

1                   ALBUQUERQUE BERNALILLO COUNTY  
2                   WATER UTILITY AUTHORITY  
3                   Wednesday, March 22, 2017 5:05 p.m.

4                   ALBUQUERQUE BERNALILLO COUNTY GOVERNMENT CENTER  
5                   ONE CIVIC PLAZA, NW  
6                   ALBUQUERQUE, NM 87102

7  
8                   Before: Paul Baca  
9                   PAUL BACA PROFESSIONAL COURT REPORTERS  
10                  500 Fourth Street, NW, Suite 105  
11                  Albuquerque, New Mexico 87102

12  
13                   A P P E A R A N C E S

14  
15                  COUNCILOR KLARISSA PEÑA, Chair  
16                  COMMISSIONER DEBBIE O'MALLEY, Vice Chair, Excused  
17                  COUNCILOR PAT DAVIS, Member, Excused  
18                  COUNCILOR TRUDY E. JONES, Member  
19                  COMMISSIONER MAGGIE HART STEBBINS, Member  
20                  COMMISSIONER WAYNE JOHNSON, Member  
21                  MAYOR RICHARD J. BERRY, Member  
22                  TRUSTEE PABLO RAEL, Ex-Officio Member  
23                  MR. ROB PERRY, Admin. Officer, Alternate Member,  
24                  Excused

25  
**PAUL BACA PROFESSIONAL COURT REPORTERS  
500 FOURTH STREET NW - SUITE 105, ALBUQUERQUE NM 87102**

1 CHAIRWOMAN PENA: Thank you, everyone. I  
2 call this March 22, 2017 meeting of the Albuquerque  
3 Bernalillo County Water Utility Authority to order.

4 Let the record reflect that Commissioner  
5 Debbie O'Malley, Councilor Pat Davis and Mr. Rob  
6 Perry, are excused. All other members are present.

7 Next item we have is the invocation,  
8 Pledge of Allegiance. Moment of violence and the  
9 Pledge of Allegiance led by Commissioner Johnson.

10 (Whereupon, there was a moment of  
11 silence.)

12 (Whereupon, the Pledge of Allegiance was  
13 led by Commissioner Wayne A. Johnson.)

14 CHAIRWOMAN PENA: Next item we have is the  
15 approval of the minutes. I make a motion to approve  
16 the January 25, 2017 minutes. Is there a second?

17 COMMISSIONER JOHNSON: Second.

18 CHAIRWOMAN PENA: There is a second on the  
19 floor. All those in favor say yes, please.

20 ALL MEMBERS: Yes.

21 CHAIRWOMAN PENA: Opposed, no.

22 Motion passes.

23 (5/0 Vote. Agenda Item 3 approved.

24 Commissioner Debbie O'Malley, Councilor Pat Davis  
25 and Mr. Rob Perry not present for vote.)

1 CHAIRWOMAN PENA: Next items is  
2 proclamations and awards. We have the NACWA2017  
3 Public Information and Education Award that is going  
4 to be presented by Ms. Katherine Yuhas.

5 MS. YUHAS: Madam Chair, Members of the  
6 Board, it is my privilege tonight to be here with  
7 Jack from our puppet show. He has been the star of  
8 the shows since we started him. He is wearing a  
9 little hat here that says Save 2, that is to remind  
10 all our customers to save two gallons of water per  
11 person per day.

12 We are here tonight to present this award  
13 from National Association of Clean Water agencies.  
14 It is the second award our education program has  
15 gotten this year. And this one is specifically for  
16 the conservation education program. So, thank you  
17 very much for your support of our programs for the  
18 education.

19 CHAIRWOMAN PENA: That is great, thank  
20 you. Thank you, Ms. Yuhas.  
21 Councilor Jones.

22 COUNCILOR JONES: Ms. Yuhas, it is always  
23 fun to see you. You bring great friends with you  
24 and you are always entertaining. Thank you for  
25 everything do you for us.

1 MS. YUHAS: Thank you.

2 CHAIRWOMAN PENA: Thank you, Ms. Yuhas.

3 The next item we have is Item B, U.S.

4 Water Prize Submittal Video. Mr. David Morris.

5 MR. MORRIS: Thank you very much, Madam  
6 Chair, Members of the Board. Of course, you're  
7 quite familiar with the Water 2120 Resource  
8 Management Strategy, which the Board approved last  
9 year.

10 To better inform the public and  
11 stakeholders about water 2120, we made it the  
12 featured element in our 2016 annual report which  
13 just came out, and we also produced the video about  
14 the plan which we will be posting in You Tube  
15 bearing on Gov TV and we have submitted in support  
16 of the Water Authority's candidacy for the 2017 U.S.  
17 Water Lands Water Price.

18 This prize is considered the preeminent  
19 national recognition program for sustainability  
20 efforts in the water arena.

21 So if technology will cooperate, I know we  
22 have been down this road before, but if technology  
23 will cooperate we would like to play the video for  
24 you now. And if it doesn't, we have a copy of the  
25 video for you on a little jump drive that is in your

1 packet along with some annual reports for your use.

2 All right. Here we go.

3 (Whereupon a video was shown.)

4 MR. MORRIS: So thank you for your  
5 patience. If you have any questions I will be happy  
6 to try to answer them or if you have Water 2120  
7 questions, we can bring up the subject matter expert  
8 on that.

9 CHAIRWOMAN PENA: Anybody? Councilor  
10 Jones.

11 COUNCILOR JONES: Not a question, but well  
12 done. Well done to all of you and David and  
13 Katherine and the entire company, Water Utility  
14 Authority. Thank you very much. This is something  
15 to be proud of.

16 MR. MORRIS: Thank you very much. I  
17 appreciate it.

18 CHAIRWOMAN PENA: Any other questions? If  
19 not, I just want to say congratulations, what an  
20 outstanding video. I want to compliment you, Mark,  
21 for really being a great leader and having the  
22 vision to have surrounded yourself with some even  
23 greater people that know how to accomplish this to  
24 really be able to regenerate the aquifer and, you  
25 know, for us to be at the place we are with the

1 issues that we have nationwide is pretty  
2 outstanding. So thank you.

3 Next item we have is public comment.

4 Ms. Jenkins, how many people do we have signed up to  
5 speak.

6 MS. JENKINS: We have three.

7 CHAIRWOMAN PENA: Call the first speaker,  
8 please.

9 MS. JENKINS: Jennifer Thatcher followed  
10 by Elaine Hubbard.

11 MS. THATCHER: Hello, Jennifer Thatcher,  
12 chair of the Water Protection Advisory Board. I  
13 would like to read a letter from our Board in  
14 recognition of significant progress for corrective  
15 action activities at the Kirtland Air Force Base  
16 site.

17 For the last several years the Water  
18 Protection Advisory Board has been monitoring the  
19 status of corrective action activities for the  
20 Kirtland Air Force Base, bulk fuels facilities leak  
21 site. It's been the observation of the Water  
22 Protection Advisory Board members that over the last  
23 two years and specifically since in the involvement  
24 of the Air Force Civil Engineering Center, the Air  
25 Force has made great improvements in its cleanup

1 efforts. Of particular note is the seemingly use of  
2 extraction wells to capture the plume which is the  
3 closest threat to the Water Authority's Ridgequest  
4 well fields.

5 Water Protection Advisory Board members  
6 anticipate even greater progress once well planned  
7 extraction wells are in operation. The membership  
8 is also encouraged by the planned deployment later  
9 this year of additional technologies for mitigation  
10 of concentrated contamination and aquifer and the  
11 deep soil below the base. With this said the  
12 Kirtland Air Force Base BFF leak site remains the  
13 top priority for the Water Protection Advisory  
14 Board.

15 Members encourage continued steady  
16 engagement by the New Mexico Environment Department  
17 and the Air Force with stakeholders and local  
18 leaders on this critical effort to eliminate the  
19 threat to Albuquerque's drinking water supply.

20 Thank you.

21 CHAIRWOMAN PENA: Thank you.

22 MS. JENKINS: Elaine Hubbard followed by  
23 Tad Niemyjski.

24 MS. HUBBARD: My name is Elaine Hubbard  
25 and happy World Water Day. Actually it is great

1 following what Jennifer Thatcher was talking about  
2 because it is wastewater. And, of course, there is  
3 way too many things on the agenda for me to cover,  
4 so if I sound critical I don't mean to be it is that  
5 I have to shrink my comments into a really short  
6 sound byte.

7 I always try to make suggestions to  
8 improve the water utility. So today I would like to  
9 talk about something that I have talked about many  
10 times before, which are goals and objectives.

11 The memo says that the Water Authority  
12 established five-year goals in 2005, perhaps it is  
13 time, 12 years later, to relook at them.

14 The Water Authority uses the American  
15 Waterworks Association's benchmarking performance  
16 indicators for water and wastewater for its goals.  
17 It also uses effective utility management tools.

18 And those have been -- they were created  
19 in 2007 but they have been updated in 2016. My  
20 suggestion is that there be a presentation for your  
21 consideration on these new goals and objectives that  
22 are being presented by the federal -- the national  
23 groups.

24 Linking the goals and their objectives and  
25 evaluating them as a part of this process, do they

1 achieve the mission? Do they incorporate the  
2 aspirations of the ratepayers as expressed in the  
3 customer surveys? Are they helping us to achieve  
4 resiliency? What are the measurable metrics to show  
5 this? And I have -- the graphic here is to show  
6 that -- how those things between mission, goals,  
7 objectives, strategies all fit together, because I  
8 think it helps.

9           Again, I think that looking at the EPA's  
10 moving to our sustained ability, sustainable and  
11 effective practices for creating your water or  
12 utility roadmap would be a good presentation for the  
13 Board to consider. How does the Board know that  
14 success has been reached? On the agenda today is a  
15 second quarter report, performance report, but it  
16 says it is not actually linked to any specific  
17 objective. So how about having a report back on  
18 whether or not the objectives are actually met.

19           There should be metrics with those  
20 objectives. For example, there is Goal 1,  
21 Objective 6 to evaluate the project's progress.  
22 Well, that is nice but what are the metrics to  
23 evaluate or to show resilience.

24           Finally, the goals and objectives budget  
25 says that these are to be coordinated with the City

1 and the County governments, so in order to adopt the  
2 goals and objectives process that encourages active  
3 citizen participation, please make a process that  
4 encourages and sets these goals with the City and  
5 County as well.

