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ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY Wednesday, September 20, 2017, 5:04 p.m.

VINCENT E. GRIEGO CHAMBERS ALBUQUERQUE-BERNALILLO COUNTY GOVERNMENT CENTER ALBUQUERQUE, NEW MEXICO 87102

A P P E A R A N C E S

KLARISSA PENA, Chair

DEBBIE O'MALLEY, Vice Chair

PAT DAVIS, Member

MAGGIE HART STEBBINS, Member

WAYNE A. JOHNSON, Member

TRUDY E. JONES, Member

PABLO RAEL

ROBERT J. PERRY

BEFORE: KIM KAY SHOLLENBARGER, RPR, CCR #236 Paul Baca Professional Court Reporters 500 4th Street, Northwest, Suite 105 Albuquerque, New Mexico 87102

Page 2 CHAIRWOMAN PENA: Welcome, everyone. 1 I call 2 the September 20, 2017 meeting of the Albuquerque Bernalillo County Water Utility Authority to order. 3 Let the record reflect that all the members 4 5 are present. Next we'll have a moment of silence and Pledge of Allegiance led by Commissioner O'Malley. 6 7 (Moment of Silence/Pledge of Allegiance) 8 CHAIRWOMAN PENA: Next is Item 3, approval of 9 the minutes. I make a motion to approve the August 10 23, 2017 minutes. 11 COMMISSIONER JOHNSON: Second. 12 CHAIRWOMAN PENA: There's a motion and a second. All those in favor say yes. 13 14 MEMBERS: Yes. 15 CHAIRWOMAN PENA: Oppose, no. Motion passes. The next item we have is proclamations and awards. 16 17 Silver Peak Performance Award. And this will be done 18 by Charles Leder. 19 MR. LEDER: Thank you, Madam Chair and 20 Members of the Board. My name is Charlie Leder, I 21 manage Plan Operations Division for the Water 22 Authority and one of the units I oversee is the Southside Water Reclamation Plant. 23 24 Thanks to your vision and wise guidance concerning providing enough funding for the Water 25

Authority to renew assets of the Southside Plant. 1 We 2 have been able to really achieve great performance. 3 In my five years on the job this is now the third year out of five that we have qualified for this award from 4 the National Association of Clean Water Agencies. 5 Ιt means we have had five or fewer excursions from our 6 7 National Pollutant Discharge Elimination System 8 permit. And present this award to you.

9 Thank you for giving us the tools and the 10 money and the resources to make this happen. We're 11 not done here with the Silver Award. As many of you 12 are aware, our executive director is now the secretary of that organization, and it's my hope he's probably 13 on a leadership path to be president eventually. It's 14 my hope that when he does become president we'll be 15 here to share a Gold Award, which means no permit 16 17 violations. In fact, maybe some point in the future 18 we'll be asking, "what is a permit violation?" 19 At any rate, again, thank you for your help 20 in achieving this award. 21 CHAIRWOMAN PENA: Congratulations. Any 22 questions or comments? Congratulations. You guys do some fantastic work. 23 24 (Applause) 25 CHAIRWOMAN PENA: The next item we have is

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Page 4 public comment. Ms. Carreon, how many people do we 1 2 have signed up to speak? 3 MS. CARREON: We have 19. CHAIRWOMAN PENA: So to those 19 people, 4 5 you'll have three minutes to speak with a two-and-a-half minute warning. Can you please call 6 7 the first person. 8 MS. CARREON: First speaker is Don Schrader 9 followed by Leah Nelson. 10 MR. SCHRADER: Why do the vast majority, over 11 90 percent, of people in Western Europe not have 12 fluoridated water? What do they know about the fluoridation that most people here do not? If you 13 question religious dogma, do you ever question 14 mainstream medical dogma? Do you know the many times 15 in medical history the so-called experts were terribly 16 17 wrong? How long did it take most doctors to condemn 18 smoking? How long did it take for some dentists to 19 stop using mercury in fillings? How many prescription 20 drugs developed by highly-paid educated scientists 21 were later recalled because of terrible, unintended 22 consequences? Have you read in-depth the arguments and studies condemning fluoridation? Do you remember 23 when nuclear power was praised and predicted to become 24 25 too cheap to meter? Do you know that sodium fluoride

Page 5 never, never is found in nature and sodium fluoride is 1 2 not the same as calcium fluoride found in nature. 3 Even if topical fluoride on teeth reduces cavities, are you absolutely sure fluoridated water coursing 4 through our bodies 24 hours a day for a lifetime has 5 no dangerous side effects to the rest of our bodies? 6 7 Is that it? 8 CHAIRWOMAN PENA: Yes, thank you. 9 MR. SCHRADER: Okay. There's no clock on the 10 podium like there usually is. 11 MS. CARREON: Leah Nelson followed by Tad Niemyjski. 12 Good evening and thank you all 13 MS. NELSON: 14 for the opportunity to speak tonight. My name is Dr. Leah Nelson, I'm a preventive medicine resident 15 and I also hold a Masters Degree in Environmental 16 17 Science and Engineering. I'm here tonight to urge you 18 all to approve fluoridation of the water system. As a 19 physician I know that both the American Medical 20 Association and the American Pediatric Association, as 21 well as their New Mexico affiliates, all support water 22 fluoridation. Water fluoridation reduces the rates of cavities and tooth decay, especially among low income 23 and uninsured people, which New Mexico has a fair 24 25 amount of and Albuquerque in particular has a lot of

uninsured and low income individuals. 1 More 2 importantly, the benefits of water fluoridation for 3 children lasts up to 40 to 50 years, so when they get to be 50 they'll still have fewer cavities than if the 4 5 water had not been fluoridated when they were young. Over 3,000 studies have been produced about the 6 7 effects of water fluoridation and the vast majority have shown that there is significant benefit and 8 9 minimal risk. I imagine that some of the speakers 10 tonight will be talking about a recent news piece that 11 was about a very small study from Mexico that showed 12 that in their study, IQ may have been lower. I read that study this week, the actual study, not the news 13 piece, and the study itself had about 65 pairs of 14 mothers and their babies. Very, very small. And the 15 fluoride that they were exposed to was not in the 16 17 water supply, but it was natural fluoride, not the 18 kind that we are adding to our water. A much larger 19 Canadian study, also published this week with over 20 2,000 children and much more rigorous methods, showed 21 no such benefit, but of course did not make the news. 22 I know I only have a few seconds. But I'm also a I can take my child to the pediatrician, I 23 mother. can take my child to the dentist to get his teeth 24 25 fluoridated every three months, but most families

Page 7 can't. And for those reasons, both as a resident of 1 2 Albuquerque and as a physician, I urge you all to 3 please, please, please add fluoride back into our water system. Thank you. 4 5 (Applause) MS. CARREON: Tad Niemyjski followed by Karen 6 7 Armitage. 8 MR. NIEMYJSKI: Thank you. My name Tad 9 Niemyjski. First, there is no clock. I know that 10 also right here. This Water Utility Authority 11 violating Open Meeting Act, which I'm talking about 12 R-17 and public comments, that's two separate things. R-17 is final. This is public issue. People have 13 14 right to speak. Two different issues. Thank you. Now, let's go to the issue, water. Anybody knows what 15 kind of water we drinking? Well, I speaking to Water 16 17 Sewer Authority. We drink sewer water, recycle sewer 18 water from the South Valley Recycle Plant. Now, 19 that's right. What is in the sewer, all kind 20 chemicals. For example, asphalt. Anybody look at 21 packaging when street being paved, all this oil. Yes, this oil goes to the river directly. And I can go on. 22 How about hospital? All this human waste going 23 through the sewer. How much chemical, how many 24 chemical. Now, fluoridating. Dentists, I met couple 25

dentists, they know that it is causing cavity, 1 2 fluoridation, but that for their business. They 3 pushing this agenda. Well, how about sugar, that's causing cavity, isn't it, and fatness too, people get 4 5 fat. Thank you. My time up. We need more time too. MS. CARREON: Karen Armitage followed by 6 7 Maggie Hertel.

