16;380:17	surrounding (3)	ten (2)	today (4)	town (2)
stuff (8)	292:11;365:8;	315:11;360:3	348:18;358:11;	312:24;388:12
285:5;291:1,8;	381:17	tendencies (1)	362:20,21	trackers (1)
296:2;305:17;335:1;	surveyed (1)	392:7	today's (2)	383:17
336:12,24	310:22	Ten-minute (1)	349:16;362:6	traditional (1)
stupid (1)	sustained (3)	346:12	together (4)	375:17
349:20	296:18,19;308:17	tennis (1)	312:2;320:23;	traffic (17)
subcontractors (1)	switched (1)	336:12	323:21;369:16	275:3;276:16;
336:11	311:11	tenth (1)	toilet (6)	277:7,23;278:17,22;
subdivision (1)	sworn (2)	344:6	288:20,21;289:2,5,	282:2,3,6;283:19,23;
327:3	339:3;374:15	term (2)	10,17	284:7,8;287:10,11,
subdivisions (2)	system (2)	312:11;345:1	told (8)	12,17
336:12,20	281:12;376:11	terms (3)	278:24;301:25;	transcribed (1)
subject (2)		384:3,5,21	302:2;303:13,18;	273:8
340:15;341:12	T	test (9)	334:20,23;381:3	transfer (1)
submit (2)		299:2,4;301:11;	tomorrow (1)	297:5
311:21;316:12	table (1)	381:20;383:15,20,25;	332:6	Transylvania (1)
submitted (1)	311:9	384:2,23	ton (4)	340:16
312:25	talk (7)	testified (8)	277:2;321:15;	TRC (10)
subsequent (1)	280:24;289:16;	274:24;280:21;	329:14;338:10	275:17;280:22;
346:22	294:1,2;295:13;	308:8;312:5;332:25;	tonight (1)	281:17;287:6,19;
sudden (1)	303:8;306:5	339:3,25;374:15	274:2	296:4;298:21;316:7;
317:4	talked (4)	testify (2)	tonnage (1)	328:8;338:5
sued (1)	289:18;298:23;	304:17;305:7	331:3	treated (1)
389:13	303:18;329:22	testifying (2)	tons (50)	367:21
sufficient (1)	talking (25)	304:2;305:6	275:11,19,19,22,	treatments (2)
302:3	280:23;281:15;	testimony (10)	25;276:5,8,10,12,15;	384:1,1
suggest (2)	284:17;285:14,17;	273:7;276:21;	277:1,3,16,17,22;	trees (1)
317:23;318:13	288:3;304:7;305:3;	296:4;304:1;308:13;	278:5,10,12,13,22;	302:24
suggesting (1)	315:3;318:6,24;	313:19;320:5;	279:18,19,24;280:6,	trench (1)
305:17	320:8;323:23;331:3;	338:20;390:8,18	8,9;282:21,24;	299:25
suggestion (1)	336:22;359:6,12;	therefore (2)	283:10,12,16;288:25;	trend (6)
318:12	369:5;372:2;374:20;	361:6;368:18	309:10,12,13,20;	343:16;344:19,19;
suitable (1)	379:16;382:12;	therewith (1)	310:8;321:12,18;	345:9;352:4,7
316:3	383:18;386:1;387:6	317:14	322:23,23,25;330:6;	trespassing (3)
sulphur (1)	talks (1)	thinking (2)	331:6,6;338:6,8,10,	295:5,9,15
	(-)		22113,5,22010,0,10,	

Widdison County Board	or riajustinents	1	T.	171ay 0, 2015
triangle (2)	353:13,16;354:6,20;	Unlike (1)	23	walk (2)
312:17;315:2	355:9,23;358:9;	345:17	values (97)	291:8;307:10
tried (1) 373:12	359:4,12,17,22; 360:16;361:21;	unsuitable (1) 315:25	340:5,19;341:1,4,6,	warm (5) 283:13,14;308:25;
5/3:12 truck (3)	362:11,14,16,24;	up (52)	15;342:3,6,20;343:2, 5,9,11,14,18,24;	337:16,19
277:2;278:12,12	363:8,12,18,23;	274:7;277:5,8,15;	344:2,9,14,24;345:1;	warmer (1)
truckloads (1)	364:1;372:1,6,12,19;	279:8;283:15;	346:6;347:3,5,14,25;	337:9
309:20	379:8;382:7,12	284:10;288:19;	348:5,12,13,24;	wash (9)
trucks (28)	twiddle (1)	295:13,14;298:15;	349:8,9,11;350:15,	290:6,10,12,13,15,
275:8,10,11,24;	331:24	299:17;302:25;	16,21;351:12;352:2,	19;291:5,24,25
276:15,16;277:3,21;	two (33)	311:11;323:13;	12,13;353:8,9,11,19;	washed (3)
278:2,13,23,25,25;	284:4;305:18;	324:24;325:3,16;	354:2,13,14;356:2,	298:16;299:19;
279:5;282:10,13,15;	309:1;322:5,5;	328:4;330:6,15,19;	24;357:11,19,22;	300:18
283:20;284:11;	324:16;325:6;	336:23;337:20;	358:18,20,24,24;	washes (1)
287:1,2,3;288:25;	326:15;332:15;	338:8,10;344:5,6,6,	360:10,13,13;361:1,	300:17
297:14;325:2,5; 326:6;328:4	337:7,17;342:10,21; 344:7;349:13;	19;345:3,6,14;357:7; 358:5,20;361:15;	3,16,19;364:10; 365:8,17;366:4,9;	washing (3) 290:5;291:14;
520.0,528.4 true (2)	351:15,18;361:4;	362:21;365:10,13;	367:5,9;368:15,17,	300:3
344:17;349:24	364:6,6,7,7,16;369:3;	367:10;370:18,24;	20;375:19;377:9;	water (19)
truly (1)	371:8;373:23;	380:20;383:22;	378:22,24;379:1,2,3,	289:9,21,25,25;
331:21	380:10;382:23;	391:6;392:10,11,13,	4;381:17,17;383:6;	290:3,4,7,13,18,21,
try (4)	389:2,3,4,6;395:12	15,16;393:2	384:1,13,24;386:6;	22;299:1,2,5,18,20;
314:4;316:5;	two-lane (3)	upon (5)	387:8,11,12,16,16;	300:21,23;301:3
