

1 ALBUQUERQUE BERNALILLO COUNTY
2 WATER UTILITY AUTHORITY
3 Wednesday, November 28, 2012

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

7 PAUL BACA PROFESSIONAL COURT REPORTERS
8 500 Fourth Street, NW, Suite 105
9 Albuquerque, New Mexico 87102

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A P P E A R A N C E S

- COUNCILLOR KEN SANCHEZ, Chairman
- COMMISSIONER WAYNE A. JOHNSON, Vice Chairman
- MAYOR RICHARD BERRY, Member (Excused)
- COUNCILLOR REY GARDUNO, Member (Excused)
- COMMISSIONER ART DE LA CRUZ, Member
- COUNCILLOR TRUDY E. JONES, Member
- COMMISSIONER MAGGIE HART STEBBINS, Member
- TRUSTEE PABLO RAEL, Ex-officio Member
- MR. ROB PERRY, Admin. Officer, Alternate Member

1 CHAIRMAN SANCHEZ: Okay. We are ready to go. I
2 would like to call this November 28th, 2012, meeting
3 of the Albuquerque Bernalillo County Water Utility
4 Authority to order. Let the record reflect that
5 Councillor was excused, and all other members should
6 be present here this evening.

7 Let's go ahead and begin with a silent
8 invocation, followed by the Pledge of Allegiance,
9 which will be led by Trustee Rael.

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

11 (Whereupon, the Pledge of Allegiance was led
12 by Trustee Pablo Rael.)

13 CHAIRMAN SANCHEZ: Thank you, Trustee Rael.

14 Next item on the agenda is the approval of
15 the minutes. I make a motion to approve the
16 October 17th, 2012, minutes.

17 COMMISSIONER DE LA CRUZ: Second.

18 CHAIRMAN SANCHEZ: We have a motion and a
19 second. Any questions?

20 Seeing none, all those in favor, signify by
21 saying yes.

22 ALL MEMBERS: Yes.

23 CHAIRMAN SANCHEZ: Opposed, no.

24 That carries unanimously.

25 (6-0 vote. Agenda Item 3 approved.)

1 CHAIRMAN SANCHEZ: Next item on the agenda is
2 proclamations and awards. We have none this evening.

3 We are now under public comments.
4 Ms. Jenkins, how many speakers do we have signed up
5 this evening?

6 MS. JENKINS: Eleven.

7 CHAIRMAN SANCHEZ: We have 11 speakers that are
8 signed up to speak. We will allow you two minutes,
9 and a warning bell will ring at one minute and
10 30 seconds, and a second bell will ring at two
11 minutes.

12 And do you want to go ahead and announce the
13 first three speakers.

14 MS. JENKINS: Sandra Hahn, followed by Dave
15 McCoy, followed by Rob Gilkuson.

16 CHAIRMAN SANCHEZ: And once your name has been
17 called, we have some seating room here in the front,
18 so be prepared to speak.

19 MS. HAHN: Yes. Thank you very much. I didn't
20 know I was going to be called so early, but thank you
21 for this important water meeting.

22 You know, I am convinced that this poisoning
23 of our water in the Southeast is with a deliberate
24 intention from the powers that be. And it is a form
25 of population control. This water contamination is

1 only happening at our low income, Section 8, Medicaid,
2 Medicare recipient neighborhood International
3 District, which we also vote blue. And I think this
4 means it's a slowly but surely way to kill us off, the
5 population who receive disability, Social Security and
6 public assistance and food stamps.

7 You know, the wealthier Northeast Heights
8 and the other economically privileged neighborhoods
9 could care less about this and they're very
10 nonchalant, because it's never going to be their
11 problem because their neighborhoods will never be
12 affected like this. And, you know, I think they treat
13 the Southeast International District as a bunch of
14 illiterates, ignoramuses that can't read, write or
15 spell, and if we do figure out that our illnesses are
16 coming from water toxicity, we would have no means of
17 fighting back or even finding out or knowing what to
18 do.

19 And we're being talked out of suing the
20 government, and begging the Air Force base not to take
21 away their jobs. You know, giving jobs, it's great,
22 but if they pollute our environment, they need to
23 change their behavior.

24 And, you know, many of us are retired school
25 teachers, community college professors, social

1 workers, and, you know, some of us, like myself, know
2 how to read, write and spell.

3 And I have been feeling ill and sick because
4 of this water, getting severe headaches and illnesses,
5 and I can taste the petrochemicals, the leftover jet
6 fuel of spills from the Air Force base, you know, and
7 I talk to other community neighbors that have been
8 getting sick also. Thank you.

9 CHAIRMAN SANCHEZ: Thank you, Ms. Hahn.

10 Next speaker.

11 MS. JENKINS: Don Schrader, followed by Joseph
12 Wechsler, followed by Judy Cowell.

13 CHAIRMAN SANCHEZ: Welcome, Don.

14 MR. SCHRADER: Good evening. Tomorrow is not
15 guaranteed to any of us. Life is short. Death is
16 sure. If I had my life to live over, knowing what I
17 know now, I would aim to do many, many things
18 differently. In my final moments, what will I regret
19 most that I did? What will I regret most that I
20 failed to do? What will be history's verdict on me
21 after I'm gone? What will those who knew me commend
22 or condemn in my life?

23 Members of this Board, ask yourselves now,
24 "Am I doing my damndest to protect Albuquerque's
25 water from all poisons, especially the 24 million

1 gallons of Kirtland Air Force Base's deadly
2 underground river of toxic jet fuel? Will my children
3 and grandchildren praise me as a hero of conscience
4 with backbone, or will I be cursed as a spineless
5 political wimp, stupidly swallowing lame excuses and
6 false assurances from highly paid corporate and
7 government bureaucrats? What will my verdict about
8 myself be on my deathbed concerning safeguarding
9 Albuquerque's water for generations to come?"

10 CHAIRMAN SANCHEZ: Thank you.

11 Next speaker.

12 MS. JENKINS: Joseph Wechsler, followed by Judy
13 Cowell.

14 MR. WECHSLER: Good evening, everybody. I'm
15 just going to make a short statement.

16 At the meeting on November 8th with the
17 state legislature, a statement was made about the
18 reason we're planning to put water into the aquifer,
19 either by injection or going down through the layers
20 of earth. It's simply not true. You have to have
21 your people study the loss due to evaporation in
22 Abiquiu.