8 SPEAKER: Hello. I want to thank you for the 9 chance to give public comment on this topic and for 10 your patience in listening to witnesses for many 11 weeks. I'm a pediatrician and public health 12 physician, and I wanted to talk about my own experience. Two things have happened. I have looked 13 into the mouths of tiny children all over Northern New 14 Mexico. I have been shocked to see very young 15 children with multiple cavities. 16 They were in 17 communities where there wasn't any natural fluoride and no fluoride had been added to the water. Then I 18 19 had the experience of being a mother. My children 20 lived here in this town when people in your seats saw 21 to it that the water was fluoridated. My children, 22 who are now grown, never had a cavity. And I remember thinking, this is remarkable, that this minor change 23 in public health could make such a difference. 24 I know people feel strongly about this, but I would ask us to 25

Page 9 remember that poison is tied to dosage and the tiniest 1 2 amounts of fluoride that are added specifically and 3 monitored all the time give our children a chance to have a life of no dental disease. I would like you to 4 remember what it's like to see children hiding their 5 mouths because there's something wrong with their 6 7 People not smiling for wedding pictures, not teeth. opening their mouth very wide in job interviews. 8 Dental disease is stigmatizing and it adds to the 9 burden of cardiovascular disease in the forties and 10 fifties. Thanks for being willing to take my 11 12 testimony. I really appreciate your thoughtful and careful attention to this topic. 13 14 (Applause) MS. CARREON: Maggie Hertel followed by 15 16 Mariela Leyba. 17 MS. HERTEL: Hi, I'm Maggie Hertel, I'm a 18 taxpayer and I have been a resident here for 40 years. 19 I have a serious question for this Council and for the 20 fine dental professionals here. When we were here two 21 years ago when you made a preliminary vote on fluoride 22 it was agreed that there were going to be outreach 23 programs to the communities. What happened? Where are the outreach programs? Did anything happen with 24 25 that? Are there any results? Here you are asking us

Page 10 to vote on the silver bullet again, which is your 1 2 fluoride solution, when nobody made the effort to 3 reach out to communities, to educate them about dental hygiene, to educate them about diet and sugar. What 4 5 happened to your commitment two years ago when we sat here before for this decision? That's what I want an 6 7 answer to, and I think the community does. Because the last time a dictator tried to control their water 8 9 situation and medicate their water supply, it was 10 Hitler, and it was fluoride. So I have serious questions here for the Council and the dental 11 12 professionals. Thank you. 13 (Applause) 14 MS. CARREON: Mariela Leyba followed by Bill 15 Haggard. Madam Chair, Members of the Board. 16 SPEAKER: 17 Thank you for the opportunity to give public comment 18 this evening on this very important issue. You 19 already heard of the many scientifically proven 20 benefits of community water fluoridation in our past 21 meetings and tonight. We have also heard some very 22 interesting views from those opposed to this practice.

Now, I understand the desire to allow the public to vote on this. However, I hope that we can avoid this for two reasons. Number one, the cost of campaigning

for either side is very unnecessary and wasteful. 1 Number two, unfortunately scare tactics are effective 2 3 to those who do not fully understand the benefit of fluoride. We all probably have at least known someone 4 5 affected by cancer. It hits home more for some than others when mentioned as a risk. Even though there's 6 7 no scientific evidence of such risks, people can 8 become very swayed to believe nonsense just because 9 they've heard it. And it's like preying on the 10 vulnerable. As a mother, I want the very best for my 11 child. I had the benefit of growing up with community 12 water fluoridation and I want the same for my son. As a public health dental hygienist, a life-long resident 13 of Albuquerque, I want what's best for our entire 14 community. I urge the Board to keep this simple and 15 utilize their knowledge and decision-making skills in 16 17 this unique opportunity to do what's best for the 18 health of our community and reinstate community water fluoridation. Thank you. 19 20 (Applause) 21 MS. CARREON: Bill Haggard followed by Rudy 22 Blea.

23 MR. HAGGARD: Hi, I'm Bill Haggard. Water is 24 my profession. I'm a colon hydrotherapist here in 25 Albuquerque and I'm also a Vietnam Veteran who was

exposed to Agent Orange while I was over there and 1 2 because of the chemicals in that particular spray that 3 defoliated jungles, got on a lot of soldiers, it tore them down too, because we're just a stronger plant and 4 5 it takes longer to take us down. So exposed to a lot of toxins. In my profession of colon therapy I help a 6 7 lot of people regain their health by getting the 8 toxins out of their body that they have either 9 accidentally or somehow accumulated over their life 10 span. And I fully want to not see fluoridation get 11 into the water system to where we add another toxic 12 burden to the body and no one has control over whether we get an overdose or too little. There's a lot of 13 natural fluoride in our water as it stands, which is 14 healthy. But anything done overage can cause other 15 problems. And I understand that it calcifies the 16 17 pineal gland, we don't need that. I would rather just 18 see them apply it with the toothpaste. Even then it 19 says, only use a pea size amount. I'm not very used 20 to speaking in public, but thank you for giving me the 21 opportunity. 22 (Applause) MS. CARREON: Joe Martinez followed by 23 Brandon Lund. 24 25 MR. BLEA: Good afternoon, ladies and

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gentlemen, Madam Chairman and Members of the Board. 1 2 My name is Rudy Blea and I'm with the Department of 3 Health. On behalf of the Department of Health, the Association of State and Territorial Dental Directors 4 and the Association of the American Public Health 5 Dentistry leadership, employees and members, I'm here 6 7 on their behalf to once again voice our support for community water fluoridation. We are also ready to 8 9 stand by you as you vote in favor of water 10 fluoridation; stand by you and do oral health 11 education within the community and other activities 12 besides fluoridating the water. As you are aware your water customers have been consuming fluoridated water 13 for decades and continue to do so at below optimal 14 levels. You have not heard or will not hear from any 15 opponent that they have developed an illness that can 16 17 be certified by a practicing physician or even a 18 dentist, that that illness has been caused by 19 consuming fluoridated water. We have seven years of 20 research supporting fluoridation with no health 21 effects. State and federal regulations ensure the 22 safety of consuming fluoridated water. Your staff, the water engineers of this system, are your guarantee 23 that the regulations established by both the state and 24 25 the federal government are enforced. Therefore, you

can then guarantee to your customers that the water 1 that they are drinking is safe. As educated men and 2 3 women and leaders of the community it is your duty to promote good oral health, especially via community 4 water fluoridation. Providing fluoridated water to 5 your customers is a good public health policy and in 6 7 the end you will be rewarded along with your 8 constituents. Thank you for allowing me to speak to 9 you. 10 (Applause)

MS. CARREON: Brandon Lund followed by JesusGalvan.

Thank you, Members of the Water 13 SPEAKER: Authority Board. Every day, every month that a 14 decision is delayed prolongs the pain, the discomfort, 15 the inability to eat properly for many children, many 16 17 elderly, for many persons with disabilities, for many 18 families. The decision to resume fluoridation of the 19 water system is not complicated. Most communities 20 across the country of similar size or larger size already do this as a common practice to prevent tooth 21 22 decay for many of its users. For all of its users. To delay this decision means that dental disease for 23 many could correlate, could progress to diseases of 24 diabetes and heart disease, very serious consequences 25

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for a failure to make a decision that you have an authority to make. Please make that decision tonight. To delay is to not take responsibility for something very positive that you can do. Do not delay. Make it happen for the benefit of so many people in this area. Thank you.

(Applause)

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8 MS. CARREON: Jesus Galvan followed by Brian 9 Baki.

10 I want to thank you all for taking SPEAKER: the time to hear us out on this. I think this is a 11 12 very important issue, especially dealing with the fluoride. What I want to say here so far is, I heard 13 a lot of argument between people saying for and 14 against fluoride, but I think what's not happening 15 here is communicating the distinguishment between 16 17 naturally-occurring fluoride versus artificial 18 fluoride. Naturally-occurring fluoride is calcium 19 fluoride, it's natural, it's good for you, it's great, 20 but the supplemental stuff is hydrofluosilicic acid, 21 this is toxic. I was here last month and they talked 22 about it and I wasn't impressed with that being added to the water for the problems of dumping the water 23 upon everybody for the sake of just a few. 24 I think it's time to know the difference between this so we 25

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can make an accurate decision. Before you here I have 1 2 two toothpastes. I have one, which is Crest, very 3 popular toothpaste. You all may have it in your cabinet at home. And over here is a natural one. 4 The 5 problem with the Crest toothpaste here, it says, "contact the poison control center if you consume too 6 7 much of it." Probably even more than a pea size. The natural toothpaste here, which is fluoride free, does 8 not contain anything about contacting the poison 9 control center. We're putting this stuff in the 10 11 mouths of our children. How good can this possibly 12 be, especially when we're dealing with a lot of toxins already in our environment. What is the last straw on 13 the camel's back that's going to continue to cause 14 more problems on the health of society, especially 15 when our cancer rates are going up and our life 16 17 expectancy is going down in this country. It's 18 something I'm very, very concerned about. Another problem too with fluoride, they say a small amount of 19 20 it is okay, but you don't have a problem with 21 bioaccumulation. Fluoride and aluminum stick 22 together, when it gets in our bones, it causes problems. Where I grew up I lived in a community 23 where there was fluoride in the water and I saw a lot 24 of dental fluorosis, so there's problems with that 25

Page 17 too. Overall, I think that the real question here 1 that we really need to get down to is oral hygiene and 2 3 what people are eating, especially for children. Because my dental health has gotten better since 2011, 4 it's because I did what my dentist told me to do. 5 And I think if we need to focus on nutrition and care for 6 7 children and what they're eating, that's going to 8 yield far better results than simply putting fluoride 9 in the water, especially such a tiny amount. Once 10 again, check your cabinets at home. Thank you so 11 much. 12 (Applause) MS. CARREON: Brian Baki followed by Joe 13 Valles. 14 Listening to people talk tonight 15 SPEAKER: you would think it's all about the tooth, the whole 16 17 tooth and nothing but the tooth. But it concerns me 18 that these degreed dental professionals are so unaware 19 of what they are talking about, while championing the 20 young children, they claim fluoride is safe to ingest. 21 Fluorine is a highly toxic element, symbolized by the 22 letter F. Fluorosis rots your skeleton and is named after this element. The CDC claims this affects 41 23

percent of American children, with numbers on the 25 rise. There are no metabolic processes in the human