326:10;380:25	277:24;278:14;	315:12,14;347:1;	392:22,24;393:25;	way (15)
trying (3)	283:25	365:18;380:2	394:1	282:15;288:17,18;
286:20;331:14;	type (2)	upward (1)	Vandenmeiracker (1)	292:22;299:4,15;
385:24	369:9;393:1	345:9	329:22	307:9;311:5;317:5;
t-test (8)	Typically (2)	urban (1)	variables (1)	331:11,23;351:23;
376:17;378:5; 381:19;382:1,2,18,	285:11;366:13	366:22 use (15)	282:17 variation (5)	355:3;362:3;381:25 Waynesville (13)
19;387:24	U	289:17;303:17;	376:21;381:21;	373:19;379:6,10;
turn (5)		312:12;314:13;	382:23;391:25;	384:21,25;386:19,22;
284:3;288:16;	Uh-uh (1)	317:15;328:2;	392:24	387:6,7,9;388:10;
334:16,20;335:22	327:11	330:15;340:23;	variations (1)	392:10;394:24
turning (1)	ultimately (1)	356:8;365:4;369:13;	392:22	weather (4)
284:4	376:6	379:25;383:21,25;	varies (1)	285:13;309:2,5;
turnkey (1)	unclear (1)	391:15	337:14	337:19
309:6	273:7 under (6)	used (8) 332:18;355:25;	vary (1) 384:5	Weaverville (7) 321:6;373:15;
turns (1) 297:8	274:17;276:25;	365:6;373:7;383:21;	verify (1)	378:21,23;379:4,6,12
Tuziw (118)	289:14;356:10;	391:16,17;392:6	377:21	website (1)
273:18;284:14,16,	380:23;394:4	uses (3)	versus (1)	340:11
25;285:3,10,14,20,	underneath (1)	355:4;369:14,16	344:7	week (12)
24;286:2,5,10,12,15;	289:4	using (10)	view (2)	281:21;282:23;
298:25;299:8,11,17,	understands (1)	277:2;288:21;	293:3;366:25	309:4;330:14;331:5;
23;300:19,21;301:3,	383:19	299:8;328:2;372:18;	violation (4)	337:17;338:7,9,10,
12,17;302:5,9,16;	understood (1)	381:19;384:22;	314:11,12;315:16,	15;380:11;391:9
303:10,13,16,21,23;	360:7	386:7;387:24;391:25	20	weekends (2)
307:5,7;308:1; 317:20;318:5,9,23;	unfair (4) 312:11,13;316:4;	\mathbf{V}	violations (1) 316:21	309:17;324:20 weeks (38)
317.20,318.3,9,23,	317:11	V	visit (2)	280:8,9,10,13,16,
15,18,20,25;324:3;	unfairly (1)	valuation (1)	298:7;307:14	17,19;281:21;
326:3,9;329:15,18;	313:19	391:5	visual (1)	282:22;283:12;
330:10;331:11,14,18;	UNIDENTIFIED (1)	value (36)	363:6	285:21,22,23,25;
332:12,15,18;333:8,	317:18	342:11,17,17;	vocal (1)	286:19,22;309:1;
12,17,19,22,25;	unintelligible (1)	343:21,21,23;345:12,	385:9	310:3,5;328:12;
334:2,10,24;335:6,	273:8	23;352:10;357:4,4,7,	XX 7	329:11;330:1,15,17,
14,20;336:6,13,17;	UNKNOWN (1)	17;364:13;366:10,	W	19;331:5,7,12;332:6,
337:1;344:3,16; 345:1,16;346:7;	394:6 unless (9)	16;368:8;375:17,19; 376:7;379:14;	wait (1)	8;337:5,6,7,8,10,19; 338:9,16
347:8;348:4,9,12;	284:7,18,19,20;	380:13,14,16;385:2,	325:6	Welch's (8)
349:7;350:22,24;	285:13;325:18;	4,10,13,17,19,19,21;	waiting (2)	376:17;378:5;
351:3;352:18;	326:12;394:12,21	386:21;387:3;393:8,	325:5;381:11	381:19;382:1,2,18,
-				

Mudison County Board	J		T.	1/14/ 0,201>
19;387:24	274.0.224.11 12	208.21.200.0 14 17	waanal (1)	359:17
	274:9;324:11,12,	308:21;309:9,14,17,	years' (1)	
welcome (1)	13,16;340:14,20,20,	19;327:24;380:9;	387:22	12.7 (1)
338:1	24;341:1,10;342:3,	381:4;382:5,16;	year-to-date (1)	378:23
weren't (1)	12,13,18,24;343:2,6,	389:24;390:24	361:20	120 (1)
319:21	6,9,11,14,20;344:24;	worked (3)	Yep (1)	282:12
Western (8)	345:12,14,15,20,25;	308:23;309:1;	281:18	124 (8)
277:18;297:3;	346:3,24;347:14,25;	363:19		278:13,23;282:8,9,
339:20;340:13;	348:21;352:12,13,13,	working (6)	${f Z}$	13,15;283:20;287:1
354:15;368:9,10;	14;353:8;354:2,14,	279:19;292:1;	_	12-month (4)
377:10	18;356:23,23,25;	297:25;309:14;	zero (1)	321:16;351:5,13;
what's (12)	358:25;360:14;	316:5;318:10	335:10	352:19
294:12;296:17;	361:1,3,8;362:8;	works (5)	zip (10)	13 (2)
304:14;316:9;	364:11;366:5,6;	298:1;335:16,17;	377:23;378:15;	379:3,12
320:22;331:23;	367:1,6,15,18,19;	351:23,24	386:25;387:8,11;	132 (1)
333:6;350:14;363:8;	368:7,15;369:8,14;	world (1)	388:8,14,17;392:9,21	365:3
383:10;387:18;	370:5;375:21;	332:5	zone (1)	137 (1)
390:25	376:14;377:12,12,13;	worried (3)	310:24	365:3
wherein (1)	378:13,20,24;383:10,	325:21,22,24	zoning (6)	139,000 (1)
379:21	24;385:7,17;386:4,	worst (6)	273:20;313:14;	345:13
Where's (3)	22;387:3,4,5,9,17,20,	277:5,5;330:11,24;	314:19,22;327:9,9	139,750 (2)
294:14;394:24;	21;388:6,18	331:9;332:5	, , , ,	343:23;345:24