23 If you put 5,000 acre feet in the aquifer,
24 it does not save 5,000 acre feet of water. It only
25 saves about 800 acre feet due to the reduction of the

1 surface at Abiquiu. It's a complex problem. It has
2 to be studied, and people shouldn't be making
3 disengineering statements. Thank you.

4 CHAIRMAN SANCHEZ: Thank you.

5 MS. JENKINS: Judy Cowell, followed by Janet
6 Greenwald.

7 CHAIRMAN SANCHEZ: Ms. Cowell, if you'd like to,
8 we've got a microphone here on the side. It might be
9 easier for you. Welcome.

10 MS. COWELL: Thank you. I want to make some
11 suggestions. First, I -- I don't know what is on the
12 agenda tonight, and I understand that it keeps
13 changing at the last minute. It's hard to get. So
14 we're requesting that it be up on the web two weeks
15 before the meeting, if possible. And also if Sandia
16 and Kirtland are going to testify, could the public
17 please have an opportunity right on the spot to
18 respond?

19 And I have some -- I don't even know if they
20 are going to be here tonight, but here are some
21 questions that I'd like you to ask them. First, did
22 they receive the letter from the water protection
23 advisory board asking them to spend money that was
24 already allocated on the waste that's going down from
25 the mixed-waste landfill and other dumps on Sandia's

1 land?

2 Second, how do they arrive at putting a dirt
3 cover over an enormous amount of waste from Sandia
4 Labs, when we all know that water goes down with
5 gravity into the aquifer, eventually it's going to get
6 there? And why wasn't it removed? Why wasn't there a
7 lining? That's what I'd like you to ask them. Why
8 didn't they listen to the evaluations that they had?

9 And then for Kirtland, when is Kirtland
10 going to have the five-year review that was promised
11 two years ago?

12 And that's all. Thank you so much.

13 CHAIRMAN SANCHEZ: Thank you very much for your
14 time.

15 MS. JENKINS: Janet Greenwald, followed by Paul
16 Robinson.

17 CHAIRMAN SANCHEZ: Welcome, Janet.

18 MS. GREENWALD: Thank you. Thank you for this
19 opportunity to speak. I'm Janet Greenwald,
20 co-coordinator of Citizens for Alternatives to Radio
21 Dumping, and a member of Our Endangered Aquifer
22 Working Group and AVAT.

23 And I have a lot of thanks to give. I'd
24 like to thank the water utility authority for the very
25 astute and caring volunteers on their advisory boards.

1 I've been working with them and it's been a pleasure.

2 Having said that, I and many of us feel that
3 the community needs more opportunities for
4 involvement. Interest is high in the water pollution
5 issues that we all are facing now. And we would like
6 to see some members of the grassroots groups and
7 neighborhoods associations concerned about aquifer
8 pollution on these advisory boards.

9 Several times recently, the water protection
10 advisory board has not been able to vote on issues
11 concerning Sandia because so many members of the board
12 work at Sandia and they have to, of course, recuse
13 themselves at that time. So I'm asking that some
14 process be initiated so that the community can be more
15 involved in these boards.

16 Thank you very much.

17 CHAIRMAN SANCHEZ: Thank you.

18 MS. JENKINS: Paul Robinson, followed by Nancy
19 Bearce and Charles Dickerman.

20 CHAIRMAN SANCHEZ: Welcome, Paul.

21 MR. ROBINSON: Good evening. Thank you very
22 much. I appreciate the opportunity to appear before
23 you. I want to talk about the problems that have
24 resulted in Albuquerque's aquifer as a result of
25 several very old spills and leaks that have occurred:

1 The Kirtland Base fill, Tijeras Arroyo groundwater
2 area, the Tech Area 5, which you'll hear discussed.
3 These are releases that began in the 1950s.

4 At the time, the Albuquerque aquifer was a
5 hundred feet higher than it is in the places where
6 these areas are located. And the area where the
7 aquifer has dropped, that hundred feet is an area that
8 shows soil vapor contamination from trichloroethylene
9 at Tech Area 5 and gasoline and diesel organics at the
10 Kirtland Base area. And this is an area that needs to
11 be protected, have contaminants removed so that they
12 don't reach the aquifer.

13 So the challenge of the authority to address
14 these matters is more than just making sure our water
15 supply wells are safe, but that there are releases
16 into the aquifer and the areas that drain to it are
17 remediated so they don't present sources of
18 contaminants.

19 Because there's no opportunity to provide
20 comment on the presentation by Sandia, identified as
21 Item 10A, I'd like to request an opportunity to make a
22 presentation providing additional information on that
23 matter at the next meeting, if that's possible.

24 Thank you very much. Appreciate your time.

25 CHAIRMAN SANCHEZ: Thank you.

1 MS. JENKINS: Nancy Bearce, followed by Charles
2 Dickerman, followed by Elaine Hebbard.

3 MS. BEARCE: Chairman Sanchez and Members of the
4 Water Authority, my name is Nancy Bearce. I'm
5 president of La Mesa Community Improvement
6 Association, as well as president of Councillor
7 Garduno's District 6 Coalition of Neighborhoods, that
8 include the International District and the site of the
9 Kirtland spill at this point.

10 I'm here to ask your support of passage for
11 Resolutions 13 and 14 on the agenda. The authority is
12 here to protect the water supply of all
13 Albuquerqueans, from Placitas to the South Valley. It
14 is estimated now that the jet fuel spill is two to
15 three times the size of the Exxon Valdez spill. The
16 public first was made aware of this in the year 2000,
17 and after 12 years of waiting, it is time for you to
18 pass these two resolutions.

19 Thank you very much.

20 CHAIRMAN SANCHEZ: Thank you.

21 MS. JENKINS: Charles Dickerman, followed by
22 Elaine Hebbard, followed by Dave McCoy.

23 CHAIRMAN SANCHEZ: And, again, once your name
24 has been called, if you would please come to the front
25 and be prepared to speak.