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body that require fluoride. There is no such thing as 1 2 fluoride deficiency. And to top if off, the FDA has 3 never approved fluoride for consumption. Yet, we are force-fed this toxic industrial waste, with most of it 4 coming from China. Odd, that China with their 5 stringent environmental concerns no longer fluoridates 6 7 their water. Amesbury, Massachusetts discontinued water fluoridation after concerns of its Chinese 8 9 supply. The Public Works director said 40 percent 10 would not dissolve, resulting in broken machinery and 11 the inability to regulate dosing. Nothing ruins your 12 day like when your poison is poisoned. People have died from nothing more than drinking their tap water. 13 There have been numerous cases of mass poisons caused 14 by water equipment failure, including Los Lunas in 15 1978 when 34 school children were hospitalized with 16 17 acute fluoride poisoning. A dialysis patient died in 18 November '79 when a thousand gallons of excess 19 fluoride spilled into the water. And the largest 20 mishap occurred in Hooper Bay, Alaska, 296 people were 21 poisoned, one of them fatally. Four months ago this 22 was the front page headline of the Hindustan Times, fluoride contamination cripples more than 1,000 23 We were warned. The 1944 Journal children in Assam. 24 of the American Dental Association, drinking water 25

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containing as little as 1.2 parts per million fluoride
will cause developmental disturbances. While nail
polish may strengthen your nails, honestly, how many
here would drink it for the same purpose. As a human
being, I humbly suggest that you do not F-up our water
and consider getting the F out of it.

(Applause)

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8 MS. CARREON: Joe Valles followed by Tom9 Schripsen.

I thought there was a Jesus Galvan 10 SPEAKER: 11 before me, but I'll proceed. Again, thank you, Madam Chair Pena, for the opportunity to address this issue. 12 And I think you have to know that it's difficult to 13 come up here time and time again and repeat the same 14 I'll try to abridge it a little bit. I've 15 stuff. come here before and I've stated that as President of 16 17 the New Mexico Dental Association, that we have an 18 unreserve support for supplemental fluoridation at the 19 optimal safe, effective standard of .7 parts per 20 million set by the Center for Disease Control. This 21 standard is supported by numerous credible 22 institutions that sort through multitudes of reports and analyses leading to the recommendations. 23 And unless asked, I'm not going to go through all of 24 those, there's a substantial amount, because I've read 25

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them before into the record. This standard is also 1 2 supported by the West Side Coalition of Neighborhood 3 Associations, the Inter-coalition Panel throughout the city, and other neighbor associations. We have a 4 5 crisis in this state, a rampant decay in all forms of oral disease, particularly in children. We see it. I 6 7 invite you to our Mission of Mercy event this Friday 8 and Saturday at the Convention Center where you can see firsthand the needs that exist in this state that 9 10 we treat for free. We've done it every year 11 throughout the state. The numerous other services 12 that we provide to our patients at our loss is largely unknown by the public. I'm proud to be a member of 13 14 this noble profession. I was asked by one city employee, "why are the dentists so riled up about 15 fluoride?" My response was that, it is our duty as 16 17 doctors. Our mission states, "to promote the oral and 18 general health of the public in the State of New 19 Mexico, to advance the art and science of dentistry, 20 to represent the interests of the members and public 21 which it serves and to foster an awareness of the 22 obligation and responsibilities to society, " that's why we do it. The biggest bang for the buck is 23 prevention. The fluoridation plays a major part. 24 And I will say one more time, in 38 years I've not had one 25

patient come to me and complain of any illness due to
fluoride. And I urge you strongly not to punt this
down to some off year. Make the tough decision
tonight. Thank you very much.

5 (Applause)

6 MS. CARREON: Tom Schripsen followed by 7 Christine Nathan.

8 MR. SCHRIPSEN: Good evening. I'm Tom 9 Schripsen. I'm a dentist here for the last 34 years and I'm also the Executive Director of the New Mexico 10 Dental Association. I would like to frame this 11 12 question, this choice, in terms that really should This is a moral and ethical decision for you 13 apply. and you should make this decision on that basis. 14 Ιf you believe us, if you believe the science, if you 15 believe the CDHC, the World Health Organization, the 16 17 New Mexico Department of Health and all kinds of other 18 organizations, you will agree that adding a pinch of 19 fluoride and making our level of fluoride in our water 20 optimal is the right thing to do, that's what the 21 science says, that's the thing to do. But if you're 22 listening to what you're hearing on the other side and you want to believe that, then the choice is not to do 23 nothing, that's irrational. The only thing that you 24 25 can do reasonably is to put the money in the budget so

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1	that you start taking the fluoride out of the water.
2	If this is truly a poison, if this truly causes all
3	these diseases, if it's really that much a harm to
4	people drinking it, then the choice is to put reverse
5	osmosis filtration on every drop of water that comes
6	out of the tap. If this is a contaminant you should
7	be getting rid of it rather than doing that. That's
8	going to cost millions of dollars. So, please, make
9	your choice. Don't make your choice by sticking your
10	finger in the wind and deciding which direction the
11	wind is blowing. Make your choice based on the facts.
12	Look at what's best for our people here in
13	Albuquerque.
14	(Applause)
15	MS. CARREON: Christine Nathan followed by
16	David Manzanares.
17	MS. NATHAN: Hi, my name is Christine Nathan.
18	I'm a dental hygienist for over 30 years. I'm also
19	the Dental Hygiene Program Director at the University
20	of New Mexico. I've written a few textbooks on dental
21	public health and primary preventive dentistry that
22	include chapters on fluoridation, and so I have
23	individually read the research in those chapters,
24	which are hundreds of scientific articles that show
25	the benefits of water fluoridation. I also have a

mother who is a retired dental hygienist, so I knew 1 2 from an early age from my mom what it was like before a lot of the public water was fluoridated, and the 3 devastation that she had to see in children. So T 4 realize the difference we were able to make, and 5 really am disheartened by what's happened in 6 7 Albuquerque when we had fluoride for such a long time, 8 and luckily my children were able to benefit from I think the point that I like about fluoride 9 that. is, we have problems with access to care in all types 10 of health services, including dental health, whether 11 12 it's getting children to dental offices or people accessing care. But the one thing that community 13 water fluoridation does is it doesn't create any 14 disparities because we all have the ability to have 15 that water. So it's a really good preventive modality 16 17 and I hope you'll take that into consideration. Thank 18 you again. 19 (Applause) 20 MS. CARREON: David Manzanares followed by

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22 MR. MANZANARES: Good evening, Madam Chair, 23 Members of the Board. I'm Dr. David Manzanares, I'm a 24 general dentist here in Albuquerque. I'm also the 25 Secretary/Treasurer of the New Mexico Dental

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Elaine Hebard.

Association and a fellow of the Academy of General 1 2 Dentistry. You have heard the arguments. I can sav that fluoride does work. It helps prevent decay in 3 In older patients it's also effective. Because 4 kids. 5 what we see is, with the increase in medications that patients are taking, it causes dystonia. 6 We're 7 seeing, as you age, your gums recede a little bit and 8 that causes the root to be exposed. One of the new 9 crisis that's breaking out amongst the older 10 population is root caries. Fluoride helps to treat 11 this. It helps to address issues of sensitivity. One 12 of the things I hear all the time is people complaining about the cost of dental care. And I 13 14 agree, dental care is expensive because, fundamentally, every single dental procedure that I do 15 as a dentist is a surgical procedure. It involves 16 17 cutting into teeth. It involves going in there and 18 trying to repair surface that's been damaged. It is 19 far better to make sure that we can prevent these 20 issues from happening. This isn't a modality that is 21 economic. It is safe. It is proven. It is simple. 22 We've heard about the potential of having a referendum, and I appreciate this. But we already had 23 Using that sort of mechanism is like abusive, 24 one. 25 especially when the people have already decided,

they've already spoken on the issue. We can't go back 1 2 to the well and keep pulling on it like it's a slot 3 machine and waiting until you get the result that you want. So I urge you tonight, decide to put fluoride 4 5 back in the water system. If you do decide to go to a referendum, put it in because that's what the people 6 7 initially decided and then make the onus on people who want to remove it. Make them remove it from the 8 9 system. Thank you. 10 (Applause)

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MS. CARREON: Elaine Hebard followed by J.P.Timmerson.

MS. HEBARD: Hi, my name is Elaine Hebard. 13 And I'm glad to see all these other people show up to 14 have public comment so that I'm not the only one, as 15 I'm a long-time observer of these meetings, 16 usual. 17 however, and I do try to come up with some 18 suggestions. Today I would like to refer you to Item 19 9F, which is the 2017 fourth quarter performance 20 indicator report. The cover memo notes that it is not 21 directly tied to the objectives that the Board adopts 22 every year, so how is one to know whether or not the 23 objectives are ever met. For instance, there was an objective to continue development of a comprehensive 24 25 energy master plan to reduce energy demands for FY15,

'16 and '17. It was removed in FY18. Was it ever 1 done or dropped? Inquiring minds would like to know. 2 3 And it would be beneficial, I think, to this Board. The cover memo also says the score card indicators are 4 5 linked to the performance plan measures. Customer opinion survey responses and utility, effective 6 7 utility management attributes. Those attributes have 8 been updated -- they were supposed to be on the agenda 9 for the TCAC this month, they weren't and next month 10 they will be going to a -- the TCAC will be taking a 11 field trip. So it would be good to have these 12 discussions about these new updates with the TCAC. The performance plan has been posted, but it's never 13 actually presented to the Board, so you don't actually 14 have any idea. And what I want to show is that the 15 Board -- sorry. There are low rates for the return on 16 17 investments, so you are not spending very much, which 18 sounds good, except that you're very low on your 19 actual maintenance and replacements when looked at 20 with other utilities. So I would suggest that these 21 kinds of reports would be good to discuss with the 22 TCAC and each other and not just have a cheery little 23 summation. Thank you. 24 MS. CARREON: J.P. Timmerson followed by E. 25 Ward.