6 Thank you.

7 MS. JENKINS: Tad Niemyjski.

8 MR. NIEMYJSKI: Thank you.

9 My name is Tad Niemyjski. Well, I have  
10 got many questions. For example, financing,  
11 self-financing and off Central Avenue associated  
12 with Central Art projects beginning 2015, 2016, and  
13 now 2017, especially like Broadway and First Street  
14 then Broadway and Central, of course, and even now  
15 First Street so all of this right here you can walk  
16 and see downtown.

17 So, anyway, that let's not forget about  
18 the UNM area has been dug out for a long time. Also  
19 Old Town, too, the water, sewer, storm, arroyo which  
20 is not your arroyo. Water from that arroyo flowing  
21 this direction to the river.

22 So, I would like to know, I would like to  
23 have some information about billing by TLC in  
24 Albuquerque underground.

25 Well, 2020, of course, it is around the

1 corner. You have been very quick, time goes fast.

2 So, anyway, those are my many questions. I hope

3 somebody can give me answer. I don't see --

4 Mayor Richard Berry is not present today or maybe

5 too busy. It looks like three members missing.

6 Anyway, that is all I got to say.

7 Thank you.

8 CHAIRWOMAN PENA: Thank you. Is that the

9 last of the speakers? Thank you, I appreciate that.

10 The next item we have Announcements and

11 Communication.

12 Next scheduled meeting is April 19 at

13 5:00 p.m. in the Vincent E. Griego chambers.

14 Now we are on introductions of

15 legislation, so we have Item A, R-17-5 establishing

16 one-year objectives for the Water Authority in

17 fiscal year 2018 to meet five-year goals.

18 All right. Mr. Frank Roth.

19 MR. ROTH: Thank you, Madam Chair, Members

20 of the Board. In front of you today for

21 introduction is the FY18 goals and objectives.

22 The goals and objectives are a major

23 component of the utility's strategic planning and

24 budgeting improvement process. It helps guide and

25 develop the operating budget which will be

1 introduced at the April meeting.

2           So part of these goals and objectives in  
3 the development of the budget, we rely on the  
4 performance plan, the American Waterworks  
5 Benchmarking Program and the EPA Effective Utility  
6 Management. With all of this hard data we also  
7 obtained an input from our customers through  
8 customer opinion surveys, our Advisory Committee and  
9 more recently our customer conversation, which you  
10 saw in the video, those engagement sessions which  
11 deal with hot important topics or issues that the  
12 utility is facing. We obtained, understand the  
13 customer's expectations through these meetings but  
14 also integrate the employees performance  
15 accountability through our employee expectations.  
16 All of this to hopeful fulfill the mission of the  
17 utility.

18           On this slide you will see the five-year  
19 goals. These -- under these goals we develop the  
20 guiding goal statements. These are longterm out of  
21 desired outcomes that we want to achieve in the  
22 longterm in each of these goal areas. And to  
23 measure our progress in each goal area, we have  
24 these key performance indicators that help evaluate  
25 our performance in each goal area. We rely on --

1 not only do we measure our performance every year,  
2 but we also benchmark our performance against other  
3 leading utilities. It is through this process of  
4 benchmarking and performance assessment that we  
5 identify performance gaps in operations and service  
6 delivery. We address those performance gaps through  
7 the budget process by allocating and prioritizing  
8 resources through these one-year objectives which  
9 relate to the performance measures, effective  
10 utility management, but also through the performance  
11 assessment that we conduct on every year.

12           There is 56 objectives in FY18. As I  
13 mentioned, that incorporate areas and improvement  
14 for benchmarking, also integrate through the  
15 performance plan but also the development and also  
16 the implementation of plans and programs. Some of  
17 these objectives are carryovers from this current  
18 fiscal year, whether it is setting targets that we  
19 established this year that we want to improve for  
20 FY18 or the projects that we want to continue  
21 implementing in the next phase.

22           I will cover just a few of these  
23 objectives, some of the key objectives in each of  
24 these goal areas. Looking at the water supply  
25 operations goal, you will see there are several

1 objectives related to operation improvement. They  
2 deal with planned maintenance activities and this is  
3 to improve or enhance or plan maintenance so that we  
4 reduce corrective maintenance over time which is  
5 more costly and also to reduce those catastrophic  
6 failures that we might see at our facilities or  
7 water rights.

8           As you saw in the video and as David  
9 Morris mentioned, this governing Board adopted the  
10 water 2120 last fall, and in FY18 we plan on  
11 beginning the implementation of that plan. We also  
12 began operation of the large scale aquifers and  
13 storage recovery project which is also located at  
14 the surface water plant.

15           In the wastewater collection operations  
16 goal, you will see other -- many operation  
17 objectives related to planned maintenance activities  
18 as well. This is dealing with our collection system  
19 and our wastewater treatment plant. Specifically at  
20 our wastewater treatment plant we have, as in the  
21 past, to continue implementation of our asset  
22 management plan, to continue the major  
23 rehabilitation and replacement of critical  
24 facilities at that plant.

25           In the customer service goal, as I have

1 mentioned, we have targets that we want to achieve.  
2 We set up those targets in this current fiscal year  
3 and we plan to continue to achieve certain targets  
4 at our call center operations.

5 We are going to be implementing Project  
6 Roundup to assist families who are having difficulty  
7 paying their bills which allow customers to safely  
8 round up their utility bill to the nearest dollar  
9 which will go towards these families.

10 We will continue with our customer  
11 conversation meetings that focus on important topics  
12 and issues that the utility is facing. But in  
13 addition to these meetings, we will conduct  
14 additional outreach meetings, site tours and  
15 activities that engage and educate our legislators  
16 and neighborhoods about services, policies or  
17 critical infrastructure projects in those areas.

18 We will implement Phase 5 of the automated  
19 meter infrastructure project to replace those old  
20 meters with smart meters. I think the target at the  
21 end of the year is to have 50 percent of our meters  
22 on AMI. This will help the utility be more  
23 efficient but also help our customers be more  
24 effective in their water use.

25 In the business planning and management

1 goal we have several objectives related around asset  
2 management.

3           You can see our CIP target where we want  
4 to spend on the renewal projects and this governing  
5 Board adopted in 2011 the Comprehensive Asset  
6 Management Plan we update that plan in FY18.

7           We will finalize our odor control measures  
8 at the wastewater plant and do some sidewalk  
9 improvements in landscaping as well along Second  
10 Street.

11           We will also conduct a water supply charge  
12 evaluation looking at different methodology for this  
13 charge. A few more objectives in this goal area  
14 include infra -- information technology systems.  
15 This is our billing system, work order system, where  
16 upgrading them to help us to be more efficient in  
17 our operations but also want to get more mobile  
18 technology into the hands of our employees so they  
19 can have the information at their fingertips to make  
20 better decision-making.

21           In 2011 we completed a pharmaceuticals and  
22 personal care studies project study. We will update  
23 this in FY18 and we have some targets around  
24 compliance ordinance as well. And in the last goal  
25 area is organizational development. We are going to

1 maintain the 5 percent vacancy rate to ensure that  
2 we have all of those employees working on these  
3 objectives but also reduce our injury hours. In  
4 fact, over the last ten years we have seen a  
5 90 percent reduction in injury hours.

6 In 2015 we conducted our first ever  
7 employee engagement and satisfaction survey where we  
8 learn from the employees' point of view how we are  
9 doing at many of our areas but also give suggestions  
10 on areas of improvement. And over the last couple  
11 of years we have been working on those areas of  
12 improvement and will be conducting the second survey  
13 this fall to see where, if we make improvements into  
14 those areas.

15 And lastly we will continue to update our  
16 knowledge management strategy to make sure that we  
17 transfer knowledge from those employees who are  
18 retiring to those who will succeed them.

19 Any questions?

20 CHAIRWOMAN PENA: Thank you. Any  
21 questions? Commissioner Hart Stebbins.

22 COMMISSIONER HART STEBBINS: Thank you,  
23 Madam Chair. So I understand that there have been  
24 some additions made that might answer some of the  
25 questions that were raised during the legislative

1 session this year about outreach, better work on the  
2 odor control in the South Valley, so I saw those two  
3 in here. I understood there was also going to be  
4 something about funding, that is putting together a  
5 funding plan for the areas of the Valley that have  
6 not yet been served by the Valley Utilities Project.  
7 Is that here?

8 MR. ROTH: Correct. That is what we call  
9 the Los Padillas water system which is the South  
10 Valley drinking water project A7B, I think is the  
11 official name. We are going to try to coordinate  
12 and obtain some funding to complete that last  
13 segment of the South Valley drinking water project  
14 in terms of that portion of the South Valley down to  
15 where I-25 loops down and heads into the  
16 reservation.

17 COMMISSIONER HART STEBBINS: All right.  
18 So those have been added to the short-term,  
19 long-term goals?

20 MR. ROTH: Correct.

21 COMMISSIONER HART STEBBINS: And then in  
22 approving these, what entities had a chance to look  
23 at this Water Protection Advisory Board, TCAC,  
24 who -- any of our advisory boards have the  
25 opportunity to review this?

1                   MR. ROTH: Yes. At the last Technical  
2 Customer Advisory meeting they looked at these  
3 objectives. They looked at a draft as we were still  
4 developing at the time, but for the most part will  
5 be presented at the Advisory Committee is very  
6 similar here.

7                   COMMISSIONER HART STEBBINS: Was there any  
8 feedback from TCAC on these?

9                   MR. ROTH: They were just very impressed  
10 with our work and making progress, especially in the  
11 planned maintenance. I hear that from -- not only  
12 from our advisory members but members of the public.  
13 They really understand the concept of planned  
14 maintenance and really improving reliabilities is  
15 the key topic that comes down, those types of  
16 discussions.

17                  COMMISSIONER HART STEBBINS: Thank you.  
18 Thank you, Madam Chair.

19                  CHAIRWOMAN PENA: Thank you, Commissioner.  
20 Thank you, Mr. Roth.

21                  The next item we have is Item B, R-17-6,  
22 Authorizing an agreement for water and sewer service  
23 with Buglo Properties, LLC, for Paradise View  
24 Universal Apartments. Chris Cadena.