1 Welcome.

2 MR. DICKERMAN: Thank you. First of all, I
3 think it's kind of good that the public gets to speak
4 first to let you know the immediate concerns right
5 here.

6 Oh, boy, I have mixed notes, but it won't
7 take more than two minutes. There's a lot of
8 evidence -- oh, my main concern is the mixed-waste
9 landfill, the radioactivity there in -- there's a big
10 report that I read by Citizen's Action and
11 Mr. Gilkuson. There's strong evidence, and this has
12 been recognized by authorities, that it's not being
13 monitored properly. I think a review is in great
14 need.

15 I just have one more sentence and that will
16 be it.

17 The Department of Energy environmental
18 management promised an independent expert review in
19 2010, and they haven't done that. And I think it
20 needs somebody to look into what's going on. My
21 personal feeling, it's not being monitored properly.

22 And that's all I have to say. Thank you
23 very much.

24 CHAIRMAN SANCHEZ: Thank you for coming down.
25 And thank you for your time.

1 Next speaker.

2 MS. JENKINS: Elaine Hebbard, followed by Dave
3 McCoy, and Bob Gilkuson.

4 CHAIRMAN SANCHEZ: Welcome, Elaine.

5 MS. HEBBARD: Good afternoon. As an aside, with
6 Ms. Cowell's comment, the Denver CAC, customer
7 advisory committee, that was used by Mr. Roth when he
8 set this one up, allows for more citizen participation
9 in its associates groups, so it might be something to
10 consider.

11 I'm here not to talk about water quality,
12 because I think that you've heard a lot about water
13 quantity, which impacts water quality. As you know,
14 it's been really dry and it looks like it's going to
15 continue to be dry. The projections look like we will
16 have less water precipitation through next May.

17 So we have a couple of different goals that
18 we set out for ourselves. One is the annual operating
19 plan that says how much we're going to pump, and that
20 runs from April 1st to May 31st. We've already
21 exceeded it and we have five months to go. Just alone
22 in October, where we said we were going to pump
23 933 acre feet, we pumped well over 8,000, more than
24 nine times.

25 So under the drought management strategy,

1 when we are exceeding our pumpage by more than 140
2 percent, then it kicks in certain strategies. And I
3 don't see anything on the agenda talking about how dry
4 it is, talking about how much we need to perhaps take
5 some action.

6 Yes, we've kept our usage about equal, and
7 that's that last slide in your package, but the
8 difference between the groundwater and the surface
9 water portion of that is what's important to also look
10 at. So in addition to taking some action, and I think
11 that there could be some work by the board, also
12 updating the model and putting the interactive water
13 model onto the web, would allow all of us to sort of
14 try some different options and alternatives as we're
15 looking at our new GPCD end rate decisions.

16 Thank you. Any questions?

17 CHAIRMAN SANCHEZ: Thank you.

18 MS. JENKINS: Dave McCoy, followed by Bob
19 Gilkuson, then Jim McKay.

20 CHAIRMAN SANCHEZ: Welcome, Dave.

21 MR. MCCOY: Good evening. Citizen Action, Dave
22 McCoy.

23 I've got some handouts down here, but they
24 haven't been handed out. The water utility authority
25 should not assume that Sandia is presenting accurate

1 information about the safety of the mixed-waste
2 landfill dump. Citizen Action expects to receive the
3 same amount of time on the authority's agenda for a
4 presentation on this matter.

5 The dump has never had a reliable network of
6 groundwater monitoring wells. The dirt cover over the
7 waste will not be protective of the groundwater.
8 Numerous documents from the administrative record,
9 recent documents received in our Freedom of
10 Information Act lawsuits and the report of the EPA
11 office of the inspector general bear this out.

12 The water utility authority should send a
13 letter to the NMED requesting that before any approval
14 is given for the long term monitoring and maintenance
15 plan, one, the five-year review that was ordered by
16 the May 26th, 2005, order for the feasibility of
17 excavation of the dump must be performed by Sandia
18 Labs. And secondly, an evidentiary public hearing
19 must be held.

20 The question the water utility authority
21 should be asking Sandia Labs is when does Sandia
22 intend to excavate the mixed-waste landfill dump to
23 protect Albuquerque. Some of the poisons that are in
24 the dump one mile from the Mesa del Sol children's
25 park include the following: Presence of

1 radionuclides, 119 barrels of plutonium and americium
2 waste; tons of toxic metals; over 40,000 pounds of
3 depleted uranium; 204,000 gallons of reactor
4 wastewater with hexavalent chromium; PCBs and solvents
5 such as TCE and PCE; migration of tritium has occurred
6 to at least 100 feet.

7 The DOE Hanford experience has shown that
8 waste often finds the means and mechanisms for
9 extensive migration into the environment. Albuquerque
10 has already experienced enough contamination. The
11 water utility authority should demand cleanup of the
12 mixed-waste landfill dump now. Quit fooling around
13 with this thing. It's a very dangerous dump.

14 Thank you.

15 CHAIRMAN SANCHEZ: Thank you.

16 MS. JENKINS: Bob Gilkuson, Jim McKay, and
17 Madeline Perotti.

18 CHAIRMAN SANCHEZ: Welcome.

19 MR. GILKUSON: Thank you for this opportunity.
20 My name is Bob Gilkuson. I'm a technical expert with
21 40 years experience on these issues. I support the
22 comments made by Dave McCoy.

23 I request -- I have prepared a 30-page hand
24 out for this meeting, which I'm leaving here. I
25 request an opportunity to make a presentation of the

1 material in this handout at a future meeting.

2 In addition, I request for the board to
3 establish a technical expert panel to investigate the
4 issues in this memo, and also, in a comprehensive case
5 history report that I wrote with Dave McCoy back in
6 2010. We need to pursue the overall failure of the
7 groundwater situation for the Sandia mixed-waste
8 landfill.

9 I have performed a comprehensive study of
10 this situation and invested thousands of hours of
11 time, and I know that I am comfortable with the
12 statement that there is an overall failure of
13 groundwater protection strategies at that disposal
14 site.