Good evening. As a thyroid patient 1 SPEAKER: 2 I'm against water fluoridation. Did you know that 3 fluoride was once used to treat hyperthyroidism, that's overactive thyroid. Today in areas that are 4 5 fluoridated there are two times as many hypothyroid, or underactive thyroid, patients as in non-fluoridated 6 7 So to fluoridate the water is to treat areas. 8 everyone for overactive thyroid. A quick look around 9 will help you understand that most people are 10 suffering from an underactive thyroid. Because the 11 water in so many areas of the country is fluoridated, 12 fluoride is already in many of our, and if not most, of our bottled drinks, soups and manufactured foods. 13 I don't know if I became hypothyroid because fluoride 14 was in the water that I drank and bathed in when 15 growing up, because I swallowed fluoridated 16 17 toothpaste, or because eight mercury amalgams were 18 placed in my mouth before my twelfth birthday. I 19 assure you, that this is a condition I would rather 20 live without. Fluorine is the most electronegative 21 element in the periodic table, this means that it will 22 rip an electron from anything to fill its outer shell and become stable. Why would you ever put this in 23 your body. Unlike other elements, fluoride --24 25 fluorine has no nutritional value to a human body.

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Fluoride is responsible for several health issues, 1 2 brittle bones, lowered IQ, infertility, endocrine 3 disruption, gastrointestinal issues and lower thyroid function are a few examples. When water is 4 fluoridated we are overdosed. Think about it. 5 No company reverse osmosis filters the water that they 6 7 put into their food products. One, if fluoride is safe, why bother. And two, it would raise the cost of 8 9 their products and what company wants to do that, 10 which means we are receiving an excess fluoride, an 11 amount difficult to measure because it's also absorbed 12 through skin during showers and baths. So fluoride is 13 packaged in food and drink. There's already plenty in Albuquerque, so we don't need to fluoridate the water. 14 The people who believed in 1950s hype that fluoride is 15 beneficial are able to purchase in a variety of 16 17 toothpaste and mouth rinses. Allow them to dose it as 18 they see fit. Please keep Albuquerque's water 19 fluoride free. Thank you. 20 MS. CARREON: Our last speaker, E. Ward. 21 SPEAKER: Madam Chair. My comments tonight 22 are mostly focused or driven -- derived from -- taken directly from the Cochrane review and that's a review 23 on water fluoridation and preventive tooth decay, 24 which I will direct pointedly to my colleagues in the 25

medical profession. So out of this massive review 1 2 when the data was -- predominantly from before 1975. 3 The introduction of water fluoridation resulted in children having 35 percent fewer decayed, missing and 4 5 filled baby teeth and 26 percent fewer decayed, missing and filled permanent teeth. We also found 6 7 that fluoridation lead to 15 percent increase in 8 children with no decay in the baby teeth and a 14 9 percent increase in children with no decay in their 10 permanent teeth. These results are based 11 predominantly on old studies and may not be applicable 12 today. There is insufficient information about the effects of stopping water fluoridation. There is 13 insufficient information to determine whether 14 fluoridation reduces differences in tooth decay levels 15 between children from poor and more affluent 16 17 backgrounds. Overall, the results of the study would 18 suggest that where fluoride level in the water is 0.7 19 parts per million, there's a chance of around 12 20 percent of people having dental fluorosis that is of 21 cosmetic significance. It's like 40 percent have it, 22 but about 12 percent is noticeable to other people. There were concerns about the method used of reporting 23 of results in some of the studies. It's difficult to 24 25 be confident of the size of the effects on the numbers

of people at different levels because it doesn't 1 2 include dietary habits and genetics. Insufficient 3 evidence to determine whether it changes disparities across socioeconomic status and there's not any 4 evidence to determine the effectiveness of water 5 fluoridation preventing caries in adults. 6 So what 7 you're looking at is your decision is making a benefit risk and then there's the cost benefit ratio to 8 consider and is the hundreds of thousands of dollars a 9 year where you want to use it or how would you use it. 10 11 MS. CARREON: And our last speaker is Jesus 12 Galvan. MR. GALVAN: Good evening, Madam Chair, 13 Members of the Board. Thank you for the opportunity 14 to speak with you this evening. Since I'm the last 15 one, Jesus Galvan. I've been a dentist, general 16 17 practice dentist, for over 40 years, and I have seen a 18 huge, broad spectrum of types of patients. I saw 19 patients in my practice, getting out of UCLA, working 20 in the barrio of LA, I saw many patients coming up 21 from Mexico who were entirely decay free. They had 22 fluorosis, but they were entirely decay free. Albuquerque has fluoridated water. We keep hearing, 23 don't fluoridate water in Albuquerque. Albuquerque 24 25 has fluoridated water. We have had it since the

Page 31 beginning of time. What science has allowed us to do 1 2 is achieve the optimal level of fluoride that will not 3 cause medical or dental problems, but decrease the incidence. Fluoride will not prevent cavities, but it 4 5 greatly decreases the incidence of decay in all individuals. So if we have fluoride, why do we want 6 7 to fluoridate the water. On average, our fluoride 8 level in Albuquerque is .3 to 4 parts per million, the 9 optimal level is .7. For every decrease in .3 parts 10 per million of fluoride, optimal fluoride in the 11 water, we lose two-thirds of the decay prevention 12 capabilities of the additional fluoride in the water. So we are supplemental fluoride. We are a fluoridated 13 community and have been all along. Thank you so much 14 for your time tonight. And I do have some signed 15 petitions that I can pass to you. 16 17 CHAIRWOMAN PENA: Thank you. 18 (Applause) 19 CHAIRWOMAN PENA: The next item we have is 20 announcements/communication. Our next scheduled 21 meeting is October 18, 2017 at 5 p.m. in the Vincent 22 E. Griego Chambers. Next item, 7, introduction of legislation, we have none this evening, so we go on to 23 consent agenda, we have none this evening, so now we 24

25 are on Item 9, approvals.

Page 32 We are on R-17-15, amendment to the approved 1 2 operating, capital implementation program of the 3 Albuquerque Bernalillo County Water Utility Authority for fiscal year ending June 30, 2018. 4 5 COMMISSIONER JOHNSON: Madam Chair, move 6 approval. 7 COMMISSIONER HART STEBBINS: Second. 8 CHAIRWOMAN PENA: There's a motion and a 9 I think now we'll open it up to discussion. second. Mr. Sanchez, do you have anything to add? 10 11 MR. SANCHEZ: No. 12 CHAIRWOMAN PENA: Okay, your name is just Any discussion? Mr. Perry. 13 there. 14 MR. PERRY: Madam Chair, I have a floor amendment specified as floor amendment number 1, 15 R-17-15, and this adds Section 4 to the bill. 16 17 Basically what it does is it states in Section 4 that 18 the optimum level for fluoride as determined by the 19 U.S. Environmental Protection Agency, Center for 20 Disease Control, is .7 parts per million. The Water 21 Authority is directed to add the supplemental fluoride 22 to achieve a target range of fluoride between 0.65 and 0.72 parts per million into the distribution system. 23 The Water Authority is further directed to continue 24 25 quality water monitoring and to report the average to

customers in the Consumer Confidence Report on an 1 2 annual basis. The reason why I put this amendment 3 into place was, I think our last speaker pointed out a fairly interesting situation with the fact that 4 fluoride does attenuate in water here in the 5 Albuquerque supply system. But I think that when you 6 7 look at the scientific issues that have been presented in more modern times and the EPA and Center for 8 Disease Control's work since 2012 in order to find 9 10 what that optimum level is, it's important to provide specific direction if we were to adopt this 11 12 legislation. And this, of course, would cap out the maximum allowable fluoride content at those specific 13 levels that I referenced. In addition, it provides a 14 certain degree of transparency to the public to the 15 extent that the water quality specifications and 16 17 amounts will be reported back to the public in the 18 Authority's Consumer Confidence Report. I've been on 19 this Board for seven years, I've heard the fluoride 20 debate probably about four years ago when we started 21 it and then, of course, a year ago and more recently 22 since May. And there are certainly some very, very interesting positions both for and against it. And it 23 presents a conundrum, a dilemma of significant 24 magnitude, which I really haven't seen and it's a 25

non-partisan dilemma because we all want to do what's 1 2 right for the public health and dental health of the 3 community, but at the same time we don't want to foist on folks that don't want that preventative component 4 5 put into the water system that's massly consumed. And I've struggled with that. I asked a preeminent 6 7 dentist who testified before, well, you've been a dentist for 35 years, and he said, "right." And I 8 9 said, "you must have given a lot of advice in that 35 years," and he said, "well, of course I have." 10 And I 11 said, "Have you ever had patients that haven't 12 followed the advice, " and he said, "well, yeah." And I said, "and you can't foist that on them, can you?" 13 And he said, "no." And I think one of the reasons why 14 is that the medical professional itself or the dental 15 profession, you know, they don't have the right to do 16 17 that. Who are we to basically foist that on folks 18 that wouldn't want it. But who are we also to deny 19 those folks that need it. And I think it's one of 20 those aspects and issues that you have to look at the 21 significant benefit with minimal risk to the public 22 for the benefit of a greater good. And we have children in socioeconomic lots and other folks in 23 vulnerable situations that I think, at least from the 24 advocates from the scientific community and a lot of 25