395:6	without (6)	worth (4)	0	14 (37)
WHEREUPON (18)	295:11,17;306:22;	285:15;355:14;	0	280:8,9,16,17,19;
273:5;281:4;288:8;	351:15;354:9;367:23	387:22;393:23	05 (4)	281:21;282:22;
	witness (133)		349:12;351:8;	
294:21;310:14;		written (3)		283:12;285:21,23,24;
311:1;317:21;321:3;	281:6;284:15,21;	295:11,17;333:8	352:3;359:4	286:19,22;310:3,5;
322:2,10;323:3,11;	285:2,5,11,16,22;	wrong (3)		324:16;328:12;
324:9;346:13;373:1;	286:1,4,7,11,14;	286:17;287:5,8	1	329:11;330:1,15,17,
374:1;377:5;395:15	288:8;294:22;	wrote (1)		18;331:5,7,12;332:6,
whiff (4)	296:14;298:9,12,21;	330:21	1 (1)	8;337:4,5,5,6,22,22;
296:22;297:11,14,	299:1,10,13,18,25;		329:4	338:9,16;347:10;
1.6				
16	300:5,7,9,12,20,25;	\mathbf{Y}	1,870 (1)	352:21
		Y	1,870 (1) 278:10	
whole (4)	301:7,14,21;302:8,		278:10	14.5 (1)
whole (4) 301:16;314:7;	301:7,14,21;302:8, 11,13,18,22;303:5,7,	year (69)	278:10 10 (6)	14.5 (1) 319:25
whole (4) 301:16;314:7; 318:20;329:25	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16;	year (69) 276:2,5,20;277:16,	278:10 10 (6) 278:5;281:4;282:8,	14.5 (1) 319:25 14.7 (2)
whole (4) 301:16;314:7; 318:20;329:25 Who's (1)	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23;	year (69) 276:2,5,20;277:16, 22;279:19;280:6;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24	14.5 (1) 319:25 14.7 (2) 319:25;320:17
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6)	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20)
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13)	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8;	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24;
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24;	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19,	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22;
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24;	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20)	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21;
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16,	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17;
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1)	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21;	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22;
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21,	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8;	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19,
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2)	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5,	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7,	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6;	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4,	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8;	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6)
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1)	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18,
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14,	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8;	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1)	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12,	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2)
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14,	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1)	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1)	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8,	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2)
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1) 382:2	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8, 20;353:14,22;354:12,	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5; 354:11;355:18;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21 11 (6)	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4 16 (1) 349:9
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1) 382:2 wildlife (1)	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8, 20;353:14,22;354:12, 23;355:21;356:3,7,	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5; 354:11;355:18; 357:16;358:1;359:7;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21 11 (6) 276:13;278:8,10;	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4 16 (1) 349:9 170 (13)