15 Thank you.

16 CHAIRMAN SANCHEZ: Thank you for your time.

17 MS. JENKINS: Jim McKay, followed by Madeline
18 Perotti, followed by Joan Brown.

19 MR. MCKAY: Jim McKay. I've been up here few
20 times. You know, some of us that have been paying a
21 lot of attention and putting all our time into this
22 for some time, counted it as progress when you stood
23 up at the last meeting and said you're symbolic.
24 Progress, because it seems like a starting to come out
25 of the FOG as to the reality of the severity of this

1 jet fuel spill.

2 And we hear things like -- you know, myself
3 and Dave McCoy and people that have put the time in,
4 so we know what we're talking about, I've heard
5 Mr. Johnson say it, I've heard other people say it,
6 that we're scaring people, you know, one after
7 another, after another.

8 This financial crisis was a massive problem.
9 People who live here, they've had their -- retired
10 people have lost 50, 60 percent of the value of their
11 homes, their 401(k)s have evaporated. It was flawed.
12 We've sunk more than one and a half years, the entire
13 GDP of the United States in the bailing out of the
14 guys who pulled this off. And that's why we get zero
15 interest rates when you read the newspapers every
16 week, that PERA and all these other state finance
17 entities are going belly up. The state is broke. And
18 it's no wonder.

19 And now we're hearing about how the board
20 and the people behind it that work for you are
21 worried, where are we going to get the money, where
22 are we going to get the money for this and that just
23 for a lousy monitoring well at Ridgecrest 5. You
24 know, we've heard some of these other things, and it
25 appears now the Air Force is not going to pay for

1 that, that it's going to be put on the taxpayers' back
2 here.

3 What we've been saying for quite some time,
4 and it's really getting serious -- you guys talk about
5 we have time, we have time, we have time. It's been
6 50 years. We need a summit meeting. We need five,
7 six days taking drinks from a fire hose with all the
8 experts that the Air Force has been telling for
9 decades when these people knocked on their doors and
10 told them --

11 CHAIRMAN SANCHEZ: Bob (sic), your time is up.
12 Thank you.

13 MR. MCKAY: That they told them to go away or
14 they'd fire them.

15 CHAIRMAN SANCHEZ: Thank you.

16 Next speaker.

17 MS. JENKINS: Arlene Perotti followed by Joan
18 Brown.

19 CHAIRMAN SANCHEZ: Welcome.

20 MS. PEROTTI: Good evening. I'm sure that you
21 folks share our extreme anxiety about the water for
22 Albuquerque. And I think the issue of saying it costs
23 too much to put the kind of money is not sufficient
24 reason.

25 To have quality water and to have the

1 quantity that we need, which is not looking to good
2 with the San Juan and Chama, it's going dry, the Rio
3 Grande going dry, I think we really need to put the
4 money where we want.

5 I would like to talk about the Sandia
6 landfill. I don't think it's sufficient to say that
7 we're going to have -- I went to a hearing and they
8 were talking about monitoring and managing the Sandia
9 landfill. I say get it out. No monitoring, no
10 management. Get it out so we don't have problems.

11 The second thing is, with respect to the
12 Kirtland Air Force spill, I was at the meeting last
13 night, and I'm also looking at the report that you
14 folks had, I'm concerned about different kinds of
15 information that are being spoken about. One of the
16 things that they talked about last night was soil
17 vapor extraction.

18 Well, how much can -- of the pollution can
19 be done by soil vapor extraction. There's real
20 deliberation and nobody seems to really agree with
21 what that's doing. The Army civil engineers last
22 night were saying -- yes, they've commented on things,
23 but those comments are not available to us. Those are
24 all in secret.

25 So I really believe that we need a summit.

1 And I think it's not just the groups that have vested
2 interest, like the Air Force and the Pentagon and
3 people, but I think the people --

4 CHAIRMAN SANCHEZ: Ma'am, your time is up.
5 Thank you very much.

6 MS. PEROTTI: Summit, please.

7 CHAIRMAN SANCHEZ: Appreciate it.

8 MS. PEROTTI: Thank you.

9 MS. JENKINS: Joan Brown.

10 CHAIRMAN SANCHEZ: Welcome, Joan.

11 MR. BROWN: Good evening Chair Sanchez and water
12 authority. Thank you very much for giving your time
13 to this really important service and leadership. And
14 because it is such a significant leadership, without
15 water, we have no life, we have nothing in this area.
16 And we're at a point where I think that we're facing
17 critical issues of quantity as well as the quality of
18 our water.

19 So I am a citizen and I basically just want
20 to say that I'm very concerned about the situation.
21 And I do believe that the mixed-waste landfill needs
22 to be addressed and not just do monitoring all the
23 time, that it needs to be really addressed and get rid
24 of that, those toxins there.

25 I also want to say that as we face more and

1 more climate change, we know our river is dry, we
2 don't have the water that we really need to protect
3 our aquifer. And at this point, I believe the
4 Kirtland fuel spill is a huge disaster just seeping
5 its way to a moment of no solution in sight. And so I
6 really beg for you to take critical action on that.

7 I feel that we're very blessed to have a lot
8 of citizen experts who have, in their professional
9 lives, worked with water, worked with toxins, worked
10 with these issues, and I think it would behoove us to
11 draw upon their expertise in a very, you know, public
12 kind of way to receive their information and to
13 address this issue.

14 So, again, thank you for your work. And I
15 just beg you to take this moral, ethical issue very
16 seriously. Thank you.

17 CHAIRMAN SANCHEZ: Thank you for coming down
18 this evening.

19 That concludes general public comments. We
20 will now go to the next item on the agenda, and that
21 is the announcements and communications.

22 The next scheduled meeting, given the
23 holidays, the next board meeting will be held on
24 January 16th of 2013 at 4:00 p.m. in the Vincent E.
25 Griego Chambers.

1 The next item on the agenda is
2 introductions. It's going to be the first reading.
3 We will not vote on this item this evening. And
4 basically, I am sponsoring this legislation. And one
5 of the things that I am looking at doing is forming a
6 finance and audit committee for this board.

7 The board would meet monthly. We would look
8 at some of the audit functions. And one of the things
9 that I would also like to look at would be bills that
10 are being introduced. And it would go to the finance
11 committee to look at some of the expenditures and
12 cost. I think it would bring more oversight to this
13 board with some recommendations to the full board.