25                  MR. CADENA: Madam Chair, Members of the

1 Board, I would like to make an introduction for  
2 development agreement entitled The Paradise  
3 Universal Apartments. Essentially a 12-unit  
4 apartment complex located east of Unser just on the  
5 south side of Pueblo Avenue. The reason we are  
6 coming for a development agreement is because it is  
7 located outside of the adopted service area but  
8 within the City of Albuquerque. The developer will  
9 be responsible for extending public water, public  
10 sanitary sewer as well as paying utility expansion  
11 charges and the water supply charges as well.

12 CHAIRWOMAN PENA: Thank you. Any  
13 questions?

14 Okay. Thank you. The next item we have  
15 Item C, R-17-7, Approving an amendment to the  
16 adopted operating budget of the Water Authority for  
17 the fiscal year ending June 30, 2017. Stan Alarid.

18 MR. ALARID: Madam Chair, Members of the  
19 Board. Jeff, was the first reading for amendment to  
20 the operating budget. It is a \$1.5 million of the  
21 increased chemicals, 900,000 is for odor control  
22 throughout our system, and the other 600,000 is for  
23 treatment at our water treatment plan.

24 There is sufficient revenues in this  
25 year's operating budget to cover that additional

1     incorporation. We just need enough as we continue  
2     to wrap up the water treatment plant and try to  
3     control the odors across the City to get to that  
4     level. I stand for any questions.

5             CHAIRWOMAN PENA: Any questions? I just  
6     have one, Stan. With the reconstruction and  
7     realignment over there off of Central and Yucca, are  
8     we expected to have some significant reductions? I  
9     know you're still going to have to use chemicals,  
10    are we going to have any significant reduction in  
11    chemicals?

12            MR. ALARID: Madam Chair, Members of the  
13    Board, I am not an engineer in charge of that, but  
14    there will be significant reductions in the odors in  
15    that area. There will be significant reductions in  
16    chemicals in that area as well. I also say with  
17    this resolution is that this will be enough  
18    sufficient appropriation to carry until fiscal year  
19    2018 without us requesting additional appropriations  
20    for chemicals in the next fiscal year budget.

21            CHAIRWOMAN PENA: Great. Thank you, Stan  
22    and stick around. Item D, R-17-8, Approving an  
23    amendment to the approved capital implementation  
24    program Water Authority for fiscal year ending  
25    June 30, 2017.

1                   MR. ALARID: Madam Chair, Members of the  
2 Board, this is an amendment to our capital program  
3 to appropriate an additional \$5 million primarily  
4 for the ASR project. Funding for that project  
5 was -- came from a State grant/loan and an  
6 additional bond borrowing that closed in January.  
7 This allows us to go ahead and go into contract work  
8 with the vendor and start this project. It gives us  
9 authority to spend for this project. And then there  
10 is also additional monies that -- to complete the  
11 maximals upgrade. Maximals are work order system  
12 for all our assets. It is going to assist us in  
13 further developing and defining our asset management  
14 program in the future, and then we had some -- it  
15 allows us to also incorporation for some critical  
16 equipment that is needed at the water quality lab  
17 that we needed to replace.

18                   I stand for any questions.

19                   CHAIRWOMAN PENA: Thank you, Stan. Any  
20 questions? Commissioner Hart Stebbins.

21                   COMMISSIONER HART STEBBINS: So if I  
22 understood you correctly this is money that was not  
23 anticipated that has been added to the capital  
24 budget?

25                   MR. ALARID: Madam Chair, Commissioner

1 Hart Stebbins and Members of the Board, it is an  
2 additional appropriation. So we didn't have an  
3 appropriation, so we don't have authority to spend  
4 the money on this project. So what we are asking  
5 for is an appropriation to begin this project. It  
6 was not appropriated in the FY17 original budget. I  
7 didn't think at that point in time we knew it was  
8 going to continue and how much the ASR project would  
9 cost for the large scale. We did find funding to do  
10 that project, so as we got the funding we now have  
11 come to the Board to appropriate to allow us to  
12 spend to complete this project.

13 COMMISSIONER HART STEBBINS: Was it in the  
14 capital plan?

15 MR. ALARID: Madam Chair, Members of the  
16 Board, it was not in the original capital plan. It  
17 was a project that came to us that we based on 2010,  
18 the water strategy was one of those things that we  
19 wanted to kind of complete and move forward with.

20 COMMISSIONER HART STEBBINS: So I guess my  
21 question is, if it wasn't in the existing plan is  
22 there going to be something that is delayed because  
23 of this spending, anything that was prioritized and  
24 we have a plan.

25 MR. ALARID: Madam Chair, Members of the

1 Board, this is an additional appropriation. There  
2 will be no deferments or anything of any other  
3 projects in the capital plan. This is just in  
4 addition to the plan. We have found additional  
5 funding to fund that plan.

6 COMMISSIONER HART STEBBINS: All right.  
7 Thank you. Thank you, Madam Chair.

8 CHAIRWOMAN PENA: The next item we have  
9 the Consent Agenda. There are three items I can  
10 read them all, but if not, if you have had the  
11 opportunity they are in your packets, I would ask  
12 for a motion.

13 COMMISSIONER HART STEBBINS: I move  
14 approval.

15 COMMISSIONER JOHNSON: Second.

16 CHAIRWOMAN PENA: We have a motion and a  
17 second. I will -- all those in favor say yes.

18 ALL MEMBERS: Yes.

19 CHAIRWOMAN PENA: Opposed, no.

20 Motion passes.

21 (5/0 Vote. Agenda Item 8 approved.

22 Commissioner Debbie O'Malley, Councilor Pat Davis  
23 and Mr. Rob Perry were not present for vote.)

24 CHAIRWOMAN PENA: The next item is  
25 Approvals. So we have Item A, R-17-4, authorizing a

1 Memorandum of Agreement for watershed management  
2 with a major conservancy Katherine Yuhas and Laura  
3 McCarthy. Thank you.

4 MS. McCARTHY: Madam Chair, and Members of  
5 the Board, I am Laura McCarthy. You have met me in  
6 the video, so I will just go ahead and dive right  
7 in.

8 Beginning with the 2120 plan and focusing  
9 in on watershed management in particular, which we  
10 consider to be an insurance policy for the places  
11 that are our water sources. And at the bottom of  
12 this slide you can see Policy J which is in the 2120  
13 plan and what I will be talking about is the context  
14 for why that policy is needed.

15 It is key to remember that protecting and  
16 restoring the watersheds of the San Juan-Chama and  
17 the Rio Grande has roots back in the things that  
18 happen on the land starting with fire and this, of  
19 course, is the Las Conchas fire on the day that it  
20 burned 43,000 acres in 14 hours.

21 So that is the threat. This is what it  
22 left behind, and the problem was when it rained just  
23 average size rainstorms on this burned area we ended  
24 up with massive debris flows in multiple watersheds  
25 and the bottom image there on the right showing a

1 sediment plug at the confluence of Cochiti Canyon  
2 and Land Canyon with the Rio Grande that is 70 feet  
3 of sediment that moved downstream in -- after two  
4 afternoons of rain. Cochiti reservoir the next day  
5 and it is not just a onetime problem. This photo  
6 was taken in Peralta Canyon three years after the  
7 fire, so the sediment keeps moving.

8           We don't want that to happen in our San  
9 Juan-Chama watersheds and in the upper Rio Grande in  
10 the places that are most important from a water  
11 source protection perspective.

12           And in 2012 before the plan was -- the  
13 2120 plan was created we formed the Rio Grande Water  
14 Fund first as a concept to bring people together  
15 both from the upstream headwaters and the downstream  
16 water users of all sorts to work together to restore  
17 the headwater forests at a significant scale, at the  
18 size of impact that could actually make a difference  
19 in the case of another Las Conchas fire.

20           We have been overwhelmed by the interest  
21 in this collaborative solution. We formed a  
22 charter, we now have 57, 58 signatories. They keep  
23 getting added, two that are not shown here that  
24 might be of interest are the Bureau of Reclamation  
25 and the Trust for Public Lands. You can see just

1     incredible diversity of types of organizations and  
2     agencies that want to be part of a collective  
3     solution.

4             Starting last year we did a deep dive  
5     science analytical project looking at the Blanco and  
6     Navajo basins, the San Juan-Chama project basins and  
7     this was also collaborative with a number of  
8     partners. We looked at susceptibility to fires and  
9     human values at risk with water supply being the key  
10    value. And having now done this analysis, we have a  
11    proposal for actual restoration treatments in fiscal  
12    year 2018 and you can see them shown on this map.  
13    They are all in high priority locations.

14            This set of projects are all on private  
15    lands. And if you will look at where it says Rio  
16    Blanco and there are four circles, there is a lot of  
17    Forest Service land around that and they are  
18    actively working now on their NEPA clearances so  
19    that in 2019 we will also be able to restore the  
20    watershed across all boundaries not just private  
21    lands but also on to the public lands.

22            In this chart you can see where we have  
23    framed out the specific places for investment and  
24    the funding amount, the amount of funding that would  
25    be leveraged, the project management and monitoring

1 costs, and there is a total that is bigger than we  
2 would expect the Water Authority to pitch in and, in  
3 fact, the -- this exact same package of treatments  
4 has been shared with the Middle Rio Grande  
5 Conservancy District, which is also going through a  
6 process similar to yours and considered looking at  
7 including funding in their FY18 budget.

8 So, with that I think I will turn it to  
9 Katherine.

10 MS. YUHAS: Madam Chair, Members of the  
11 Board, first I would like to thank the Nature  
12 Conservancy for bringing together such a diverse  
13 group of partners to create the Rio Grande Water  
14 Fund and do the good science that is backing up the  
15 need for these incredibly important projects.

16 The Memorandum of Agreement before you  
17 tonight commits the Water Authority to providing  
18 \$200,000 to the Rio Grande Water Fund each year for  
19 the next five years. We will have a seat on the  
20 executive board and be a part of making decisions on  
21 how these funds are spent.

22 And also I would like to offer to you that  
23 if any of you are interested in going on a field  
24 trip to see some of these projects on the ground,  
25 Laura and I would be happy to make those

1 arrangements. And with that we will both stand for  
2 any questions that you have.

3 CHAIRWOMAN PENA: Councilor Jones.

4 COUNCILOR JONES: Thank you, Madam Chair.  
5 I want to thank you for doing this. This is a very,  
6 very important project, and I can speak to that from  
7 personal experience. My husband and I used to own a  
8 cabin in Las Conchas Canyon and it was devastating,  
9 devastating to see what happens. Luckily no human  
10 life was lost, but it is a beautiful -- was a  
11 beautiful part of our state, both private and public  
12 lands that are devastated. I have pictures if  
13 anybody would like to see what it looked like a week  
14 afterwards. It is an unbelievably amazingly strong  
15 act of nature what this can do.