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1) 382:2 wildlife (1) 375:10	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8, 20;353:14,22;354:12, 23;355:21;356:3,7, 15,22;357:10;358:3;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5; 354:11;355:18; 357:16;358:1;359:7; 360:3;386:8,9	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21 11 (6) 276:13;278:8,10; 294:24;362:14,15	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4 16 (1) 349:9 170 (13) 275:19,19,22,25;
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1) 382:2 wildlife (1) 375:10 willing (4)	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8, 20;353:14,22;354:12, 23;355:21;356:3,7, 15,22;357:10;358:3; 359:14,20,23;360:21;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5; 354:11;355:18; 357:16;358:1;359:7; 360:3;386:8,9 years (31)	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21 11 (6) 276:13;278:8,10; 294:24;362:14,15 11,000 (1)	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4 16 (1) 349:9 170 (13) 275:19,19,22,25; 276:12;277:1;278:5,
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1) 382:2 wildlife (1) 375:10 willing (4) 361:15;393:9,20;	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8, 20;353:14,22;354:12, 23;355:21;356:3,7, 15,22;357:10;358:3; 359:14,20,23;360:21; 362:8,12,15,22;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5; 354:11;355:18; 357:16;358:1;359:7; 360:3;386:8,9 years (31) 279:23;339:18;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21 11 (6) 276:13;278:8,10; 294:24;362:14,15 11,000 (1) 381:3	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4 16 (1) 349:9 170 (13) 275:19,19,22,25; 276:12;277:1;278:5, 22;279:18;282:24;
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1) 382:2 wildlife (1) 375:10 willing (4) 361:15;393:9,20; 394:2	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8, 20;353:14,22;354:12, 23;355:21;356:3,7, 15,22;357:10;358:3; 359:14,20,23;360:21; 362:8,12,15,22; 363:2,4,7,17,19,24;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5; 354:11;355:18; 357:16;358:1;359:7; 360:3;386:8,9 years (31) 279:23;339:18; 342:8,10,21;343:7,	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21 11 (6) 276:13;278:8,10; 294:24;362:14,15 11,000 (1) 381:3 110,000 (1)	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4 16 (1) 349:9 170 (13) 275:19,19,22,25; 276:12;277:1;278:5, 22;279:18;282:24; 330:7;338:6,15
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1) 382:2 wildlife (1) 375:10 willing (4) 361:15;393:9,20; 394:2 wind (1)	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8, 20;353:14,22;354:12, 23;355:21;356:3,7, 15,22;357:10;358:3; 359:14,20,23;360:21; 362:8,12,15,22; 363:2,4,7,17,19,24; 372:5,8;373:2;377:6;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5; 354:11;355:18; 357:16;358:1;359:7; 360:3;386:8,9 years (31) 279:23;339:18; 342:8,10,21;343:7, 10;345:3;347:10;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21 11 (6) 276:13;278:8,10; 294:24;362:14,15 11,000 (1) 381:3 110,000 (1) 345:23	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4 16 (1) 349:9 170 (13) 275:19,19,22,25; 276:12;277:1;278:5, 22;279:18;282:24; 330:7;338:6,15 170-ton (1)
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1) 382:2 wildlife (1) 375:10 willing (4) 361:15;393:9,20; 394:2 wind (1) 297:13	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8, 20;353:14,22;354:12, 23;355:21;356:3,7, 15,22;357:10;358:3; 359:14,20,23;360:21; 362:8,12,15,22; 363:2,4,7,17,19,24; 372:5,8;373:2;377:6; 382:9,14;395:1,3	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5; 354:11;355:18; 357:16;358:1;359:7; 360:3;386:8,9 years (31) 279:23;339:18; 342:8,10,21;343:7, 10;345:3;347:10; 349:13,14;350:9,9,	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21 11 (6) 276:13;278:8,10; 294:24;362:14,15 11,000 (1) 381:3 110,000 (1) 345:23 1188 (1)	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4 16 (1) 349:9 170 (13) 275:19,19,22,25; 276:12;277:1;278:5, 22;279:18;282:24; 330:7;338:6,15 170-ton (1) 329:25