14 Also, we are breaking away from the city's
15 accounting system. And I think it's important now
16 that we are leaving the city's accounting system that
17 we form this finance committee and meet more
18 frequently so we are understanding of what functions
19 we are doing and what's going on, especially with our
20 finances.

21 I've also requested that Director Sanchez
22 also bring in an internal auditor to look at some of
23 the functions going on within the water authority that
24 would present issues in the finance committee and also
25 to this board. I just feel this -- there's so many

1 issues that we confront and deal with here that have a
2 huge financial impact on the ratepayers and the
3 citizens of this city that we need to look at this a
4 little bit more closely. And I think with the finance
5 committee, that would work out fine.

6 The committee would be comprised of the
7 chairman, the vice chairman, and then the chairman
8 would pick one of the other members to serve on that
9 committee. But I think it's paramount and I think
10 it's critically important that we form this financial
11 and audit committee.

12 Any questions?

13 COUNCILLOR JONES: Mr. Chair.

14 CHAIRMAN SANCHEZ: Yes, President Jones.

15 COUNCILLOR JONES: Mr. Chair, the internal
16 auditor that you're talking about, is this a position
17 that we already have in the water authority? And if
18 not, how is it to be funded and to whom will that
19 position answer?

20 MR. SANCHEZ: Mr. Chairman, Councillor Jones,
21 it's a contract function and it is with an outside CPA
22 firm, Porch & Associates. And they are on board;
23 they're starting to do some work. As Chairman Sanchez
24 had mentioned, they will begin their work over the
25 next few months, and help us as we make this

1 transition into our own accounting system. And they
2 will interact with this financial audit committee.

3 CHAIRMAN SANCHEZ: Go ahead and proceed.

4 COUNCILLOR JONES: Thank you, Mr. Sanchez. So
5 this is a position that we had already -- that had
6 already been contemplated by the administration for
7 converting to our own accounting system and this is
8 simply --

9 MR. SANCHEZ: Correct.

10 COUNCILLOR JONES: -- an additional function for
11 that particular position?

12 MR. SANCHEZ: Correct.

13 COUNCILLOR JONES: Thank you.

14 Thank you, Mr. Chair.

15 CHAIRMAN SANCHEZ: CAO Perry.

16 MR. PERRY: Thank you, Mr. Chairman.

17 Mr. Chairman, I support your efforts to form this
18 committee. I think that the issues surrounding
19 finances of the water utility authority are very
20 complex, time consuming and it's possibly something
21 that needs to be separately reviewed and dug down into
22 the details a little bit more than we have the
23 opportunity to do with staff typically in preparation
24 for these types of meetings. So, you know, I support
25 that type of initiative.

1 CHAIRMAN SANCHEZ: And I know that it's one more
2 meeting for those members that will serve on that
3 committee, but I think it's such an important
4 function, especially dealing with the issues that
5 we're going to be confronting in moving over to our
6 own accounting system, that's needed now more than
7 ever been. And we will continue it as we deal with
8 even the introductions of legislation that we can
9 bring forth and back to this board.

10 Any other questions or comments?

11 Okay. Let's go ahead and proceed in the
12 next item on the agenda, that is the approval of the
13 consent agenda.

14 I move approval of the consent agenda.

15 MR. PERRY: Second.

16 CHAIRMAN SANCHEZ: We have a motion and a
17 second. Any questions?

18 Seeing none, all those in favor, signify by
19 saying yes.

20 ALL MEMBERS: Yes.

21 CHAIRMAN SANCHEZ: Opposed, no.

22 That carries unanimously.

23 (6-0 vote. Agenda Item 8 approved.)

24 CHAIRMAN SANCHEZ: Next item on the agenda are
25 approvals. The first item is Item R-12-13. It's a

1 floor substitute authorizing an agreement with the
2 Kirtland Air Force Base for protecting Albuquerque's
3 drinking water and a contingency plan coordination.

4 And to speak on that issue, we will have
5 Commissioner De La Cruz, Mark Sanchez on the
6 resolution, and Colonel Lanning is also here this
7 evening, and John Stomp.

8 Commissioner De La Cruz.

9 COMMISSIONER DE LA CRUZ: Thank you, Chairman.
10 I think it's become abundantly clear to the board that
11 we need to have a way to move forward and to create a
12 spirit of cooperation, coupled with action. And so
13 it's with that spirit that I offer this resolution.

14 Let me just read a few points that I think
15 are important to make so that not only the board but
16 the viewing public as well as members in the audience
17 can understand what the genesis and what the
18 motivation is behind the resolution.

19 The jet fuel spill originating at Kirtland
20 Air Force Base has been a source of grave concern for
21 this board for many months. The jet fuel doesn't
22 merely endanger the groundwater in the vicinity of the
23 spill and polluting the aquifer, it also threatens the
24 water authority's 500 million investment in the San
25 Juan Chama drinking water project, which is intended

1 to protect and preserve our aquifer as a water supply
2 for the entire community.

3 Fortunately, there's still no
4 contamination -- and I want to reiterate that there's
5 still no contamination from the spill being detected
6 at any of the water authority's production wells.
7 Wells down gradient from the plume are sampled on a
8 monthly basis by the water authority. This board
9 commends Kirtland Air Force Base leaders for taking
10 responsibility for the spill and appropriating 50
11 million in 2010 to investigate contamination and
12 install a final cleanup system at the site, and
13 assuring us on several occasions that they "own" this
14 problem.

15 With that said, now is the time for the
16 contingency planning efforts between the water
17 authority and Kirtland Air Force Base to be formalized
18 and the roles and responsibilities need to be
19 determined and assigned to the water authority and
20 Kirtland Air Force Base immediately. This is why I am
21 introducing this second floor substitute for
22 Resolution R-12-13, which I believe merges the spirit
23 and intent of R-12-13 and R-12-14 and allows the water
24 authority to enter into a memorandum of agreement with
25 Kirtland Air Force Base for the purpose of coordinated

1 contingency planning.