16 So thank you for some thought in trying to  
17 prevent this happening in other communities. Thank  
18 you very much.

19 CHAIRWOMAN PENA: Commissioner Hart  
20 Stebbins.

21 COMMISSIONER HART STEBBINS: Thank you,  
22 Madam Chair. Laura, I just want to thank you for  
23 all the work you have put into this. I know it is a  
24 multiyear -- I don't know when it was that you  
25 started, I know it's been several years since you

1 and I talked about this and I think it is just  
2 monumental that you have been able to bring together  
3 all of these different partners, all parts of our  
4 community. So, thank you for that.

5 I have to -- this is amazingly exciting.  
6 I think when you and I first met it seemed like a  
7 long way off. So, again, I just want to thank you  
8 for your work. I want to thank our Water Authority  
9 staff for looking into this and recognizing its  
10 importance, putting it in the hundred-year water  
11 plan. And, again, I thought this was something that  
12 I wasn't sure that I would ever see that the Water  
13 Authority would make this investment. So thanks to  
14 all of you.

15 CHAIRWOMAN PENA: Thank you. With that I  
16 will make a motion to accept -- to approve R-17-4.

17 COMMISSIONER HART STEBBINS: Second.

18 CHAIRWOMAN PENA: Motion and a second.  
19 All those in favor say yes.

20 ALL MEMBERS: Yes.

21 CHAIRWOMAN PENA: Opposed, no.

22 Motion passes.

23 (5/0 Vote. Agenda Item 9A approved.

24 Commissioner Debbie O'Malley, Councilor Pat Davis  
25 and Mr. Rob Perry were not present for vote.)

1                   CHAIRWOMAN PENA: Next item we have is  
2   Item B, C-17-4, FY2017 second quarter performance  
3   indicator report. Mr. Frank Roth.

4                   MR. ROTH: Madam Chair, Members of the  
5   Board, in front of you is a snapshot of the  
6   utility's performance. These are categories of  
7   stakeholder interest so that they can easily gauge  
8   the utility's performance in these key areas.

9                   These indicators, as I've mentioned  
10   earlier, are developed through the benchmarking and  
11   performance assessments, linked to the performance  
12   plan, our surveys, affected utility management.  
13   These indicators represent a fiscal year to date  
14   through the second quarter. You will see that of  
15   the 23 indicators, 14 are on target and nine of the  
16   23 are still a work in progress, but at this point  
17   none of our targets are not at risk of being not  
18   met. I will answer any questions.

19                  CHAIRWOMAN PENA: No questions. Thank  
20   you, Mr. Roth.

21                  So next item -- we have to approve that.  
22   I make a motion to accept C-17-4. Is there --

23                  COMMISSIONER JOHNSON: Second.

24                  CHAIRWOMAN PENA: All those in favor say  
25   yes.

1 ALL MEMBERS: Yes.

2 CHAIRWOMAN PENA: Opposed, no.

3 Motion passes.

4 (5/0 Vote. Agenda Item 9B approved.

5 Commissioner Debbie O'Malley, Councilor Pat Davis  
6 and Mr. Rob Perry not present for vote.)

7 CHAIRWOMAN PENA: Next item we have is  
8 C-17-7, FY2017 second quarter operating financial  
9 reports. Mr. Stan Alarid. It is scary when I am  
10 reading an agenda item and by the time I look up the  
11 person is standing there.

12 MR. ALARID: Madam Chairman, Members of  
13 the Board, before you is the second quarter  
14 financials. It is basically a quick snapshot of our  
15 dashboard. Revenues through the second quarter are  
16 about \$3.31 million above the same level as last  
17 year. Consumption has basically -- had increased  
18 during that quarter. That is being indicated by the  
19 third quarter as consumption is beginning to  
20 decrease a little bit, revenues are coming back more  
21 in line with FY16 levels.

22 Expenditures are below appropriate levels.  
23 And we just ask for additional appropriation for  
24 chemicals to make sure that we end the fiscal year  
25 in that fashion.

1           CIP spending, all those amounts that have  
2   been appropriated either have cash spent against  
3   those or we have had an encumbrance or a commitment  
4   for cash for those projections, so 94 percent of  
5   those projects as of 12/31 have some cash commitment  
6   to those projects.

7           Consumption continues to be consistent  
8   with the last two prior years. Our debt coverage  
9   ratio still are above 2.0 through the second  
10  quarter.

11           Again, our covenant is 1.33 for senior and  
12  1.20 for senior support, so it is well above that.  
13  Our cash on hand through the second quarter was  
14  approximately 280 days. We ended fiscal year 2016  
15  at about 340 days. I anticipate that balance to be  
16  a little bit higher through the third quarter.

17           And I stand for any questions.

18           CHAIRWOMAN PENA: We went over this in the  
19  meeting we had the other day, so I don't have any  
20  questions. So with that I make a motion to approve  
21  C-17-7.

22           COMMISSIONER HART STEBBINS: Second.

23           CHAIRWOMAN PENA: There is a motion and a  
24  second. All those in favor say yes.

25           ALL MEMBERS: Yes.

1 CHAIRWOMAN PENA: Opposed, no.

2 Motion passes.

3 (5/0 Vote. Agenda Item 9C approved.

4 Commissioner Debbie O'Malley, Councilor Pat Davis  
5 and Mr. Rob Perry not present for vote.)

6 CHAIRWOMAN PENA: Item 10, Other Business,  
7 Item A, OB-17-2, status update for the Kirtland Air  
8 Force Base bulk fuels facility fuel leak corrective  
9 action activities. Diane Agnew of New Mexico Ed and  
10 Kate Lynnes of the U.S. Air Force.

11 MS. LYNNES: Good evening. I am Kate  
12 Lynnes. I am the senior advisor for the Air Force  
13 on the bulk fuels facility cleanup at Kirtland, and  
14 this is Diane Agnew, she is a hydrologist for the  
15 Groundwater Quality Bureau and the technical lead  
16 for the New Mexico Environment Department.

17 We would like to share with you some good  
18 news about the cleanup at Kirtland and just kind of  
19 bring you up to speed on what we told you last year  
20 about this time.

21 The partnership success slide. We show  
22 this in every presentation we do. And it never gets  
23 old for us because I have been doing this for 34  
24 years now and I have never seen such a group of  
25 diverse technical experts, local units of

1 government, federal government agencies, state  
2 government agencies, community members, you know,  
3 local academic leaders all come together to solve a  
4 problem.

5           And they don't do it to sit there and  
6 pontificate or to get published in some journal,  
7 they do it to get things done. And in this era  
8 where every time you pick up a newspaper everybody  
9 is always fighting with each other, I think it is  
10 really nice to see that we can all get together and  
11 fix something when we put our minds to it.

12           I am going to actually talk a little bit  
13 about the State strategic plan to share some of the  
14 progress we made and then Diane will talk about last  
15 year, or 2016, and Diane will bring you up to speed  
16 in 2017.

17           You will probably recall from Diane and  
18 Dennis McClellan's presentation to you last year  
19 that the State does a strategic plan every year that  
20 they then put out for comment to the public. It is  
21 not a regulatory document. The thing that drives  
22 our cleanup is our Resource Conservation Recovery  
23 Act permit, but the strategic plan is a roadmap of  
24 what the State's expectations for the Air Force are.  
25 And it is -- in fact, if you have someone who is new

1 to bulk fuels and you want a really good way to  
2 introduce them to what we are doing, send them to  
3 the State's website to the strategic plan. I do  
4 that with a lot of folks myself. There is one major  
5 goal in this strategic plan and that is to protect  
6 our community's aquifer and drinking water supply  
7 and all the wells in the area of the fueling.

8           There is four strategies to achieve that  
9 goal. And one is something I am sure you are all  
10 familiar with, is the robust site monitoring, the  
11 well monitoring, wellhead protection program. As  
12 you know, we monitor all drinking water wells that  
13 are part of community water supply systems whether  
14 it is, you know, part of the Bernalillo County Water  
15 Authority, whether it is the Veterans Administration  
16 Hospital wells or our wells on base.

17           And then we also -- the second strategy to  
18 achieve the goal is to figure out is going on in  
19 this source area and continue to find ways to clean  
20 it up. We have light nonaqueous phase, liquid,  
21 which is basically LNAPL, it is fuel, it is fuel  
22 that is lighter than water and it impacted soil and  
23 vapors and it feeds the plume. So there is  
24 groundwater contamination there, too. What we are  
25 all most familiar with is the fourth strategy to

1 achieve the goal which is to get the ethylene  
2 dibromide flow that has left the base and has gone  
3 under the neighborhoods cleaned up.

4 And last but not least, fourth strategy is  
5 to meet or exceed all the requirements in our permit  
6 for public outreach. We have done how many now, so  
7 we go to the next one and show you where we are at.

8 So Strategy 1, the monitoring, okay, to  
9 achieve the goal. We have now demonstrated that the  
10 plume is stable. And it is relatively stable and as  
11 you will find out a little bit later, the  
12 investigation is how we pretty much have the nature  
13 and extent of it defined. The central wells which  
14 are guardian wells that are between the  
15 contamination plume and the community water supply  
16 well have shown no detections of fuel constituents.  
17 And in addition the monthly testing of all the  
18 wells, whether it is for Water Authority, whether it  
19 is for the VA or whether it is on base have shown no  
20 detections of fuel constituents.

21 The highlights of meeting the second goal  
22 which is addressing contamination and source area  
23 include the work plan approval of the LNAPL interim  
24 measures. We have got three different pilots going  
25 on this year and it is kind of the year of the

1 source area while we continue to do a cleanup of the  
2 groundwater we are focusing attention with a lot of  
3 really cool science in cleaning up the source area.  
4 And that is what part of those working groups  
5 discussions led to, that is the second highlight of  
6 meeting this goal.