Page 35 science that supports it from those people that we 1 2 tend to rely on for our science, they certainly see a 3 prophylactic, significant benefit, and the supplemental fluoridation plan that's pointed out does 4 5 attempt to do that and any minimization of it back to the natural attenuation loses a great deal of that 6 7 benefit. So this amendment is intended to basically 8 capitalize that with limits and provide the public health benefits of fluoridation to those masses that 9 10 are in great need and are in vulnerable positions to 11 that. 12 CHAIRWOMAN PENA: Should we vote on the amendment first? 13 14 MR. PERRY: I move the amendment, Madam Chair. 15 16 COMMISSIONER JONES: Second. 17 CHAIRWOMAN PENA: There's a motion and a 18 second for amendment number 1. I guess before we 19 vote, some discussion. Commissioner O'Malley. 20 CHAIRWOMAN O'MALLEY: Thank you, Madam Chair. 21 There's this target range, so why is the range over 22 seven parts per million? We want to keep it as the optimal. We really don't want to go beyond it. 23 Why does it say .72 parts per million, that's my question. 24 25 Why don't we just have it at seven parts per million.

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MR. PERRY: Madam Chairwoman, Commissioner 1 O'Malley, I defer to technical staff at the Authority, 2 3 but I believe that's the specification in the optimum 4 range. 5 MR. SANCHEZ: Madam Chair, I think the range listed in the amendment is an acceptable range. 6 Ιf 7 you wanted to amend it to seven parts per million that would be fine too. But .72 is essentially seven parts 8 9 per million. 10 CHAIRWOMAN PENA: Commissioner O'Malley, did 11 you have anything to add? 12 CHAIRWOMAN O'MALLEY: Well, I think if we're saying the optimum is .7 parts per million, then 13 that's what we should say. We don't want to go beyond 14 that if that's the optimal amount. I would want to 15 amend the amendment to say between .65 and .7 parts 16 17 per million. CHAIRWOMAN PENA: So would the maker of the 18 19 motion consider the seven parts per million? 20 MR. PERRY: Madam Chairwoman, Commissioner 21 O'Malley, I understand what you're saying as the upper 22 limit threshold. I think what the intent was that it provides the flexibility to be at that average of 23 seven parts per million. Because, as you can also 24 see, the lower end is 0.65, I believe. 25

CHAIRWOMAN PENA: Commissioner Johnson. 1 2 COMMISSIONER JOHNSON: Thank you, Madam 3 Chair. One of the things that -- I believe all of this started several years ago when I wasn't on the 4 5 Board, when we decided not to fund fluoridation and it was because of some changes in the EPA standard. 6 And 7 I was wondering, this is the current standard of .7 8 parts per million. Perhaps we should just tie it to 9 the published EPA standard instead of having it -- so it can dynamically change if it becomes .5 tomorrow, 10 then we would automatically adjust our fluoridation to 11 12 match the current standard. And I don't have the language for it, but perhaps we can do a little 13 wordsmithing on this amendment and make it instead the 14 current EPA standard or standard published by the EPA 15 with a plus or minus or plus deviation of .02 and a 16 17 minus deviation not less .05, something along those 18 lines, then we achieve a couple of things. First of 19 all, we're always current with our standard, as far as 20 the efficacy goes from the EPA and we're not over or 21 underfluoridating the water. 22 CHAIRWOMAN PENA: Councilor Jones. 23 COUNCILOR JONES: Thank you, Madam Chair. I'm not sure where we are with this, except that 24 obviously this is very clarifying and comforting to be 25

Page 37

Page 38 able to hit on either side of that mark so that we're 1 not always required to have the .7. It seems to me 2 3 that this is a no brainer and that it protects the Water Authority, it protects the consumers as much as 4 5 we can when we're adding fluoride and it keeps within the requirements, but it doesn't cause us to have an 6 7 issue of where we are. It just gives us a little 8 flexibility so that we can do this correctly. I think 9 to put in, it must .7 although we're recommend that, but it can fluctuate. It can fluctuate by the amount 10 11 of water, it can fluctuate by the wells, what the 12 natural occurrence is. There are so many variables in So I think this is only a wise thing to do. 13 this. And thank you, Mr. Perry, to try to keep us from -- if 14 we should choose to add more fluoride, to keep us from 15 potentially having a problem. This just kind of gives 16 17 us the variation that we might need to protect 18 ourselves. Thank you. 19 CHAIRWOMAN PENA: Anyone else? 20 COUNCILOR DAVIS: Thank you, Madam Chair. Ιt 21 doesn't bother me whether we write the .7 CDC standard 22 plus or minus, five or ten percent, whatever that number is. But I understood, and if we're wrong staff 23 will correct us, but as Councilor Jones points out, 24 our natural background for fluoridation depends a lot 25

on the source we're using and that's seasonal for us 1 whether we're using San Juan water or groundwater and 2 3 also which wells in the city we're choosing to pull from, particularly groundwater sector and what time, 4 5 so I do think that. And this includes a report, which I think is really important as we do our annual 6 7 report, to give the public some transparency on what 8 the third-party validation is telling us about the fluoride levels. But I do know it needs to be there. 9 10 So I'm fine with where it is as written, because I see 11 that fluctuation being necessary and those levels 12 certainly would be permissible by the CDC and even It would give consumers confidence in the 13 under. Consumer Confidence Report, that we're doing the right 14 thing. So I think this achieves what Commissioner 15 Johnson was speaking of either way. So I'm fine. 16 17 CHAIRWOMAN PENA: Any other questions? So 18 are we considering amendment or we're not? I would just like to ask a question to the staff, I don't know 19 20 who would have the answer, because I can see what 21 Mr. Perry is trying to accomplish, but if the 22 recommended EPA is .7 and we add .2 to create that deviation of whether it would be, shouldn't we reduce 23 ours a little bit to create that? I mean, because at 24

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25 7.2, their standard is .7, so going to .72 is actually

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1	going over, even though it's whatever fraction it is.
2	So who could answer that question? I think along the
3	lines of what Commissioner Johnson was saying.
4	MR. SANCHEZ: Madam Chair, I think the point
5	would be that having a range is important, because
6	there will always be an average. And we certainly
7	understand we never want to be at beyond .7 parts per
8	million. If it's the desire of the Board to cap it,
9	that's fine. Just realize the range would be greater
10	more than likely at the lower end of that. It's very
11	difficult to say it will always be at .7 parts per
12	million and likely be under that slightly to make sure
13	we achieve the addition, not exceed seven parts per
14	million.
15	CHAIRWOMAN PENA: Back with Mr. Perry. So
16	you're going with the floor amendment. There was a
17	motion and a second. All those in favor of floor
18	amendment 1 say yes.
19	COMMISSIONER JOHNSON: Yes.
20	COUNCILOR DAVIS: Yes.
21	COMMISSIONER HART STEBBINS: Yes.
22	MR. PERRY: Yes.
23	COUNCILOR JONES: Yes.
24	CHAIRWOMAN PENA: Oppose, no.
25	CHAIRWOMAN O'MALLEY: No.

1 CHAIRWOMAN PENA: No. There's two nos. So 2 that motions passes. Now we are back on R-17-15. Are 3 there any questions? 4 COMMISSIONER JOHNSON: Madam Chair, I move 5 approval as amended. COMMISSIONER HART STEBBINS: Second. 6 7 CHAIRWOMAN PENA: There's a motion and a 8 second. Any discussion? Commissioner O'Malley. 9 CHAIRWOMAN O'MALLEY: Thank you, Madam Chair. I just want to know -- and I did struggle with this 10 11 issue. I was concerned obviously about some of the 12 many points that were brought up by folks who are in opposition to it and I think it was important to 13 listen to that and not dismiss all the comments as 14 exaggerated or that they weren't well thought out, 15 because I think people feel very strongly about this. 16 17 However, given the very strong support, especially 18 from pediatric dentists, and we had a toxicologist speak the last time about this small amount, that it 19 20 -- really feel strongly that it makes a difference in 21 children's health and their teeth. I feel like, you 22 know, they're the experts and I think it's important 23 to listen to what they have to say about this issue. So I just want to let folks know about that and that's 24 25 why I'm supporting putting this amount of fluoride in

to achieve the optimal level. Thank you. 1 2 CHAIRWOMAN PENA: Councilor Jones. 3 COUNCILOR JONES: Thank you, Madam Chair. Councilor O'Malley was correct, we did hear from a lot 4 5 of people, interestingly. We heard from many people on both sides of this issue. Many of the people 6 7 oppose to additional fluoride in our water were, in 8 fact, dentists and hygienists and scientists, they had 9 some great statistics. Both sides have numbers and 10 statistics. Because of that, there is -- it is 11 obviously not a perfect science and not everyone will 12 ever agree and I am opposed to adding more fluoride in our water until I see a more general approval rate on 13 it and more statistics, a larger percentage of 14 statistics to say it does help. I don't think at any 15 time the government should add anything to our water. 16 17 If some of us don't want it when we are bound by our 18 water supply and then answer is, well, we can drink 19 bottled water. And the answer is, well, the people 20 who want more can add more, by various means. So I'm 21 just philosophically opposed to this. I think it's a

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this, even with the amendment which does make it

bad thing. We don't know what it is doing to some

people because, again, we have all kinds of statistics

and percentages on both sides. So I will not support

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1 better.