2 The MOA, which we have for our review,
3 outlines the terms in which the U.S. Air Force has
4 agreed to pay for a contractor to develop contingency
5 plan options and that the water authority will approve
6 and implement in the event a production well or wells
7 are impacted by the jet fuel spill.

8 The MOA provides the water authority with a
9 reimbursement and other agreed-to expenditures related
10 to the contingency planning effort. The resolution
11 also authorizes the water authority to work with the
12 hydrology experts at the U.S. Geological Survey to
13 determine the best location for early warning wells
14 within the capture zones of the Ridgecrest production
15 wells and to drill these new monitoring wells with
16 USGS drilling crews. These wells will serve as both
17 early warning wells for the contingency plan effort as
18 much needed regional aquifer study locations.

19 Finally, the second floor substitute for
20 R-12-13 urges Kirtland Air Force Base to step up the
21 cleanup effort of the jet fuel spill and to have an
22 aggressive final remedy in place and be fully
23 operational by December 31st, 2014, which is a full
24 year before Kirtland Air Force Base leadership told
25 this board at our June meeting that full remediation

1 efforts would probably begin.

2 Members of the Board, Councillors,
3 Commissioners, I encourage your support to this so
4 that we can move forward.

5 Thank you, Mr. Chair.

6 CHAIRMAN SANCHEZ: Commissioner De La Cruz, do
7 you want to go ahead and move the resolution and then
8 move the floor substitute?

9 COMMISSIONER DE LA CRUZ: So moved.

10 CHAIRMAN SANCHEZ: We have a motion and a second
11 on R-12-13.

12 And move the floor substitute at this time?

13 COMMISSIONER DE LA CRUZ: So moved.

14 CHAIRMAN SANCHEZ: We have a motion and a second
15 for floor substitute R-12-13. All those in favor,
16 signify by saying yes.

17 ALL MEMBERS: Yes.

18 CHAIRMAN SANCHEZ: Opposed, no.

19 That carries.

20 (6-0 vote. Floor substitute approved.)

21 CHAIRMAN SANCHEZ: And we'll go back to the bill
22 to vote on that in just a minute as substituted.

23 Commissioner Hart Stebbins.

24 COMMISSIONER HART STEBBINS: Thank you, Mr.

25 Chairman. And I don't know who wants to answer these

1 questions. Commissioner De La Cruz maybe or maybe the
2 water utility staff.

3 I just have a couple -- well, just a few
4 questions about this. So starting with the
5 resolution, in Section 4, we talk about it requires
6 submission of a work for aggressive final remedy, the
7 plan by December 31st, 2013. And how does that relate
8 to the requirements of the performance-based contract
9 that has been awarded to Shaw?

10 COMMISSIONER DE LA CRUZ: Mr. Sanchez, go ahead
11 and proceed.

12 MR. SANCHEZ: Mr. Chairman, Commissioner
13 Stebbins, I think when Colonel Lanning comes up, he
14 might be the best one to address that question.

15 COMMISSIONER HART STEBBINS: Okay. It just
16 seems to me that that was one of the requirements of
17 the Shaw contract, was a work plan for the final
18 remedy. And this seems to be pushing the deadline
19 back. So I'm just wondering, this is part of
20 resolution that we're voting on, what's -- how do they
21 relate? Why would we be duplicating that?

22 Should I wait for the colonel?

23 CHAIRMAN SANCHEZ: Did you want to go ahead and
24 call down Colonel Lanning now to answer that question,
25 and then he can speak on the issue?

1 MR. SANCHEZ: Mr. Chairman, I think Commissioner
2 De La Cruz adequately addressed the resolution, and I
3 think we're getting into the agreement itself and the
4 contingency planning efforts and how it might relate
5 to existing deadlines. So I think Colonel Lanning and
6 John Stomp can kind of walk you through the process
7 that a technical work group went through and how these
8 deadlines interrelate.

9 COMMISSIONER HART STEBBINS: That would be
10 great. I just want to point out that that is a
11 section of the resolution --

12 MR. SANCHEZ: Correct.

13 COMMISSIONER HART STEBBINS: -- not the MOA or
14 MOU.

15 COMMISSIONER DE LA CRUZ: And if I might, Mr.
16 Chairman, just add that part of the what we're trying
17 to accomplish, Commissioner, is to have the efforts
18 run parallel when necessary. And I believe that as we
19 work through this, that there won't be any
20 duplication.

21 COMMISSIONER HART STEBBINS: Okay.

22 Mr. Chairman, if I may continue. Or should
23 I wait? Was that the end of our presentation or do we
24 have more information that might --

25 CHAIRMAN SANCHEZ: No, that's not the end of the

1 presentation. We still have the colonel and John
2 Stomp to speak.

3 COMMISSIONER HART STEBBINS: Great. Then I'll
4 save my questions for them. Thank you.

5 CHAIRMAN SANCHEZ: Okay. Let's go ahead and
6 have Colonel Lanning come up, and also John Stomp.

7 Welcome, Colonel.

8 COL. LANNING: Colonel Jeff Lanning, Mr. Chair,
9 Ladies and Gentlemen. I'm here just basically to
10 reiterate that we do have a memorandum of agreement.
11 We had an initial version late last week that was in
12 fact signed by the wing commander, Colonel John
13 Kubinec, who, unfortunately, couldn't be here today.
14 He's in Washington, D.C.

15 There was a minor change to that document,
16 which will require another signature. However, the
17 Air Force is ready to sign the memorandum of agreement
18 that is referenced in this resolution.

19 Unfortunately, I can't speak to the
20 resolution, but I can speak to the MOA if there are
21 questions or concerns regarding the MOA.

22 CHAIRMAN SANCHEZ: Are there any questions
23 regarding the MOA?

24 Commissioner.

25 COMMISSIONER HART STEBBINS: Thank you, Mr.

1 Chairman.

2 Thank you for being here tonight, Colonel.
3 So pertaining to the MOA, one of the provisions is
4 Kirtland's participation will depend on the ability of
5 the Air Force Civil Engineering Center to award and
6 administer an engineering services contract.

7 So are there reasons why that would not
8 happen? I mean, are there circumstances where the
9 AFCEC could not -- I'm just wondering why that
10 provision is in there, if there are some reasons why
11 the Air Force could not get that done.