7           And then the third strategy that  
8 highlights and this is where Diane gets to really  
9 give you the big reveal tonight is, you know, the  
10 treated groundwater from our treatment plant shows  
11 no detections of fuel constituents. If we  
12 chlorinated it, you can drink it. In fact, one of  
13 the things we are looking at now in addition to  
14 other options is making it drinking water on base.  
15 Expanded ground and treatment system is we don't  
16 have just two big 20,000-pound vessels of gas down  
17 granulated we have four. We are also adding a sand  
18 filter so we have expanded our plant so it will be  
19 able to address if we need the up to eight  
20 extraction wells that my boss, Deputy Secretary  
21 Corel promised this community, we can treat it, we  
22 have capacity.

23           We have had two or three extraction wells  
24 operational through 2016 and as you will soon find  
25 out, we have another one.

1                   And then last but not least we go anywhere  
2 anyone asks us to go. We are like the road show.  
3 If you have a community group that is interested in  
4 getting an update or has questions about what is  
5 going on with this cleanup, call us, let us know.  
6 We will go. We have done 51 tours of the treatment  
7 plant since it has opened. We do everything from  
8 the standard, we do the public meeting and people  
9 stand up and ask questions to technical working  
10 group deep dives where people come to the Christ  
11 United Methodist Church on a Saturday morning and  
12 asked detail questions about the RCRA facility  
13 investigation report and how remediation works and  
14 what is going on in the source area. So if you know  
15 of somebody who wants an update, please come see us.

16                   We have also been doing a little bit of  
17 work in the neighborhood. We are no longer out  
18 there with a zillion drill rigs driving wing nuts.  
19 As we explained you to last year, we almost had the  
20 plume defined and we are going to put in a couple  
21 more monitoring wells nests. You can see on the map  
22 we did that last year. We put in two well nests in  
23 the corner of the plume that wasn't quite defined.  
24 And these two date gap wells, we are hoping and the  
25 initial data from them show was not detected. We

1 are hoping that we have defined that edge of the  
2 plume. We have to get multiple quarters of data to  
3 prove that, but we think we put them in the right  
4 spot. We think we have it nailed. And these wells  
5 are cool because they are a different design. When  
6 we go out and drill individual wells at different  
7 depths, keep in mind, our monitoring wells are at  
8 different depths because we want to catch where the  
9 plume is, we want to be a little bit below that, we  
10 want to make sure that part of the aquifer where  
11 water is taken out is protected. Well, if you drill  
12 individual wells for this, you are driving your  
13 neighbors nuts, and it costs more. So what we are  
14 doing now is we are doing it in one boring. We are  
15 putting multiple wells within that single boring  
16 which is a much less expensive. It is accepted. It  
17 is used all over but it is the first time we have  
18 done it on BFF. It really reduces the impact to the  
19 neighborhoods and they have been so remarkably  
20 patient with us and we do everything we can to make  
21 there lives better.

22           We also put a contingency well in here to  
23 address the fact that due to all the wonderful  
24 contributions from this community, the water table  
25 is rising and we want to make sure we have the

1 contingency well within that well nest to be able to  
2 sample that when our water table continues to rise  
3 because of all the good work that this community is  
4 doing. And as I have mentioned the first sample we  
5 collected in January from these two new well nests  
6 is non-detect. So we are keeping our fingers  
7 crossed it is going to stay that way and we have the  
8 plume defined.

9 MS. AGNEW: Madam Chair, Members of the  
10 Board, thank you for the opportunity to present to  
11 you tonight. I do want to pass along the apologies  
12 from Deputy Secretary. He thought he could be here  
13 tonight and then got called into meetings in  
14 Santa Fe, so he does send his apologies.

15 I am always given the fortunate slides of  
16 the good news of the pump and treat system, and I am  
17 going to take that as one of the main perks of being  
18 a hydrologist. A plume class this size should be  
19 getting more and more familiar. There are a couple  
20 of things I want to highlight. This is showing you  
21 the extent of the EDB plume based on fourth quarter  
22 2016 data. So you can see it looks quite a bit  
23 different than what you have seen us present to you  
24 before.

25 The other thing I would like highlight on

1 here are these purple wells. These are what we call  
2 the central wells as Kate just mentioned. Those are  
3 sampled quarterly. Those are our guard wells that  
4 we use for early indications of the EDB plume  
5 moving. We have got four extraction wells  
6 highlighted on here. The first well Extraction 228  
7 was one that went up first in June of 2015, and then  
8 the other two wells went online in 2016. The 233 is  
9 this box that has got the inset on here that we did  
10 take it off in June of 2016 due to fouling.

11 So the treatment system when it began  
12 operation, the pretreatment bag filters were  
13 switched out on the order of months. They could go  
14 three or four months without changing them and then  
15 all of a sudden they were having to change them  
16 weekly and daily and then it was hourly. At that  
17 point the Air Force called me and said we have got  
18 an issue and we decided to shut down the system and  
19 troubleshoot it.

20 We were able to -- and this is one of the  
21 places I want to give the Air Force credit. They  
22 pulled in a center of expertise with the Army Corps.  
23 These are microbiologists and chemical engineers who  
24 do this for a living and they sample the aquifer,  
25 they sample the bag filters, they did an extensive

1 evaluation of the monitoring wells. I would like to  
2 call it a census survey for bugs, and they were able  
3 to determine that this well was actually being  
4 fouled by both aquifer material and microorganisms.  
5 And so, that well remains off, we did identify the  
6 need to rehabilitate that well and it is kind of it  
7 sounds like we are currently treating it with  
8 chemicals to scrub out the microorganisms. It is  
9 also being scrubbed mechanically to screen out the  
10 screen to bring it back into action. So that work  
11 is ongoing it is a total five to six weeks to  
12 complete the work. It started in late February but  
13 it seems to be on track to come back online in early  
14 summer.

15           To date this actually -- this number is a  
16 week old, so to date we have treated  
17 157 million gallons of groundwater, and I forgot to  
18 look at the update of EDB grounds, but if I was  
19 guessing it is probably 48.6 grams of EDB removed.

20           This again, this seems like a very small  
21 grams of EDB removed for the volume of water that we  
22 have treated, but to remind the Board as we have  
23 mentioned last time the concentrations in this part  
24 of the plume are pretty low. The average  
25 concentration is .1 micrograms per liter. The EPA

1 and CL .05 micrograms per liter, so it's just a  
2 little bit above that limit. And, a -- that's  
3 equivalent to like a tenth of a teaspoon in an  
4 Olympic size swimming pool. So it is a very small  
5 amount of EDB in a large volume of water. If we  
6 have a tenth of a teaspoon of EDB in an Olympic size  
7 swimming pool, we have to pull that whole swimming  
8 pool out before we could get to that tenth of a  
9 teaspoon. So that is what we are doing out here.  
10 It is effective, as I will show you here in the next  
11 couple of slides.

12           The Air Force did complete a fourth  
13 extraction well that was completed in January of  
14 2017. They are almost complete with their design of  
15 a conveyance pipeline to connect that to the  
16 treatment system. That will undergo in EDB review  
17 and approval and the City of Albuquerque review and  
18 approval and hopefully come online in the summer.

19           Plume capture update, the EPA sets forth  
20 guidance as industry standard for how to evaluate  
21 plume catch in pump and treat systems. And the EPA  
22 guidance indicates suggested have multiple lines.  
23 So I am going to show two ways of looking at this,  
24 but there is actually a much more complex analysis  
25 that the Air Force has completed. But for time sake

1 and also just to not completely kick you out, we  
2 have picked the two that have good visuals and are  
3 easy to visualize.

4           The first way to look at it is what they  
5 call horizontal capture. This is just looking at  
6 the changes in the water table over time and to  
7 figure out which way the water is moving and then  
8 use that to estimate capture. So this is a really  
9 busy slide, but as I would like to pull your  
10 attention to are these purple lines. These purple  
11 lines are flow paths, how the water is moving and if  
12 you can really zoom in on your iPads you can see  
13 that there is little arrows on those purple lines.

14           The northernmost dot, that is Extraction  
15 234, that is the well that came in line on  
16 December 31, 2015. You can see that there are  
17 several purple lines moving to the well and that is  
18 what I like to see as a hydrologist, you can see  
19 there is water moving into that well. You can see  
20 that there is a color coding on that little knob of  
21 EDB. And the green means complete capture, yellow  
22 green means partial capture and orange means no  
23 capture. You can see in that northernmost nodule of  
24 EDB we are capturing almost all of the EDB. In  
25 fact, 50 percent of it is getting captured in the

1 horizontal component.

2           There is this little wedge of orange that  
3 is not getting captured but none of this is actually  
4 concerning to me in the bigger picture of things  
5 because our extension wells remain non-detect of  
6 EBD. So I don't see the EDB moving even though it  
7 is not being captured by these extraction wells. It  
8 just means this is a piece of information we need to  
9 be considering as we proceed with the pump and treat  
10 system.

11           233, 50 percent capture because it is off  
12 line and 228 is showing 42 percent of the EDB plume  
13 is captured. You can see the entire nodule of EDB  
14 is created meaning it has got 100 percent capture  
15 and the horizontal scale. So when you put all of  
16 those together we are getting 99.5 percent of EDB is  
17 being captured on the horizontal plane and that  
18 means that all of the EDBs being fed into these  
19 extraction wells and we -- this is a success story.

20           233 when we get that back online the  
21 technical team is optimistic we will get to that  
22 wedge of orange. It may not, but that is something  
23 we won't know until that well is online and operates  
24 for a couple of quarters.

25           Another way to look at it is looking at

1 concentration trends or massive EDB. So this slide  
2 is showing you how we looked up plume reduction  
3 analysis. It is a little bit -- it is another  
4 really busy slide, but if you can -- but the very  
5 top of this box is the ground surface, so that  
6 dashed line is the water table. So you can see this  
7 is the EDB plume and to the left of the cross  
8 section there is an orange and red color of EDB,  
9 those are your high concentration areas in the  
10 source area. And as you move to the right of the  
11 slide and that top portion you can see where you  
12 have your first extraction well with the red dot and  
13 then the northernmost extraction well with the other  
14 red dot.

15           What we like to see is the pump and treat  
16 system is operating the way it should be is that we  
17 should see mass increasing at the extraction wells  
18 and then we should eventually see plume mass  
19 reduction over time. So this top cross section is  
20 from Q2 in 2016, and if you will look at the bottom  
21 of the slide you will see Q4 of 2016. And those  
22 circles are highlighting with key components, a  
23 take-home of the slide. The there is an increase of  
24 mass from Extraction Well 228 so again, that is  
25 exactly what you would want to see that that well is

1 pulling in mass. And then you can see that there is  
2 also a little bit of an increase of plume mass  
3 around the northernmost Extraction Well 234. And  
4 you can see there is a decrease in concentrations of  
5 EDB in source area and most notably a break in the  
6 EDB plume in the north. That is the first time we  
7 have seen that in this project.