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1) 382:2 wildlife (1) 375:10 willing (4) 361:15;393:9,20; 394:2 wind (1) 297:13 window (2)	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8, 20;353:14,22;354:12, 23;355:21;356:3,7, 15,22;357:10;358:3; 359:14,20,23;360:21; 362:8,12,15,22; 363:2,4,7,17,19,24; 372:5,8;373:2;377:6; 382:9,14;395:1,3 woods (1)	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5; 354:11;355:18; 357:16;358:1;359:7; 360:3;386:8,9 years (31) 279:23;339:18; 342:8,10,21;343:7, 10;345:3;347:10; 349:13,14;350:9,9, 25;351:16,18;357:9,	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21 11 (6) 276:13;278:8,10; 294:24;362:14,15 11,000 (1) 381:3 110,000 (1) 345:23 1188 (1) 364:9	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4 16 (1) 349:9 170 (13) 275:19,19,22,25; 276:12;277:1;278:5, 22;279:18;282:24; 330:7;338:6,15 170-ton (1) 329:25 171 (1)
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1) 382:2 wildlife (1) 375:10 willing (4) 361:15;393:9,20; 394:2 wind (1) 297:13 window (2) 353:20,23	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8, 20;353:14,22;354:12, 23;355:21;356:3,7, 15,22;357:10;358:3; 359:14,20,23;360:21; 362:8,12,15,22; 363:2,4,7,17,19,24; 372:5,8;373:2;377:6; 382:9,14;395:1,3 woods (1) 307:11	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5; 354:11;355:18; 357:16;358:1;359:7; 360:3;386:8,9 years (31) 279:23;339:18; 342:8,10,21;343:7, 10;345:3;347:10; 349:13,14;350:9,9, 25;351:16,18;357:9, 13,13;360:3;363:20;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21 11 (6) 276:13;278:8,10; 294:24;362:14,15 11,000 (1) 381:3 110,000 (1) 345:23 1188 (1) 364:9 11-hour (1)	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4 16 (1) 349:9 170 (13) 275:19,19,22,25; 276:12;277:1;278:5, 22;279:18;282:24; 330:7;338:6,15 170-ton (1) 329:25 171 (1) 331:5
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1) 382:2 wildlife (1) 375:10 willing (4) 361:15;393:9,20; 394:2 wind (1) 297:13 window (2) 353:20,23 winter (1)	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8, 20;353:14,22;354:12, 23;355:21;356:3,7, 15,22;357:10;358:3; 359:14,20,23;360:21; 362:8,12,15,22; 363:2,4,7,17,19,24; 372:5,8;373:2;377:6; 382:9,14;395:1,3 woods (1) 307:11 work (20)	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5; 354:11;355:18; 357:16;358:1;359:7; 360:3;386:8,9 years (31) 279:23;339:18; 342:8,10,21;343:7, 10;345:3;347:10; 349:13,14;350:9,9, 25;351:16,18;357:9, 13,13;360:3;363:20; 366:12,15;377:12,13,	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21 11 (6) 276:13;278:8,10; 294:24;362:14,15 11,000 (1) 381:3 110,000 (1) 345:23 1188 (1) 364:9 11-hour (1) 278:10	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4 16 (1) 349:9 170 (13) 275:19,19,22,25; 276:12;277:1;278:5, 22;279:18;282:24; 330:7;338:6,15 170-ton (1) 329:25 171 (1) 331:5 172,500 (2)
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1) 382:2 wildlife (1) 375:10 willing (4) 361:15;393:9,20; 394:2 wind (1) 297:13 window (2) 353:20,23 winter (1) 293:15	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8, 20;353:14,22;354:12, 23;355:21;356:3,7, 15,22;357:10;358:3; 359:14,20,23;360:21; 362:8,12,15,22; 363:2,4,7,17,19,24; 372:5,8;373:2;377:6; 382:9,14;395:1,3 woods (1) 307:11 work (20) 279:25;281:20,25;	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5; 354:11;355:18; 357:16;358:1;359:7; 360:3;386:8,9 years (31) 279:23;339:18; 342:8,10,21;343:7, 10;345:3;347:10; 349:13,14;350:9,9, 25;351:16,18;357:9, 13,13;360:3;363:20; 366:12,15;377:12,13, 15,20,22;378:4;	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21 11 (6) 276:13;278:8,10; 294:24;362:14,15 11,000 (1) 381:3 110,000 (1) 345:23 1188 (1) 364:9 11-hour (1)	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4 16 (1) 349:9 170 (13) 275:19,19,22,25; 276:12;277:1;278:5, 22;279:18;282:24; 330:7;338:6,15 170-ton (1) 329:25 171 (1) 331:5 172,500 (2) 343:22;345:14