12 COL. LANNING: Mr. Chair, Commissioner Hart
13 Stebbins, as I understand it, that language is in
14 there because as we look forward, this is going to be
15 a lengthy process and the length of this process will
16 exceed our current fiscal authorities. And so we
17 cannot put language into this MOA which would exceed
18 our fiscal authorities.

19 So what we've -- the way we've tried to
20 characterize that is that there's every intention to
21 do that, however, we are -- we are always obligated to
22 maintain those fiscal responsibilities that are
23 provided to us by Congress. And should they not be
24 forthcoming, then that could limit AFCAC, the Air
25 Force Civil Engineering Center's ability to put it

1 forward.

2 COMMISSIONER HART STEBBINS: Okay. Thank you.

3 And, Mr. Chairman, if I may continue.

4 Under the scope of work, it talks about this
5 plan to be developed jointly. What if there a
6 difference of opinion on key issues? I mean, there
7 are a number of factors. It's not really spelled out
8 here how those conflicts would be resolved. What do
9 you expect that plan to be?

10 COL. LANNING: There is no spelling out of how
11 those conflicts would be resolved. I anticipate that
12 those would be resolved initially at the low levels as
13 they continue to be worked. If there's continuing
14 disagreements, that we would elevate on our end in the
15 Air Force and working through representation through
16 the water utility authority and work to achieve a
17 consensus, which is the great part about our nation
18 and about this state, is that we work to identify a
19 consensus and then push forward with an agreed-upon
20 solution.

21 COMMISSIONER HART STEBBINS: Great. Then,
22 again, under the scope of work, I notice there's no
23 requirement that there be an agreement on what the end
24 product is. So as we're putting this -- as the plan
25 is being developed, one issue that has come up

1 consistently in this whole debate is what's considered
2 clean. Are we going to looking at EPA standards,
3 pre-spill condition? Does that need to be spelled out
4 in this MOA?

5 COL. LANNING: Mr. Chair, Commissioner Hart
6 Stebbins, I believe that's part of the process that
7 the MOA lays out, is for those discussions and for
8 that, exactly for that kind of discussion to go
9 forward, for us to be able to engage in that dialogue
10 and to determine exactly what those levels need to be
11 and come to a consensus on that in order though scope
12 the problem and be able to develop a contingency plan,
13 as appropriate, and as agreed upon by both parties.

14 COMMISSIONER HART STEBBINS: Thank you. Because
15 I noticed that there are some very specific
16 deliverables that are spelled out. And maybe I should
17 ask our water utility staff.

18 This is an issue that has come up
19 repeatedly. Is this something that we need to put in
20 the MOA, what that final -- what the definition of the
21 final product is? I mean, we're talking about
22 remediation, basically, if it reaches the wells, how
23 is it going to be cleaned up. Do we need to spell
24 out, so we have an agreement, what is the standard for
25 clean?

1 MR. STOMP: Mr. Chairman and Commissioner Hart
2 Stebbins, I think the purpose of the agreement is to
3 develop a contingency plan for alternative water
4 supplies.

5 In our view, alternative water supplies
6 means water that meets the standards that Ridgecrest
7 Wells 3 and 5 are providing at this time. We have,
8 under the agreement, the opportunity to agree -- the
9 MOA states that this contingency plan will be mutually
10 agreed upon by both entities, us being the ones
11 holding the end product in terms of being able to
12 supply the water to our customers.

13 So you'll notice in the MOA it also talks
14 about going out for public comment. Because we can't
15 just lay out the plan. We need to go out to the
16 public and talk to them about what are these
17 alternative strategies and whether or not the public
18 is going to accept -- for example, one of the
19 strategies would be treat the water, remove the
20 material and serve it right back to our customers.

21 Is that direct use going to be acceptable to
22 our customers? We don't know that. We need to ask
23 them that question. Should we reinject it back into
24 the aquifer, where should we do it? There's a lot of
25 different supply alternatives. Should we increase

1 surface water use, should we drill new wells and shut
2 off Ridgecrest 3 and 5?

3 There's a lot of questions that we don't
4 answer, but out point of the MOA is that we are going
5 to get an equivalent water supply in exchange for any
6 damage or contamination that might reach these wells.
7 So right now, these wells have a certain water quality
8 which is significantly better than the drinking water
9 standard, as you know, and we would say that this
10 alternative water supply, substitute water supply,
11 whichever you want to call it, would at least meet
12 that minimum standard.

13 COMMISSIONER HART STEBBINS: Okay. So
14 remediation at the wellhead could be just one option
15 for replacing the water supply? It wouldn't be a
16 replacement, but that might be one alternative, and
17 you're going to look at other ones. What could some
18 of those options be?

19 MR. STOMP: Well, Mr. Chairman and Commissioner
20 Hart Stebbins, I think that we need to make sure that
21 the public and everybody on this board understands
22 that we're not talking about remediation of the jet
23 fuel plume. We're talking about an alternative water
24 supply in the event that those two wells get
25 contaminated.

1 And so we could treat right there -- we call
2 it wellhead treatment. We could treat right there.
3 We would have to have land. There would have to be a
4 lot of public input as to whether or not they're going
5 to accept that as the water supply. It is not the
6 remediation technique. It's not the remediation
7 solution. It's a water supply solution. We could
8 drill new wells.

9 When the San Jose Superfund site in the
10 South Valley -- they damaged and destroyed several
11 wells down there. We replaced those wells with
12 alternative wells in different locations. That could
13 be another alternative strategy. We could wellhead
14 treat and then reinject the water back into the
15 aquifer. That's often used as a remediation technique
16 to push the contaminated water towards the remediation
17 technique, the pumpetry, whatever you do, and you
18 could inject from the backside and help force that
19 pressure towards the -- there's a lot of alternatives
20 that could happen, but remember, we're talking about
21 the water supply, which is why we're so concerned
22 about not just the wells but what's going to happen
23 beyond the contamination.

24 And this contingency plan is intended to try
25 to plan for that well in advance, if you see the early

1 warning systems in there, well in advance of it
2 getting to our wells.