8           The treatment system expansion as Kate  
9 mentioned they have expanded to 800 gallons per  
10 minute capacity. They have added the two new  
11 granulated activated carbon beds. Those will  
12 actually work in series or in parallel so you can  
13 run them through two different treatment trains at  
14 the same time. We also are showing in here two  
15 lessons learned. One of them on the left that  
16 sacrificial anode. We had 228 go down for a certain  
17 number of weeks because the pump corrupted. We have  
18 seen corrosion of pumps all through the plume  
19 actually for sampling. And there is something  
20 unique about the geochemistry that is in the plume  
21 as we pump on it. Part of us think that we are just  
22 adding so much oxygen in the water as we pump and  
23 move water that we are changing the chemistry enough  
24 that our pumps are corroding. But it is easy to  
25 address with operational things you can do. One of

1 those is installing a sacrificial anode and that is  
2 exactly what it sounds like. That strip of metal is  
3 being sacrificed. It will get corroded and it will  
4 preserve our pump.

5           The other thing the Air Force is doing is  
6 sand filters that Kate mentioned. Those are going  
7 on the pretreatment side of the treatment building  
8 so that they can filter out the aquifer material and  
9 the fog is coming from 233 when it comes back  
10 online. We will rehabilitate that well and we will  
11 redevelop it, but that will not fix the problem  
12 completely, so we need these sand filters to protect  
13 the treatment system and then also give us longevity  
14 in our operations of the system.

15           What is next, as I mentioned,  
16 rehabilitation and redevelopment of Extraction  
17 Well 233 is ongoing. The pipeline, as I have  
18 mentioned, is ongoing with the Air Force. They will  
19 come to me for review and then, we will have all  
20 four extraction wells online this year. It looks to  
21 me that the schedule for that is early summer, and  
22 then we will continue this plume capture evaluation  
23 it will be done quarterly. It will be submitted for  
24 my review quarterly and there will be an ongoing  
25 dialogue to see how things are evolving to make sure

1 we are meeting the target capture zone for the  
2 project and addressing the EDB.

3           The other thing that the project -- I  
4 think we mentioned last year is that we were going  
5 to start a pilot test to look at reinjection of the  
6 treated water into the aquifer. This is of  
7 beneficial use that the project team identified. We  
8 began the pilot test last year, and the well has  
9 done remarkably well. So we used that for several  
10 weeks through temporary permission from the  
11 Groundwater Quality Bureau. The most of an increase  
12 we have seen in that well and the water level  
13 14 feet and that was when the system was  
14 inadvertently stressing the well. There was a  
15 miscommunication between the control panel and the  
16 well. And once they figured that out, they  
17 stabilized we have seen three to six feet now, which  
18 is really minimal. And actually most interestingly  
19 is that we don't see any response in the neighboring  
20 monitoring wells which means that the well and the  
21 aquifer has the capacity to handle more water.

22           So as we increased the treatment at the  
23 treatment system we should be able to handle sending  
24 more water to Kirtland 7. And with that discharge  
25 permit the Air Force has applied for an underground

1 permit to do this longterm at Kirtland 7 as well as  
2 they wrote in multiple injection wells that in case  
3 they are needed down the road.

4 That was initially submitted for 90-day  
5 public comment period in February, then based on  
6 comments received and discussions internally, we  
7 agreed, revised the district pretty significantly  
8 and we recently posted it for public comment review  
9 for another 30 days until April 3. And with that I  
10 will turn it over to Kate to update you on the RFI  
11 report.

12 MS. LYNNE: The RFI report again, you  
13 know, we love acronyms in our business. I am so  
14 excited when I can have an entire paragraph with  
15 absolutely no words in it and somebody else can read  
16 it and understand it.

17 But again it is Research Conservation  
18 Recovery Act. So that is the R. Facility  
19 Investigation Report, and what the heck is an RFI?

20 Well, it is the report a lot of you and we  
21 were waiting to get in and get done. And it is  
22 basically -- I call it a Dragnet report. It is just  
23 the facts. It summarized everything you did in the  
24 investigation and explained why you know it defined  
25 the nature and extent of the plume and the source

1 area contamination. And we submitted this at the  
2 end of January, this year, to NMED. I know Diane is  
3 reviewing it right now because she asked for a  
4 version with numbered lines, so I know she is  
5 looking at it. And it has 16 years of data with it  
6 from 1999 to the end of 2015. We had to cut it off  
7 at a point to be able to write the report. And it  
8 follows the regulatory process, the RCRA facility  
9 investigation report is -- there is a part of RCRA  
10 which normally addresses hazardous waste facilities,  
11 but operational facilities, but it also has a piece  
12 called corrective action that is what we are doing  
13 our cleanup under.

14           It is a way of outlining our report saying  
15 you have to show why you did what you did, you have  
16 to show the data, you have to interpret the data,  
17 you have to explain why you defy nature and extent.

18           It does it by media. We went back and  
19 forth a number of ways trying to figure out what is  
20 the best way to present this without being  
21 repetitive, without being confusing. We decided  
22 with the State, you know, it was concurrence to do  
23 it by media. So we talk about the soil, we talk  
24 about the vadose zone which is, as you will recall,  
25 the unsaturated soil above the water table. We

1     talked about the smears zone in the LNAPL or the  
2     source area and then we talked about the groundwater  
3     contamination in the dissolved face plume that goes  
4     off base. And this is a way of kind of going from  
5     the top down to the water table approach as you read  
6     through the report.

7             It also culminates in a conceptual site  
8     model. And a conceptual site model is not a static  
9     thing. We will continue to grow it. As you will  
10    hear in a second, we have a couple of data gaps. We  
11    learn more as we operate these new extraction wells,  
12    as we do new aquifer tests, as we look at the data  
13    and refresh the model. The conceptual site model  
14    will continue to be refined but it makes -- we have  
15    enough data now because we are at the RFI report  
16    stage to have a very robust conceptual site model  
17    that gives us a really good picture and roadmap for  
18    where we came from, what happened, how successful  
19    our interim measures are likely to be and where we  
20    need to go. And one of the -- you know, we tried  
21    very hard to write the executive summary of the RFI  
22    that is on the State's web page, it is on our web  
23    page. I can get you a hard copy if you want one.  
24    It is kind of big. There are a lot of maps and  
25    tables and figures and stuff and it is too much for

1 us to send all of that stuff by e-mail because the  
2 Air Force won't let us. We don't have big enough  
3 capacity. But what it shows you is that if you  
4 follow -- if you just look at the executive summary,  
5 we tried our best to write it in a way that was  
6 accessible to people that do this every day.

7           So if you want to get a feel for what we  
8 found in the RFI, I would encourage you to pull the  
9 executive summary and take a look at that. If you  
10 want to dive deeper and you want a hard copy, let me  
11 know and I will get you one.

12           Several key findings in the RFI. We  
13 pretty -- like I said, we pretty much defined it.  
14 We have a couple of data gaps, but particular for  
15 the dissolved -- the dissolved phase plume that is  
16 off base with the ethylene dibromide in it, we have  
17 got it pretty much nailed. We also are pretty -- we  
18 are certain that we understood where the release  
19 came from and the basically how it moved, the  
20 conceptual site model shows that we showed you  
21 before the four holes in the pipe and the vacuum  
22 pipe and how it went through the kind of circuitous  
23 tortuous layers of permeable and nonpermeable soil  
24 and moved kind of sideways and then dissolved into  
25 the groundwater. We are sure that that is how it

1 happened.

2           We do have a couple of data gaps. One is  
3 those two new monitoring well nests I talked about  
4 earlier. And the first one of the data says we have  
5 got it but we need a lot more data than that to make  
6 a conclusion. And the other is the vertical extent  
7 of the LNAPL. In the source area one of the  
8 complications of defining the nature and extent of  
9 the fuel that smeared down there is the fact that  
10 this community has been so good with water  
11 conservation. The rising water table came back up  
12 and smeared that fuel a little bit and made it a  
13 little bit more complicated down there from our  
14 perspective in how to define it. So, what are we  
15 going to do? Well, we are going to continue to  
16 collect data from the two new monitoring well nests  
17 to see if indeed our assumptions are correct and we  
18 have got it defined. We are going to do a number of  
19 cores in the source area, continuous cores down  
20 300 feet to really look at what is going on down  
21 there and figure out where those smear zones are,  
22 where things are hanging out, how things have  
23 weathered, how the chemistry has changed, what is  
24 going on so we can target interim measures and final  
25 remedies in the source area because every molecule

1 of fuel that we take out from the source area never  
2 ends up dissolved and gets to the groundwater. So  
3 we recognize how important this is.

4           We will take this additional information  
5 and we will put it in an RFI addendum that we will  
6 submit probably in 2018 and that will be the final  
7 piece of the RFI. One other thing I want to add is  
8 because we are kind of unique, a lot of sites like  
9 ours don't do what we call interim measures. But  
10 all of the things that Diane has been talking about  
11 and we talked to you before about the soil  
12 extraction system and the soil removal and the  
13 bioslurping and the groundwater treatment, those are  
14 all interim measures. The pre-final remedy. So the  
15 RFI report also does summarize the status of the  
16 interim measures at the cutoff point of the report.  
17 And we are also working on a risk assessment report,  
18 it will be submitted later this year, hopefully in  
19 early summer, and although we look at the data all  
20 the time we know there is not risk to people from  
21 this contamination. This is a document that is  
22 required by your permit and, again, it is a very  
23 formulated process. The State has guidance that  
24 tells you how to do one, we are following that and  
25 that is the document that is going to be able -- you

1 are going -- if a constituent asks you is it safe  
2 for me to plant a garden if I live above the plume,  
3 you will be able to open that up and tell them  
4 definitively yes. So that is coming soon, this  
5 year, and then I will turn it back over to Diane.