whole (4) 301:16;314:7; 318:20;329:25 Who's (1) 289:19 wide (13) 276:17,21,22,24; 278:1,2,5,6,15,22,24; 279:17,19 widest (1) 315:5 width (2) 315:1,5 widths (1) 315:24 wife (1) 331:20 Wikipedia (1) 382:2 wildlife (1) 375:10 willing (4) 361:15;393:9,20; 394:2 wind (1) 297:13 window (2) 353:20,23 winter (1)	301:7,14,21;302:8, 11,13,18,22;303:5,7, 12,15,18,22;304:16; 305:13;306:23; 307:9,25;308:10; 310:15;312:23; 319:25;320:14,16,19, 24;321:4;322:11; 323:11;324:6,9; 326:6,10;332:11; 333:5,11,16,18,21, 24;334:1,9,14;335:5, 12,16;336:3,9,15,18; 337:8,12,14,18,24; 338:1;344:11,21; 345:10,18;347:11; 348:8,11,19;349:24; 350:23;351:2;352:8, 20;353:14,22;354:12, 23;355:21;356:3,7, 15,22;357:10;358:3; 359:14,20,23;360:21; 362:8,12,15,22; 363:2,4,7,17,19,24; 372:5,8;373:2;377:6; 382:9,14;395:1,3 woods (1) 307:11 work (20)	year (69) 276:2,5,20;277:16, 22;279:19;280:6; 283:14;285:1,4,12; 286:2;308:21; 309:11,11;310:4,6; 321:18;322:23,25; 328:12;330:6; 331:16,24;333:4,6; 334:21;335:2,11; 337:5,6,9,11;342:7, 12,14,23,23;343:1,4, 8,19;344:4,13,13; 345:11,21,22;347:14, 19;349:8;350:9,12, 18,18,19;351:11; 352:8;353:4,5,5; 354:11;355:18; 357:16;358:1;359:7; 360:3;386:8,9 years (31) 279:23;339:18; 342:8,10,21;343:7, 10;345:3;347:10; 349:13,14;350:9,9, 25;351:16,18;357:9, 13,13;360:3;363:20; 366:12,15;377:12,13,	278:10 10 (6) 278:5;281:4;282:8, 8,8;328:24 100 (6) 278:25,25;280:7,8; 284:5,6 100,000 (20) 276:5,8,10;277:16, 17,22;280:9;282:21; 283:9,12,16;310:8; 329:13,14;330:6; 331:6,12;332:8; 338:10,16 100,000-ton (1) 276:2 10A (1) 287:21 11 (6) 276:13;278:8,10; 294:24;362:14,15 11,000 (1) 381:3 110,000 (1) 345:23 1188 (1) 364:9 11-hour (1) 278:10	14.5 (1) 319:25 14.7 (2) 319:25;320:17 15 (20) 275:8,11,24; 278:12,13;284:22,22; 288:25;309:21; 339:7;353:17; 377:12,13,15,20,22; 378:4;379:5;387:19, 22 15th (6) 280:12,12;285:18, 19;286:9,9 15-year (2) 379:20;380:4 16 (1) 349:9 170 (13) 275:19,19,22,25; 276:12;277:1;278:5, 22;279:18;282:24; 330:7;338:6,15 170-ton (1) 329:25 171 (1) 331:5 172,500 (2)

Madison County Board	or rajustinents		
242.2.2.2.4.4.4		2-2 4 - 40	50,000 (1)
349:8;359:12,14	273:4;347:16,18;	373:1,5,10,25;	60,000 (1)
1800 (1)	348:7,23;349:3;	374:1	280:6
278:10	353:15;361:17,20,20;	38 (2)	600- (1)
19 (7)	395:15,17	337:10,23	375:5
349:8,10;359:12,	215 (1)	,	606 (2)
13,14;362:14,15	324:17	4	374:12,18
191 (1)	22 (1)	-	62 (3)
315:4	302:5	4 (2)	276:15;277:3,21
		4 (3)	
192 (1)	220 (1)	329:5;377:4,5	620 (1)
315:4	324:17	40 (6)	374:24
195 (2)	221 (1)	294:13;304:22;	6800 (1)
315:13,14	311:4	311:14;337:10;	338:10
1950 (1)	221.7 (1)	338:15;390:15	
395:4	311:4	450,000 (1)	7
196.4 (1)	22nd (2)	321:18	
315:9	273:11;274:25	47 (5)	7 (1)
1999 (2)	23 (1)		385:16
		318:8;321:1,3;	
342:5;349:25	379:14	322:1,2	7,606 (1)
	23.9 (4)	48 (4)	346:21
2	385:1;386:18,19;	322:9,10;323:2,3	7:40 (1)
-	388:22	49 (5)	346:13
2 (2)	24 (6)	310:13,14,25;	7:58 (1)
287:20;379:11	379:1,4,14;385:10,	311:1,15	346:14
2,000 (1)	21;388:21	4th (5)	
322:4	250 (2)	347:16,18;348:23;	8
2.25 (1)	322:23,25	349:3;353:15	9
		349.3,333.13	9 (3)
333:6	26 (1)	_	8 (2)
2.4 (1)	328:4	5	322:22;395:17
333:5	2700 (6)		8.8 (1)
20 (5)	347:24;354:25;	5 (1)	385:13
275:8,24;309:21;	362:10;365:6;372:9;	329:4	8:00 (1)
346:9;353:17	379:19	5:00 (4)	346:10
· ·		\ -/	
20,000 (1)	28786 (1)	276.14 23.278.7	80 (3)
20,000 (1) 322.5	28786 (1) 386·25	276:14,23;278:7; 324:20	80 (3)
322:5	28786 (1) 386:25	324:20	285:7;333:3,8
322:5 200 (8)	386:25	324:20 50 (3)	285:7;333:3,8 800 (9)
322:5 200 (8) 311:5,6;312:14,16;	, ,	324:20 50 (3) 284:24;333:9;	285:7;333:3,8 800 (9) 293:13,18;324:11,
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15	386:25	324:20 50 (3) 284:24;333:9; 390:16	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1;
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11)	386:25 3 3 (6)	324:20 50 (3) 284:24;333:9; 390:16 5057 (1)	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1;	386:25 3 3 (6) 294:19,19,21;	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1)