2 CHAIRWOMAN PENA: Commissioner Johnson. 3 COMMISSIONER JOHNSON: Thank you, Madam Chair. I would echo some of those comments. 4 T'm going to support this, obviously I moved it. But it's 5 not one of those clear-cut things. One of the things 6 7 that I am absolutely sure about is nobody up here that's making the decision is an expert on either side 8 9 of the issue. And we as public officials oftentimes 10 get caught in the middle of these questions that are 11 highly detailed and highly scientific and at the end 12 of the day we're getting quotes from both sides claiming to quote some of the same sources and get 13 different answers and it becomes very difficult for 14 public officials in these positions to make those 15 decisions and at the end of the day you have to go 16 17 with, well, a belief system and you have to go with 18 the science that you're hearing. And in this 19 particular case I have to go with what the AMA and the 20 American Dental Association recommends, and the CDC 21 for that matter. So at the end of the day that's the 22 reason I'm going the direction I'm going in supporting this and moving this in the first place. So I do 23 thank you for your opinions. I thank you for your 24 25 discussion. I thank you for your civility, it's not

always the case. I know this can be a very passionate 1 2 So thank you very much. issue. 3 CHAIRWOMAN PENA: Councilor Davis. COUNCILOR DAVIS: Thank you, Madam Chair. 4 Ι 5 appreciate the conversation. You know, for more than four months now we've had this discussion at this 6 7 Board and in public forums, in neighborhood meetings 8 and through our emails and the paper, it's something we don't see very often, for the community to get 9 10 engaged in a conversation that something that this 11 Board is doing for that long and at such a level. And 12 honestly, in places we've struggled in public service lately to include the peoples voice in very big 13 decisions that affect them everyday. And I echo what 14 everyone else is saying. At the end of the day -- you 15 know, I also asked our staff to help draft a 16 17 resolution that if this Board doesn't reach a majority

18 opinion of what we do with fluoride, that we might 19 offer that option as one to send to voters next year 20 on a ballot perhaps if we can't settle that debate 21 here. But having listened to those concerns, I agree 22 with, which I have never said, Commissioner Johnson. That may not help you in your mayor's race, but the --23 as we looked at this earlier and as we heard from one 24 of our pediatricians earlier, you know, the questions 25

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that we have concerns about poisoning are tied to 1 2 As somebody pointed out, Vitamin D is dosage. 3 necessary for us everyday in our lives, but excessive doses of it can be used as poison, as can any of the 4 5 other minerals that are in our water that occur I'm encouraged by this because what I heard 6 everyday. 7 from folks in a particular conversation for someone who was concerned about fluoride in their water 8 9 because of their particular health concerns, was that they wanted to know how much was in our water everyday 10 so that they could work with a filter at their home 11 12 and to deal with their own personal concerns in a more predictable way. And I learned that our fluoride 13 fluctuates a lot in the city based on the season and 14 where we get it from. So I'm encouraged that we're 15 setting -- this amendment sets a standard at the 16 17 lowest CDC recommended public health level so that 18 it's consistent and people can make a decision and 19 that we're adding transparency so that in our report 20 that folks get every year to judge what in the 21 background is in our water, they know what's there and 22 they can make decisions about their own family based on what's available. So I'm encouraged by that. I 23 believe it's important that we know what's in our 24 25 I think we're taking an important step to do water.

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And I agree, at the end of the day when there's 1 that. 2 a question of science, I believe we listen to the 3 scientists and I believe the science -- the CDC and EPA review was clear, that the most updated science 4 5 still shows a public health benefit and anecdotally our local dentists are telling us that and I think 6 7 that's incredibly important for a state like New 8 Mexico where we're challenged with children's welfare 9 and health issues, that we at least do our part to set 10 and help them at the very minimal level possible for So, Madam Chair, I will support this. 11 us to do. In 12 the event it doesn't carry forward I hope we'll consider another option to let voters weigh in. 13 But I 14 agree and I support this. Thank you. CHAIRWOMAN PENA: Any other discussion? 15 No,

I just have a couple of questions. 16 okay. Some of 17 them have gone away based on the discussion that we've 18 So the money that's used, the 250,000 that we had. 19 have that's supposed to be allocated to accomplish 20 this, do we have a method for the fluoride like 21 concentration monitoring, is that part of the dollars 22 used or are we doing to have to use additional dollars or find additional dollars to do that? Because it 23 says, you know, to purchase the chemical and then also 24 to -- for the equipment, but would that be a 25

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1 monitoring system or do we already have that 2 capability?

3 MR. SANCHEZ: Madam Chair, we already have that capability. We do water testing at our lab. 4 5 CHAIRWOMAN PENA: Another question is the manpower associated with this is part of the \$250,000 6 7 that we've talked about here? 8 MR. SANCHEZ: Madam Chair, correct. 9 It is, okay. So for me, I CHAIRWOMAN PENA: 10 guess, without going into everything, you know, I 11 really appreciate everybody, you know, and their 12 comments. I've really learned a lot about fluoridation over the past few years. For me 13 14 personally, as Councilor Davis was talking about, you know, it's an overall -- I mean Mr. Perry was talking 15 about, you know, a significant benefit for the public 16 17 wellbeing. You know, there's a lot of things that we 18 can do, I believe, that could be of significant benefit, you know, but to actually fluoridate the 19 20 water and I just feel that, you know, because we have 21 such fluctuating levels in the water already that I'm 22 not comfortable with doing that. It's kind of like you stated, that, you know, if we put Vitamin D in the 23 water and, you know, does everybody, you know, want 24 25 Vitamin D. And, yes, there's the filtration system,

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but unfortunately when we're talking about people of 1 2 lower income and, you know, the benefit to them, to me it's an assumption that people with lower income don't 3 brush their teeth, you know, and there's studies too 4 5 that show that, you know, there's not necessarily a difference in terms of undeveloped countries where 6 7 kids aren't brushing their teeth and low income people 8 that are brushing their teeth. Anyway. And then my 9 other thing is that, you know, I mean, for me 10 personally this -- it does concern me obviously. 11 There's people who have other health concerns that 12 they have to deal with not just the, you know, the tooth decay, but there's other health concerns. 13 А lady spoke about, you know, the children and we don't 14 really know what that means to people. The National 15 Kidney Foundation has actually put out a paper and 16 17 they kind of withdrew a little bit because I think 18 there's so much support for the fluoridation of water, 19 you know, but people who have kidney disease there's 20 really a lot of concern about fluoride and through the 21 dialysis process. And then women who are 22 breastfeeding and showering and, you know, so we're monitoring it here at the Water Authority in terms of 23 how much is in the water, but are we really able to 24 25 monitor what people are taking in. So for me there's

still a lot of questions, you know. I mean, I know 1 2 there's a lot of organizations that do say that 3 there's a benefit and they're talking about an ultimate benefit for everyone, you know, and so a lot 4 5 of people through these discussions have cited the World Health Organization, you know. And I pulled up 6 7 the report on the fluoridation of water in our water 8 supply, you know, and one of the things that it does discuss in here is -- it has it -- I read it, it talks 9 about all the benefits and what it can do and how it 10 11 helps people. But I noticed that right in the 12 first -- the second page of it, it actually also says that with all reasonable precautions have been taken 13 by the World Health Organization to verify the 14 information contained in this publication. However, 15 the published material is distributed without warranty 16 17 of any kind, you know, either expressed or implied. 18 So, you know, these are all studies that have been 19 done and conducted and obviously they've had a good 20 But the World Health Organization kind of result. 21 says that, you know, this isn't where they believe we 22 should go. But anyway, with that, without kind of going on and on, I will not be supporting this. So I 23 guess if there's no other discussion we can go on to 24 25 R-17-15. All those in favor please say yes.