6 MS. AGNEW: So, again, the New Mexico  
7 environment posted a strategic plan or roadmap for  
8 the bulk fuels project. It was posted earlier this  
9 year for public comment and I am working on  
10 finalizing it now. We did receive comments from  
11 four different people on the strategic plan. One of  
12 the things I want to tell you is that the goal has  
13 not changed. The goal remains to keep fuel  
14 contamination from entering the drinking water  
15 supply wells of the Water Utility Authority, VA and  
16 Kirtland. One of the things that has changed is  
17 that we have gone from four strategies to three.  
18 And the reason for that is we felt like the  
19 Strategies 2 and 3 from the earlier versions really  
20 should be condensed into a single strategy to better  
21 represent the holistic data approach we're using for  
22 the remediation of the site. It is not necessarily  
23 always going to be just EDB and source area but that  
24 we really need to be looking at multiple  
25 technologies implemented simultaneously and

1 sequentially to remediate the site.

2 This is a timeline we have shown on many  
3 presentations. It is really our way of helping to  
4 quickly summarize everything that is happening on  
5 the project and where we are going and getting an  
6 idea of time. So on the top half is more like the  
7 RCRA process and you can see we have the RFI that  
8 was submitted earlier this year. The drilling is  
9 ongoing. We have the core sampling that Kate  
10 mentioned, the continuous course. And the RFI that  
11 will come in, in mid to late 2018.

12 Once the Air Force has submitted the RFI  
13 addendum and NMED has reviewed it and when we  
14 approve it, as part of the approval process we will  
15 instruct the Air Force to proceed with corrective  
16 measures and evaluation. That step cannot begin  
17 until the RFI is complete. And the reason for that  
18 is that that gives us kind of a gate that says that  
19 New Mexico Environment Department and the Air Force  
20 are working for the same approved data set for that  
21 evaluation and there aren't any curve balls on  
22 either side. So that is why that is set up that way  
23 and you can see that is looking like it will start  
24 late, 2018 and progress into 2019.

25 And you can see that this is a long --

1     that is a long process that you are looking at even  
2     two years from now before the CME is submitted. In  
3     the meanwhile those are the interim measures that we  
4     use. And those two reasons for using interim  
5     measures on a RCRA site, one of them is to allow you  
6     to get after contamination as opposed to an  
7     immediate threat like this is all EDB that is, you  
8     know, looks like it is heading towards water supply  
9     wells is downgraded from the source water. That is  
10    one reason to use interim measures to start treating  
11    that, getting it out of the water immediately. The  
12    other reason for interim measures is so you can get  
13    site specific data for technology. That you use  
14    that CME because it is -- there is often a big  
15    change from theory, to lab, to field scale of  
16    remediation technologies. I personally have seen  
17    that happen where something works in a textbook and  
18    then it works great in the lab and then you  
19    implement it out in the field and it tends to take a  
20    right turn only because there are other factors that  
21    are happening in the background in the natural  
22    environment that you can't account for in either one  
23    of those. That's the reason for these interim  
24    measures. As Kate mentioned, we have got the air  
25    lift remediation pilot test. We didn't spend any

1 time talking about that tonight, but that is a  
2 fairly innovative technology to remediate LNAPL in  
3 the source area.

4 We also have the other pilot test. That  
5 work is ongoing. They have installed the wells, and  
6 it looks like they are on track to begin it in May.  
7 And then there is also the bioventing pilot test.  
8 That is coming from the shutdown test the Air Force  
9 completed over the last year and a half. That is  
10 targeting hot spots of fuel contamination in the  
11 soil and they have a really solid data moving to  
12 that type of interim measure and no longer doing  
13 solely extraction.

14 And then you can see that we have the EDB  
15 plume to continue going. We will look at the fourth  
16 well online, rehab that 233, bring that online let  
17 that run for a couple of quarters, keep them from  
18 capturing analysis and see if we need a fifth or  
19 sixth extraction well.

20 To be transparent, we do have a fifth  
21 extraction well penciled in on the map. It is one  
22 we threw on there with technical discussions in the  
23 working groups. We said, hey, we might need this,  
24 so we are already forward thinking on those in case  
25 we need them but really at this point it is very

1 important for us to get data.

2           What to expect in 2017, plenty of  
3 progress, although we will be zeroing in on the  
4 source area. We will continue operation of the  
5 treatment system, so EDB will continue to be treated  
6 and we will continue expanding and making progress  
7 in that treatment system. But in the meanwhile  
8 continuous course, we will address the LNAPL data  
9 gap, we will keep collecting samples from those  
10 newly installed well nests. We will get the pilots  
11 up online, bioventing online, air lift remediation  
12 online and then we will continue our public  
13 outreach, so we will not letup on that. And with  
14 that here is our question montage site and we will  
15 stand for questions.

16           CHAIRWOMAN PENA: First question,  
17 Commissioner Hart Stebbins.

18           COMMISSIONER HART STEBBINS: Thank you,  
19 Madam Chair. Diane and Kate, I want to thank you  
20 for being here. Thank you for this presentation.  
21 It really is refreshing to see the progress you are  
22 making, the work that everybody is doing to reach  
23 out to the community, restore some of the trust that  
24 was lost in previous iterations of this project.

25           I think particularly since Colonel

1     Froehlich has been commander of the base he has just  
2     been remarkable in really reaching out to the  
3     community as a whole to build trust in the work that  
4     you are doing. In that context I just wanted to ask  
5     you questions so over the last year I have been at  
6     two different presentations that you have given,  
7     Kate, one at the Kirtland Partnership Committee and  
8     one at the presentation for honorary commanders and  
9     you gave a presentation regarding the pump and treat  
10    system about the cone of depression just that it was  
11    moving remarkably well, you know, that things were  
12    just really coming along and the cone of depression  
13    was developing faster than anybody had expected  
14    which is what we would all want to see for this pump  
15    and treat system was being remarkably effective.

16                Since then I have heard suggestions  
17    perhaps that cone of depression had existed before  
18    the pump and treat system was even in place. So I  
19    am wondering if you could address that particular  
20    issue just about what is being said at these  
21    meetings and some of the other evidence that is out  
22    there.

23                MS. AGNEW: Madam Chair, Members of the  
24    Board that is a very good question. There was --  
25    last year I also attended a presentation where the

1 cone of depression was highlighted. There are  
2 preliminary things you would want to look at for  
3 pump and treat system.

4 Cones of depression are one of them that  
5 tells that you the extraction wells are extracting,  
6 that you're seeing water being lowered around and it  
7 is kind of an unexpected outcome. We have -- there  
8 is an existing cone of depression in the aquifer in  
9 this basin, it is created by the supply wells and  
10 those presentations, I believe you are referring to  
11 were small depressions localized on those extraction  
12 wells and those were just from the pumping of the  
13 aquifer and they were -- I meant to look before the  
14 meeting but they were not significant, you know, on  
15 the order of a couple of feet and then there is a  
16 larger cone of depression that is occurring in the  
17 aquifer. The cone of depression is not the right  
18 metric, to be very honest. The correct metric to be  
19 looking at is something like that what we have here,  
20 the reduction analysis. Those are quantifiable ways  
21 to look at how the plume is being captured by those  
22 extraction wells and treated.

23 A cone of depression can exist and you can  
24 be completely missing your contamination. And so,  
25 it is important to be looking at capture. I know

1     they have up here on the slide because that is  
2     actually quantifying what is happening  
3     hydrologically. And in this slide tells you what  
4     was happening chemically to verify that you actually  
5     are pumping and treating your contaminant in the  
6     target area, so I hope that answers your question.

7             COMMISSIONER HART STEBBINS: That does,  
8     thank you. And I raise that, I know it may seem  
9     like a very small sort of technical thing but I  
10    raise it in the context of that trust. You know,  
11    this community it has taken a lot of work to rebuild  
12    the trust and if there is something that is said  
13    that then turns out to be overly optimistic and not  
14    quite accurate, I think it -- there is always the  
15    potential for a setback. So I just want to make  
16    sure that we are really clear about, you know, what  
17    the situation really is.

18            MS. LYNNE: When we talk about the cone  
19    of depression, we were careful to say that it  
20    didn't mean what Diane is presenting tonight which  
21    starts to show, it is the first step to show -- we  
22    were excited because we saw the response to these  
23    extraction wells, I think, a little sooner than we  
24    thought we would. And we always said it doesn't  
25    show that we are starting to collapse it, it is not

1 showing the reduction in ethylene dibromide. The  
2 real proof in the pudding is what Diane talked about  
3 tonight. So all of these things are in a phased  
4 thing and it is hard to describe what is going on in  
5 smaller sound bytes without getting very, very  
6 technical and going through all of it. And so  
7 sometimes, I think it comes across and can be  
8 misinterpreted, we apologize for that. The intent  
9 was always to say, hey, we are seeing response in  
10 the aquifer, the extraction wells good, this is what  
11 we were looking for and this is what we will  
12 continue to monitor, and as we bring 233 back  
13 online, as we bring the fourth extraction well  
14 online, we will continue to do these analyses and  
15 not just the two that Diane showed today, but all  
16 the ways we slice and dice this to see if we are on  
17 the right track.

18           And one other thing I want to add about  
19 the extraction wells by boss Mr. Corel promised up  
20 to date, we have those funded. They are in a  
21 contract. I know people are nervous with everything  
22 that is going on, but they are contracted. And  
23 Number 5 is penciled in. But they are there. So if  
24 we need them, they will come.

25           COMMISSIONER HART STEBBINS: In your

1 slides you show in the plume capture, the dissolve  
2 base plume capture update, you talk about  
3 characterization of the horizontal extent. What  
4 about the vertical?

5 MS. AGNEW: Madam Chair, Members of the  
6 Board and Commissioner Hart Stebbins, that is a very  
7 good question. We do look at the vertical  
8 component. I don't have that in the presentation  
9 because it is a -- I will focus in for time but we  
10 have calculated the vertical capture it is more like  
11 70 percent for Q4 2016 and before 233 went off line  
12 it was at 93 percent. So we know from that captured  
13 analysis 233 is really crucial to get back online  
14 and at 73 percent is lower than we were expecting  
15 but we -- I am optimistic when we get 233 online and  
16 this fourth extraction well we will see that number  
17 get close to 100.

18 COMMISSIONER HART STEBBINS: Again, this  
19 is the type of information I think makes us really  
20 optimistic that this is being addressed. I  
21 appreciate again your focus on the dissolved phase  
22 plume which has always been the concern of this  
23 Board and how it was going to affect our water  
24 supply wells. So thank you for that.