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16;	386:25 3 3 (6)	324:20 50 (3) 284:24;333:9; 390:16 5057 (1)	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1;	386:25 3 3 (6) 294:19,19,21;	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1)
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11	386:25 3 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1)	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1)
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1)	386:25 3 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1)	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8	386:25 3 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1)	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1)
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12)	386:25 3 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1)	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19;	386:25 3 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3)	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6,	386:25 3 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2;	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3)	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1)
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25;	386:25 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16;	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17	386:25 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8)	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1)	386:25 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24;	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2)	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19	386:25 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20;	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1)	386:25 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24;	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2) 349:2;353:14	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19	386:25 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20;	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2)	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19 2008 (4) 349:22;357:22;	386:25 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20; 322:5 300 (4)	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2) 349:2;353:14	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16 99 (6)
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19 2008 (4) 349:22;357:22; 361:22;362:13	386:25 3 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20; 322:5 300 (4) 321:12,15;386:1,2	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2) 349:2;353:14	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16 99 (6) 348:6;349:12;
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19 2008 (4) 349:22;357:22; 361:22;362:13 200-foot (1)	386:25 3 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20; 322:5 300 (4) 321:12,15;386:1,2 300,000 (2)	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2) 349:2;353:14	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16 99 (6) 348:6;349:12; 351:7;352:3;357:25;
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19 2008 (4) 349:22;357:22; 361:22;362:13 200-foot (1) 315:18	386:25 3 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20; 322:5 300 (4) 321:12,15;386:1,2 300,000 (2) 322:23;323:1	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2) 349:2;353:14 6	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16 99 (6) 348:6;349:12;
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19 2008 (4) 349:22;357:22; 361:22;362:13 200-foot (1) 315:18 201 (2)	386:25 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20; 322:5 300 (4) 321:12,15;386:1,2 300,000 (2) 322:23;323:1 30-foot (1)	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2) 349:2;353:14 6 6 (4) 273:4;281:17; 282:8;395:15	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16 99 (6) 348:6;349:12; 351:7;352:3;357:25;