So I

COMMISSIONER JOHNSON: Yes. 1 2 COUNCILOR DAVIS: Yes. 3 COMMISSIONER HART STEBBINS: Yes. CHAIRWOMAN O'MALLEY: Yes. 4 5 MR. PERRY: Yes. 6 CHAIRWOMAN PENA: Oppose, no. 7 COUNCILOR JONES: No. 8 CHAIRWOMAN PENA: No. So with that, I think we have to go on to R-17 and I think I would need to 9 withdraw that, right, because that didn't apply. 10 will withdraw that. Do I need a motion and a second 11 to withdraw? So I make a motion to withdraw R-17-16. 12 13 CHAIRWOMAN O'MALLEY: Second. CHAIRWOMAN PENA: There's a motion and a 14 second. All those in favor say yes. 15 16 MEMBERS: Yes. 17 CHAIRWOMAN PENA: Oppose, no. No. I know I 18 can't do that, but so I'll switch it to yes. So the 19 next one, I guess, would be R-17-17. So this one, do 20 we need a motion to withdraw as well? 21 COUNCILOR DAVIS: Madam Chair, I would like 22 to make a motion to withdraw R-17-17, as this item is no longer necessary as we reached a decision. 23 24 COMMISSIONER JOHNSON: Second. 25 CHAIRWOMAN PENA: There's a motion and a

1 second. All those in favor say yes.

2 MEMBERS: Yes.

3 CHAIRWOMAN PENA: Oppose, no. Motion passes. So I think with that, we move on to R-17-18, 4 5 authorizing the Albuquerque Bernalillo County Water Utility Authority to submit an application for funding 6 7 to the Water Trust Board for Los Padillas Water 8 Systems Improvement Project. Mr. John Stomp. MR. STOMP: Madam Chair and Members of the 9 10 Board, this resolution before you is required for us 11 to make a request to the Water Trust Board for 12 additional funding for the Los Padillas water system. We've been working on that with Bernalillo County now 13 for several months and both parties have committed 14 funding to start the project, but we need additional 15 funding to complete the project. So we urge your 16 17 support to allow the executive director, to authorize 18 the executive director to submit an application for 19 one-and-a-half million dollars. 20 CHAIRWOMAN PENA: Thank you, Mr. Stomp. Are 21 there any questions? 22 COMMISSIONER JOHNSON: I move approval. 23 COMMISSIONER HART STEBBINS: Second. 24 CHAIRWOMAN PENA: There's a motion and a 25 second for approval. All those in favor say yes.

MEMBERS: Yes.

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2 CHAIRWOMAN PENA: Oppose, no. Motion passes. 3 I just want to thank you. This is a really important 4 part -- a project in my district and I really 5 especially want to thank Commissioner Quezada because 6 he was really -- as soon as he got elected he wanted 7 to make sure that this project happened. So thank 8 you, I appreciate it, John.

9 The next item is Item E, R-17-19 authorizing 10 the Albuquerque Bernalillo County Water Utility 11 Authority to submit an application for funding the 12 Water Trust Board for the Uptown Water Reuse Project. 13 Mr. John Stomp.

14 MR. STOMP: Madam Chair and Members of the Board, this is exactly the same as the resolution 15 requesting funding for the Winrock Reuse System. 16 We 17 have been working with Mr. Goodwin and Mr. Sand from 18 Winrock for several years on this project and so this 19 would authorize us to make a request to the Water 20 Trust Board for additional funding. They're both 21 here, Mr. Goodman and Mr. Sand are here, if you want 22 to ask questions of them. Or I'd be glad to answer 23 any questions. And request your approval. 24 CHAIRWOMAN PENA: Any questions? 25 MR. PERRY: I move approval.

1 COMMISSIONER JOHNSON: Second.

2 CHAIRWOMAN PENA: There's a motion and a 3 second.

4 COMMISSIONER HART STEBBINS: Madam Chair, I 5 just have a quick question. I don't know if 6 Mr. Goodman or John, could we get just like a very 7 brief description of the project and what the funding 8 is for.

MR. STOMP: Madam Chair and Commissioner Hart 9 Stebbins, sure. I apologize for that. Winrock right 10 11 now is under reconstruction and one of the ideas is to 12 take some of the effluent from Winrock, clean it up and reuse it on site and then be able to reuse it for 13 other city facilities, both Inez Park, Inez Elementary 14 School and Jerry Cline Park, right across the freeway. 15 So this would provide a reuse non-potable source 16 17 inside of Winrock for their landscaping and their other uses and then outside of that. So it's a small 18 19 project and it's about 50 or 60,000 gallons a day, so 20 for us that's a very small project where it could help 21 begin to forge that reuse inside the city limits as 22 opposed to what we've been doing in a larger scale. COMMISSIONER HART STEBBINS: Thank you. 23 And I am somewhat familiar with the project. 24 I just 25 wanted to make sure the public was also aware of what

this effort entails. So thank you. Thank you, Madam
Chair.

3 CHAIRWOMAN PENA: Thank you. Question,4 Commissioner O'Malley.

5 CHAIRWOMAN O'MALLEY: I just have a question. 6 So this is just an application to the Water Trust 7 Board, but what kind of commitment in terms of funds 8 are there?

MR. STOMP: Madam Chair and Commissioner 9 10 O'Malley, the funding request is a public/private 11 partnership, so we are requesting 60 percent grant 12 funding from the state. The remaining 40 percent would be provided by Winrock and so they would be on 13 the hook for their portion of the funding. We would 14 be in charge of the design/construction, and then we 15 would ultimately operate the facility when it's done. 16 17 But the financial obligation would be on Winrock to 18 match the funds.

19 CHAIRWOMAN O'MALLEY: So operating the 20 facility, what is the cost of that for the Water 21 Authority?

22 MR. STOMP: Madam Chair and Members of the 23 Board, we would be charging, of course, for the reuse 24 water to get some of that money back. But right now I 25 don't know that I can give you an exact number for

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Page 55 that. I would have to get back to you on that 1 specifically. I apologize for that. I don't want to 2 3 quess. 4 CHAIRWOMAN O'MALLEY: Thank you. 5 CHAIRWOMAN PENA: Mr. Perry. MR. PERRY: Madam Chairwoman, this is, I 6 7 think, the exact type of project that the city needs. 8 When I went to a couple of water conferences last year some of the jurisdictions, particularly I think it was 9 10 Orange County and some other folks that are in water 11 trouble, really there was a lot of discussion 12 regarding conservation efforts, particularly in the on site localized water treatment for reuse and on 13 14 non-potable, and I'm surprised that we're a little bit that far behind already. I think we'll probably be 15 seeing a lot more of this in the future. It has great 16 17 storm water benefits, obviously environmental benefits 18 and ultimately consumption benefits. So we obviously 19 got to look at the cost of this to see that the 20 financial analysis makes sense, but it's certainly 21 something that I think we need to explore here in 22 Albuquerque. And when you look at this particular site, in the uptown area, it's a great area to do it 23 in as well. I'll support this. 24 25 (NOTE: Commissioner O'Malley not present)

Page 56 MR. STOMP: Madam Chair and Members of the 1 2 Board, I didn't mean to say that we haven't looked at 3 this. We feel like this would be a single-person operation, probably once a day. The issue is with the 4 energy. We've been talking with them about connecting 5 to their solar system and so there would be an 6 7 exchange of energy provided from Winrock's solar 8 facility. So in terms of the energy that we would be 9 using would be less in terms of that purchase. So we 10 don't really have an arrangement in terms of the long-term operation, so we obviously thought about 11 12 what that cost would be, but I didn't want to be here telling you an exact number without really having all 13 the details. So again, I apologize. 14 CHAIRWOMAN PENA: No other questions? 15 Councilor Jones. 16 17 COUNCILOR JONES: Thank you, Madam Chair. 18 This is a great project, I think. It's leading the 19 way and hopefully we can get more people to

20 participate in the future and put their properties in something like this also. It's good for us. 21 It's 22 good for them. It's good for the city. And, 23 Mr. Goodman, thank you. You have the led the way in any number of projects in the City of Albuquerque and 24 25 we appreciate your being here and having face, enough

Page 57 face in our city that you just keep putting money into 1 it and we appreciate it. And that means that you're 2 3 also hiring people. So thank you, Mr. Goodman. CHAIRWOMAN PENA: So there's a motion and a 4 5 second for R-17-19. All those in favor say yes. 6 MEMBERS: Yes. 7 CHAIRWOMAN PENA: Oppose, no. Motion passes. 8 Thank you, Mr. Stomp. Next we have C-17-26, FY2017 9 fourth quarter performance indicator report. 10 Mr. Frank Roth. MR. ROTH: Madam Chair, Members of the Board. 11 12 Before you is the score card report. These are aligned to our goals and objections, benchmarking and 13 the customer opinion survey. Overall we achieved our 14 targets of 21 of the 23 indicators. And with the 15 exception of 2, which are still a work in progress in 16 17 the customer service category. However, we met all 18 our targets in compliance, operational, financial and 19 environmental. This is why we had such high marks 20 from our customers. Over 96 percent of our customers 21 are satisfied with the services from the Water 22 Authority and 97 percent of our customers are satisfied with the reliability of the water to their 23 homes and businesses. We will continue to work on 24 25 these targets, especially the ones that are being

Page 58 established for this current fiscal year in order to 1 2 improve our performance and to meet our service 3 levels. CHAIRWOMAN PENA: Thank you, Mr. Roth. 4 Are 5 there any questions? Seeing no questions, is there a 6 motion? 7 COMMISSIONER HART STEBBINS: I move approval. 8 CHAIRWOMAN PENA: There's a motion and a 9 second? 10 COUNCILOR JONES: Second. CHAIRWOMAN PENA: All those in favor of 11 12 C-17-26 say yes. 13 MEMBERS: Yes. 14 CHAIRWOMAN PENA: Oppose say no. Motion passes. The next item we have is other business. 15 We have Item A, OB-17-9 water loss control presentation. 16 17 Angelique Maldonado. 18 MS. MALDONADO: Good evening, Madam Chair and 19 Members of the Board. Tonight I'm going to talk to 20 you a little bit about water loss control and why it's 21 important. 22 Water utilities around the world are faced with the challenge of trying to reduce water losses 23 that are occurring from their distribution systems in 24 the form of leakage or line failure or theft. About 25

more than 12 billion gallons are lost globally every day in terms of drinking water. More locally, state and regional reporting programs really aim to evaluate water loss. They're really encouraging utilities to proactively pursue water loss control measures and allocate some financial and educational resources to mitigating these losses.