25 Just one last question. The LNAPL. I

1 think you said that the vertical -- that that has  
2 not been characterized yet, the vertical extent of  
3 the LNAPL plume. I guess that surprises me because  
4 after all the work that has been done, all the work  
5 by CP&I that was part of the first phase of the  
6 contract. Why is it that that is still an unknown.

7 MS. LYNNE: Madam Chair, Commissioner  
8 Hart Stebbins, it is -- we know where the area of  
9 release is. We know where the release was. We know  
10 the basic area where the free product used to be and  
11 where there is still little bits of it, but what we  
12 don't know a lot about is how it is distributed,  
13 where to target. We have a good idea but we want to  
14 target our remediations properly plus, you know,  
15 when the fuel was released it doesn't stay in the  
16 form that it is in. It is affected by physical  
17 chemical change. It is affected by biological  
18 changes. It's been affected by the rise in the  
19 water table. And in order to really target and also  
20 support the enter measures, we will also get a lot  
21 of information, like Diane mentioned, when we run  
22 these two pilots, you know, both -- both pilots for  
23 EDB treatment. We will find out so much more about  
24 how it will respond to treatment in the field and  
25 the cores will help us figure out the areas to focus

1 in on the most. So, do we have a box, do we have  
2 good ideas, do we know a lot, yes, we do. Is that  
3 effort wasted, of course, it was not. But to design  
4 a system like this with complex stratigraphy with  
5 fuel that is weathered and changed over time, it is  
6 smeared around, we need more information. And  
7 everyone has agreed that these cores are really a  
8 good way to get that information.

9 MS. McCARTHY: One of the analysis that  
10 just occurred to me, so we have got the soil  
11 confirmed, but we know we have these hot spots but  
12 it is very analogous to seeing smoke over the Jemez  
13 Mountains so you know you have a fire and you don't  
14 know exactly where, right? It's similar to that.  
15 You drive to the exact location, you know exactly  
16 where it is, the extent of it. So that's really  
17 what we're hoping to do with that rather than be  
18 looking at the cloud in the sky that we zero in on  
19 the exact location.

20 COMMISSIONER HART STEBBINS: I want to  
21 thank you both for being here. Thanks to the Air  
22 Force, to Colonel Froehlich to everybody who has  
23 been a part of this NMED. It is great to see this  
24 progress and we look forward to hearing from you  
25 again in six months. Thank you.

1 CHAIRWOMAN PENA: Any other questions?

2 Well, I haven't been here for the past  
3 year but since the last time it is really  
4 encouraging to see all the work that you have done  
5 and it seems like a lot of progress has been made.  
6 The only thing I have to do is brush up on my  
7 acronyms again, so thank you.

8 So the next item we have is Item B,  
9 OB-17-3, Water Report Mr. John Stomp. And as you  
10 are making your way up here, I just want to welcome  
11 our County Treasurer who decided to sit in and  
12 listen to that information. Thank you, Ms. Bearce.

13 MS. BEARCE: Thank you.

14 MR. STOMP: Good evening, Madam Chair,  
15 Members of the Board. This is your March water  
16 report. We -- I have added a water report at the  
17 request of the executive director. We will be  
18 making a water report every month. This is the  
19 March water report. I added three things to the  
20 water report to talk about the spring runoff that is  
21 occurring and just to let you to know some of the  
22 operations that are going to be affected, talk about  
23 the compact compliance, the Rio Grande Compact  
24 Compliance and drinking water operations.

25 So usually we use the April forecast to

1 try to predict what the runoff is going to be, but  
2 the runoff is already occurring as a result of the  
3 high temperatures and dry season we have had over  
4 the last few weeks. The runoff basin predictions  
5 for the Rio Grande are basically more than  
6 100 percent. So this is going to be a pretty good  
7 year. On the Chama it is 140 percent, so we are  
8 going to be in flood operations in Abiquiu which  
9 means the channel capacity downstream of Abiquiu is  
10 not capable of handling the flows that are coming  
11 into Abiquiu so the flow on the Chama is estimated  
12 to be about 5,000 CFS. So Abiquiu is going to begin  
13 to start to fill up with floodwater and they are  
14 going to release it out of Abiquiu about 1,800 CFS.

15 That is important for us because we  
16 release our water out of Abiquiu for the drinking  
17 water project, so when they are in flood operations  
18 we are not allowed to release our San Juan-Chama  
19 water. Basically all the channel capacity is geared  
20 towards getting that floodwater out of Abiquiu. It  
21 doesn't mean we will have to stop the drinking water  
22 project operations, we will just make an exchange  
23 for our water as we divert it here out of water that  
24 we'll store in Elephant Butte. That is somehow how  
25 people have asked how do you use your water in

1 Elephant Butte, that's one way that we are going to  
2 be able to do it.

3           We think we're going to be in flood  
4 operations probably in about six weeks. So that  
5 just shows the huge amount of runoff that is going  
6 to be coming down the Chama. So, we are also going  
7 to plan on seeing about five or 6,000 CFS in the  
8 Middle Valley, which as unusual as you know, usually  
9 you drive over the Rio Grande it does not look like  
10 the Rio Grande, but this year it is going to be  
11 quite large. We are going to see 5,000 to 6,000  
12 over the course of probably six to eight weeks. It  
13 is going to be pretty amazing runoff.

14           In terms of the compact compliance, we  
15 have been in credit status for more than 20 years.  
16 In getting your delivery obligations, New Mexico has  
17 a delivery obligation to Texas as Colorado does have  
18 a delivery obligation to New Mexico. We have been  
19 in credit status for 20 years. We have built up  
20 over hundreds of thousands of acre feet of credit.  
21 When we do build up a credit in Elephant Butte,  
22 Texas can ask for release of that water and we call  
23 it relinquishment water and that credit water then  
24 becomes usable water for Texas to use. So we give  
25 up that credit in exchange for future storage

1 upstream. So we have relinquish all of those  
2 hundreds of thousands of acre feet of credit water  
3 that we have had over the last 20 years. And the  
4 benefit of that is we are able to store water in dry  
5 years. The problem with that is you have no safety  
6 cushion. So this last year we under delivered by --  
7 and it is a guess between which accounting method  
8 you're going to use, whether you are going to  
9 believe the Bureau's accounting or the State of New  
10 Mexico's accounting, but we have been in debit  
11 status, this is the first time in 20 years. What  
12 that also means is that whatever that debit is, that  
13 equal amount of native water is now held hostage in  
14 upstream reservoirs for Texas to call upon.

15           If we get 20,000-acre feet of water stored  
16 in a reservoir, for example, Texas could call for  
17 that water to be released. In other words, getting  
18 rid of the debit they hold us hostage for that  
19 water. Small debit 15 to -- 12 to 15,000-acre feet,  
20 so in terms of what that credit or that debit means  
21 this year it doesn't really mean that much. The  
22 problem is going to be we have a huge runoff this  
23 year and when you have a huge runoff this year  
24 Elephant Butte begins to fill, you have more  
25 evaporation in Elephant Butte as a result of that,

1 we pay the evaporative costs associated with that.

2           So sometimes when you have dry years and  
3 wet years in combinations when you get large debits.  
4 So we have been working with the State of New Mexico  
5 and MRGCD and others to figure out a way to manage  
6 the water this year in this year's operation so we  
7 can reduce the likelihood of a debit at the end of  
8 this year, specifically a large debit. We have been  
9 in Article 7, I apologize for talking about these  
10 articles and that way without you having the  
11 opportunity to know all about that. But Elephant  
12 Butte when it is below 400,000-acre feet we are not  
13 allowed to store water in New Mexico. We have been  
14 in Article 7 for about more than 15 years now  
15 because of the dry weather. We are going to get out  
16 of Article 7 this year with the runoff coming down.  
17 Elephant Butte will begin to fill, we will go above  
18 400,000-acre feet, that means El Vado will begin --  
19 the MRGCD will be able to start to fill the  
20 reservoir. There is going to be so much water it is  
21 possible that El Vado could actually this year. We  
22 haven't had a full El Vado for decades.

23           But of some of that water could be  
24 released later in the year to pay back some of this  
25 debt. So, it is complicated but the real story here

1 is we have been in debit for this year for the first  
2 time in a long time. It probably doesn't mean that  
3 much. What really could be a problem is if we enter  
4 into a debit situation two years in a row with a  
5 potential that this could be a very large debit. We  
6 have the Loomie lawsuit downstream with Texas that  
7 has not looked upstream but everybody is always  
8 looking upstream for water because Texas is always  
9 looking for more water. We can't pretend that that  
10 potential lawsuit isn't out there. But we obviously  
11 are paying attention to it.

12           So we will give you more information as we  
13 know and these water reports will help provide you  
14 an update. The State of New Mexico through the  
15 Interstate Stream Commission pays attention to the  
16 amount of water that we own Texas on a monthly basis  
17 so we have a really pretty good idea of how much  
18 water has been delivered during the year and how  
19 much water is left to be delivered. We will have an  
20 opportunity to talk to you throughout the year and  
21 give you an update on that.

22           In the drinking water project operations  
23 last year was the best we have ever done. We  
24 actually diverted 65 percent of our water last year  
25 was surface water that we drank from the drinking

1 water project. We were shut down during the month  
2 of October, so we could have achieved about 70 to  
3 75 percent. We anticipate this year that there will  
4 be no water supply shortages throughout the entire  
5 summer, so it is possible that we could get up to 70  
6 to 75 percent of our water supply coming from the  
7 drinking water project this year.

8 With these great flood flows come large  
9 sediment flows and so because we are in flood  
10 operations, we are going to see a huge challenge  
11 with that muddy water flowing down the river and us  
12 being able to treat that. That could have some  
13 impact on our potential ability to divert. We will  
14 come to you as we are required in our biological  
15 opinion with our annual operating plan next month in  
16 April to talk about what we anticipate how much  
17 surface water and how much groundwater we will be  
18 using this year. So that was a very fast report on  
19 a lot of information. I will be glad to answer any  
20 questions, Madam Chair.

21 CHAIRWOMAN PENA: Any questions. I  
22 appreciate the report. So thank you, Mr. Stomp.

23 So with that, seeing no further business  
24 this meeting is adjourned.

25 (Proceedings concluded at 6:46 p.m.)

1 STATE OF NEW MEXICO  
2 COUNTY OF BERNALILLO

3

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5 REPORTER'S CERTIFICATE

6 I, Paul Baca, New Mexico Certified Court  
7 Reporter, No. 112, do hereby certify that I reported  
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