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19 2008 (4) 349:22;357:22; 361:22;362:13 200-foot (1) 315:18 201 (2) 311:7;312:8	386:25 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20; 322:5 300 (4) 321:12,15;386:1,2 300,000 (2) 322:23;323:1 30-foot (1) 288:1	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2) 349:2;353:14 6 6 (4) 273:4;281:17; 282:8;395:15 6,800 (1)	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16 99 (6) 348:6;349:12; 351:7;352:3;357:25;
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19 2008 (4) 349:22;357:22; 361:22;362:13 200-foot (1) 315:18 201 (2) 311:7;312:8 2011 (2)	386:25 3 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20; 322:5 300 (4) 321:12,15;386:1,2 300,000 (2) 322:23;323:1 30-foot (1) 288:1 30-ton (1)	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2) 349:2;353:14 6 6 (4) 273:4;281:17; 282:8;395:15 6,800 (1) 338:8	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16 99 (6) 348:6;349:12; 351:7;352:3;357:25;
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19 2008 (4) 349:22;357:22; 361:22;362:13 200-foot (1) 315:18 201 (2) 311:7;312:8 2011 (2) 361:25;362:13	386:25 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20; 322:5 300 (4) 321:12,15;386:1,2 300,000 (2) 322:23;323:1 30-foot (1) 288:1 30-ton (1) 277:2	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2) 349:2;353:14 6 6 (4) 273:4;281:17; 282:8;395:15 6,800 (1) 338:8 6:00 (4)	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16 99 (6) 348:6;349:12; 351:7;352:3;357:25;
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19 2008 (4) 349:22;357:22; 361:22;362:13 200-foot (1) 315:18 201 (2) 311:7;312:8 2011 (2) 361:25;362:13 2018 (3)	386:25 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20; 322:5 300 (4) 321:12,15;386:1,2 300,000 (2) 322:23;323:1 30-foot (1) 288:1 30-ton (1) 277:2 333 (4)	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2) 349:2;353:14 6 6 (4) 273:4;281:17; 282:8;395:15 6,800 (1) 338:8	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16 99 (6) 348:6;349:12; 351:7;352:3;357:25;
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19 2008 (4) 349:22;357:22; 361:22;362:13 200-foot (1) 315:18 201 (2) 311:7;312:8 2011 (2) 361:25;362:13	386:25 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20; 322:5 300 (4) 321:12,15;386:1,2 300,000 (2) 322:23;323:1 30-foot (1) 288:1 30-ton (1) 277:2	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2) 349:2;353:14 6 6 (4) 273:4;281:17; 282:8;395:15 6,800 (1) 338:8 6:00 (4)	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16 99 (6) 348:6;349:12; 351:7;352:3;357:25;
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19 2008 (4) 349:22;357:22; 361:22;362:13 200-foot (1) 315:18 201 (2) 311:7;312:8 2011 (2) 361:25;362:13 2018 (3)	386:25 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20; 322:5 300 (4) 321:12,15;386:1,2 300,000 (2) 322:23;323:1 30-foot (1) 288:1 30-ton (1) 277:2 333 (4)	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2) 349:2;353:14 6 6 (4) 273:4;281:17; 282:8;395:15 6,800 (1) 338:8 6:00 (4) 276:14,23;278:7; 324:20	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16 99 (6) 348:6;349:12; 351:7;352:3;357:25;
322:5 200 (8) 311:5,6;312:14,16; 313:21,25;315:1,15 2001 (11) 326:24,25;327:1; 342:3;343:1,16; 345:2,11,21;365:7,11 2002 (1) 343:8 2005 (12) 342:5;343:8,19; 345:2,14,23;348:6, 14;349:25;350:25; 358:5;361:17 2006 (1) 361:19 2008 (4) 349:22;357:22; 361:22;362:13 200-foot (1) 315:18 201 (2) 311:7;312:8 2011 (2) 361:25;362:13 2018 (3) 349:2;353:14;	386:25 3 3 (6) 294:19,19,21; 323:9,18;379:11 3.6 (1) 315:10 3.7 (1) 385:18 30 (3) 276:15;277:2; 304:22 30,000 (8) 277:2;279:19,24; 309:12,12,13,20; 322:5 300 (4) 321:12,15;386:1,2 300,000 (2) 322:23;323:1 30-foot (1) 288:1 30-ton (1) 277:2 333 (4) 385:7,23;386:4;	324:20 50 (3) 284:24;333:9; 390:16 5057 (1) 364:16 52 (1) 337:13 55 (1) 333:9 55,000 (1) 333:7 56 (3) 380:16;386:16; 393:23 5th (2) 349:2;353:14 6 6 (4) 273:4;281:17; 282:8;395:15 6,800 (1) 338:8 6:00 (4) 276:14,23;278:7;	285:7;333:3,8 800 (9) 293:13,18;324:11, 13,16;366:6;367:1; 370:5,7 80s (1) 327:4 832 (1) 346:24 85 (1) 333:8 9 9:00 (1) 395:12 9:02 (1) 395:16 99 (6) 348:6;349:12; 351:7;352:3;357:25;