8 The New Mexico State Engineer requires 9 drinking water suppliers to assess their real water 10 leakage, look at the lost revenue associated with that 11 leakage and also consider the conservation potential.

12 The methodology that's utilized for this 13 water assessment is based on the American Waterworks 14 Association and Water Loss Control Committee 15 recommendations and software.

16 So as we ask our customers to conserve water, 17 it's important for us to set a good example and really 18 lead the way in making our water delivery system as 19 efficient as we possibly can.

20 Water loss control represents the efforts on 21 behalf of the Water Authority to hold ourselves 22 accountable as water stewards and reliably audit our 23 water supplies. And so this allows us to implement 24 controls to minimize these water losses. 25 In terms of scope, the Water Utility is the

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largest utility in New Mexico and so when we're 1 2 auditing our water supplies we're looking at the 3 source water that we're producing for drinking water purposes, which comes from surface and groundwater 4 5 sources and we're looking all the way down to the point where we deliver it to our customers. 6 So we're 7 assessing everything inbetween our distribution 8 system, which encompasses more than 3,300 miles of 9 pipe, 60 storage reservoirs, more than 46,000 valves 10 and in excess of 18,000 hydrants. We have more than 11 212 customer accounts, which represents about 630,000 12 customers.

13 The methodology that we use as recommended or required by the state engineer is this water loss 14 accounting. So it's a standard water balance and it's 15 considered the best practices in terms of industry 16 17 standard. What we're doing is we're looking at the 18 inputs and outputs to our distribution system and it's 19 only focusing on our potable water system. So we're 20 trying to measure the efficiency and effectiveness of 21 our delivery system.

Inputs would be all of our water that we're pumping from the ground and the surface water from San Juan Chama. And then outputs would be the water that we're selling to our customers. All of the water that

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we sell to our customers is metered, so those metered volumes are looked at and subtracted from the water that we put into the system. So that would be considered authorized consumption.

5 Another form of authorized consumption is 6 unbilled authorized consumption, which would be water 7 we use for operational purposes and also water that 8 firefighters use to fight fires. So when they tap 9 into a hydrant they don't put a meter so we can't 10 meter or bill for that water, but it serves a greater 11 good.

12 So these water losses that occur from our 13 water system, we're able to sort of parse out the data and look at where these losses are occurring in our 14 They're broken down by apparent losses and 15 system. real losses. Apparent losses would be those losses 16 17 that would occur from things like meter drift or water 18 theft and data handling errors. Real losses would be 19 the water that's actually lost from the system in the 20 form of leaks or line failures.

And so, the standards sort of shifted. Instead of just looking at water loss, the industry tends to look at it as non-revenue water. So since 24 2010 we've been utilizing this AWWA standardized water 25 audit software and one of the benefits to participating in this is we get our water audit data validated by a third party, so it gauges the integrity of our data. And so, all of this water auditing method is based on the data that we put in. So our data integrity is really critical to getting a good outcome from this audit.

7 So in terms of our non-revenue water results 8 from this audit, you can see that in the past five 9 years we've reduced our non-revenue water from 10.5 to 10 6.6 and when you parse out that non-revenue water and 11 you look at the components, unbilled authorized is in 12 the top in green and so that's going to be our operational water and water used from fighting fires, 13 and so that's always in the order of about 2 percent. 14 We have decreased that by about .4 percent. 15 Apparent losses in terms of customer metering and accuracies 16 17 and data handling errors has been reduced 18 significantly from 2.1 to about .5 percent. And our 19 actual real losses in terms of real water loss from 20 leakage or line failures has been reduced from 6.1 to 21 4.2. 22 If you look at annual water loss reduction, we've successfully reduced our water loss from 15.4 in 23 2004 to 6.6 last year. So we've cut our losses in 24 25 half, by more than half.

This data initiative, the water audit data 1 2 initiative, that validates our water audit data also 3 provides ability to sort of benchmark our success. And so, out of 21 utilities that participated in this 4 5 data initiative, we get to see the average in terms of the performance indicators that are produced by this 6 7 water audit. So non-revenue water as a percent of 8 volume, the average is on the order of 23 percent of 9 the water that they produce is lost. The Water Authority is at 6.6, so we're significantly below the 10 11 average. Non-revenue water total cost in terms of 12 million dollars per year, we are about a fifth of that. And in terms of the water audit validity score, 13 14 our data integrity, the average is about 75 percent and we got an 87 percent in terms of our data 15 16 integrity.

17 System leakage loss, when you're just looking at the actual real losses that are being lost from the 18 19 system, it's measured on losses per service connection 20 per day. So remember, we have in excess of 212,000 21 customer accounts and so every day we're losing about 22 16 gallons per connection per day. If you look at the median value that's above that's in black, right now 23 it's currently at 40 gallons per connection per day. 24 25 And being at 16 per connection per day, that's very

1 good.

The Water Loss Control Committee produced a document that summarized the 2015 water audit data initiative data and out of 27 utilities that participated in this initiative, we came in with the lowest amount of real losses out of all those 27 utilities and we are the tenth largest utility in terms of these utilities that participated.

9 Operational success measures. When you look at waterline integrity, it's measured on amount of 10 leaks or line failures per hundred miles of pipe. 11 We 12 have 3,300 miles of pipe, so you can see that we've reduced our line failures by 30 line failures per 13 hundred miles of pipe in the past eight years. So in 14 2008 we were at 49 leaks or line breaks per hundred 15 miles of pipe and we're currently at 19. When you 16 17 think of operational success measures or waterline 18 integrity, there's a certain amount of work that goes into that and so you can really gauge your system. 19

The Water Research Foundation developed these distribution optimization criteria and it describes an optimized distribution system as having 15 breaks per hundred miles of pipe. So since we're at 19 breaks per hundred miles of pipe, we're really close to optimizing our distribution system.

Workforce success measures. A big part of 1 2 reducing real losses from the system is responding to 3 leaks and line breaks. So when we look at our work order system we're able to see how quickly we respond 4 to line break failures. And our field crews have done 5 a tremendous effort and reduced those line response 6 7 times to line break failures, so that significantly 8 decreases the water loss from your system.

9 Also a benefit from looking at the work order 10 system is really identifying which pipes are failing. 11 The types of pipe is important to understand the 12 dynamics of your system. So we keep a pipe inventory, we can tell which types of pipes we have in our pipe 13 inventory and then we can tell which types of pipes 14 are failing. When you think about the requirements of 15 the state engineer and how they really promote some 16 17 proactive leak detection and loss prevention, a big 18 part of that has to do with the pipe types.

Leak detection is a matter of listening to the acoustic sound of your pipes. So you can identify a leak by the sound. When you turn the water on in your home you can hear the water flowing through your pipe and it's the same idea when it comes to a leak. So to identify leaks proactively we go out and survey the system. We listen for leaks at hydrants, valves

and meters. And so every year we have a two-man crew 1 2 that goes out and they listen for these leaks at our 3 system. They survey almost the entire system every year. We've identified about a hundred leaks per year 4 5 proactively, that really reduces the amount of catastrophic failure and funds needed to repair these 6 7 And so, targeted leak detection is possible by pipes. 8 knowing the pipe inventory. You can only listen for 9 pipe leaks on metal pipes. So knowing where these 10 pipe failures are happening and then looking at where 11 the pipe materials are, we can send out these leak 12 detection crews to be more effective in their approach for listening for leaks proactively. 13

14 So in conclusion, water loss control has 15 reduced water loss by 3.38 billion gallons per year 16 since 2004. If you add up all that water, that's 45 17 billion gallons. That's a year-and-a-half supply that 18 we've saved in 12 years.

Water audit data validity has increased from 74 percent to 87 percent since 2010, so our data integrity is getting much better. Field crews have reduced response times to line failures by 30 percent since 2009 and water quality complaints have been reduced by 33 percent since 2008.

25 So that concludes my presentation. Do you

Page 67 1 have any questions? 2 CHAIRWOMAN PENA: Any questions? Councilor 3 Jones. 4 COUNCILOR JONES: Thank you. I don't have 5 any questions, but excellent report. Great information and well presented. I really appreciate 6 7 it. Thank you. 8 MS. MALDONADO: Thank you. CHAIRWOMAN PENA: Yes. As stated earlier, 9 you all are doing a tremendous job. So thank you. 10 11 Appreciate it, Ms. Maldonado. Next item. Since there's no other items, 12 13 this meeting is adjourned. (Meeting adjourned at 6:34 p.m.) 14 15 16 17 18 19 20 21 22 23 24 25

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