3 COMMISSIONER HART STEBBINS: Thank you. I
4 appreciate that explanation. That was not clear.

5 And let me just ask one more question. Can
6 you answer my question about -- in this resolution, we
7 do have language that says: We request Kirtland to
8 submit0 a work plan for an aggressive final remedy for
9 cleanup of the spill, the vadose zone and the
10 groundwater by December 31st, 2013.

11 Is that not already covered by the
12 performance-based contract awarded to Shaw?

13 MR. STOMP: Mr. Chair and Commissioner Hart
14 Stebbins, my understanding is NMED has placed a
15 scheduled deadline on them to submit that plan. We're
16 asking them to do it a year in advance of that
17 scheduled deadline by NMED.

18 Shaw's performance-based contract is to get
19 a remediation plan in place by some certain date, of
20 which I wish I knew that exact date off the top of my
21 head, but I don't.

22 But I believe what we're saying is: We
23 believe you have enough technical information with
24 this information and the future wells that you're
25 going to be drilling to develop this plan a year in

1 advance.

2 If that's not in Shaw's performance-based
3 contract, we're hoping that Kirtland and the Corps of
4 Engineers would support, along with NMED, would
5 support that effort because we need to move quicker.
6 I mean, this contingency plan is to protect the water
7 supply, but the longer we wait, of course, the more
8 aquifer that's getting contaminated as we wait. So
9 we're saying let's go to the contingency plan, let's
10 get ready to look at the water supply, but then let's
11 also see if we can speed up to remediation plan, too.

12 COMMISSIONER HART STEBBINS: Great. Thank you,
13 John.

14 Thank you, Mr. Chairman.

15 CHAIRMAN SANCHEZ: CAO Perry.

16 MR. PERRY: Thank you, Mr. Chairman.

17 And thank you, Mr. Stomp, for that
18 explanation. I support the resolution on the floor
19 substitute and I certainly applaud Commissioner De La
20 Cruz's effort to come up with this particular
21 direction and statement of policy by the board.

22 For quite some time we've heard folks from
23 the community take the time out of their lives to
24 become knowledgeable, get educated and engage in this
25 issue. And they certainly have the right and I

1 applaud them for doing so as well. And it is
2 difficult when folks have very lengthy technical
3 opinions about some of this stuff, and a lot of them
4 have the background to give that. And sometimes it
5 might seem that we're not listening loud enough.

6 But it's a very complex issue. And I think
7 this particular resolution is excellent policy by this
8 board to adopt because what it does is it deals with
9 the long term issue about trying to make a plan. And
10 we've heard presentations from New Mexico
11 Environmental Health division in EPA, and this board,
12 as well as I hope a lot of the folks that are
13 interested in this, understand that this is a long
14 term project; that the regulatory process itself as
15 far as what takes place from the regulators at the
16 state and the federal level involve a very extensive
17 protracted process. And right now we're in
18 characterization; the next step is remediation.

19 And I hear people say, "Well, I'm not so
20 sure that vapor extraction is the right approach, if
21 pump and treat is the right approach," and the like.
22 And I don't think anybody is sure. Because those
23 particular opinions are subject to scientific and
24 engineering opinions. And I think the process itself
25 is a pretty good process to get the technicians with

1 the expertise and the regulators with the expertise to
2 review the proposals that are submitted by the
3 polluter itself, Kirtland Air Force Base, the United
4 States Air Force, the user of the water, the water
5 utility authority, that's an aggrieved party, and to
6 try to come up with the best plan.

7 What this particular resolution does is it
8 brings about the policy seriousness of it, it sets
9 some timelines, it deals with the immediate problem
10 about emergency contingency planning. I think that
11 was an excellent addition, and the details of it have
12 been honed down. I appreciate Colonel Eddy coming
13 tonight and explaining the position of the Air Force
14 as it relates to that, Mr. Stomp explaining that
15 that's a water supply problem. It isn't a plume
16 problem.

17 I sit back so often and I hear legislation
18 that's proposed up here and the public trying to
19 understand it. And sometimes it's just -- it seems
20 unclear as far as what the actual issue is. And I
21 think that that approach, by trying to attack the
22 longer term plume problem, the regulatory overlay of
23 that, the fact that it's a long term problem, also
24 addressing the emergency contingencies that are
25 necessary is a good approach. That's good policy for

1 the water utility authority of Albuquerque and
2 Bernalillo County.

3 I support it. I think it's a judicious,
4 thoughtful response, and I appreciate the hard work of
5 Commissioner De La Cruz in it.

6 CHAIRMAN SANCHEZ: Thank you.

7 Commissioner Johnson.

8 COMMISSIONER JOHNSON: Thank you, Mr. Chair.
9 And I guess I'm going to echo -- I'm not even going to
10 echo. I'm just going to ditto some of those comments.
11 I, too, support this. I appreciate the work that
12 Commissioner De La Cruz put into this floor
13 substitute. And I also appreciate the work that we
14 put into the agreement.

15 I think the Air Force is coming to the table
16 and giving us some authority that we really didn't
17 already have. And this sets up some input, some
18 formal input into how this problem will be tackled and
19 be addressed.

20 And I also appreciate Commissioner De La
21 Cruz's inclusion of some of the other language from
22 Councillor Garduno's proposed resolution. I think
23 it's a good compromise. I think it's something we
24 should pass and now we have somewhere to go forward.
25 It at least provides us with a roadmap to how we're

1 going to work together with the Air Force. So I very
2 much appreciate his work. Thank you.

3 CHAIRMAN SANCHEZ: Thank you, Commissioner.

4 I have one comment. I will also be
5 supporting this floor substitute. I think it is
6 vital, it is important to the city.

7 One of the concerns that I have, Colonel
8 Lanning, is one of the things that we deal with is,
9 you know, we've got this serious, serious problem. We
10 see every two years we have a new colonel that comes
11 into Kirtland Air Force Base, and once the colonel
12 gets his hands wrapped around this issue, then they're
13 gone. So I hope with this MOU in place that if any of
14 you leave that we can continue on with this plan,
15 because I think it's vitally important. And that's, I
16 think, a big concern for this community and this
17 board, is we've seen colonels come and go. And it
18 would be nice if they would stay for a longer period
19 of more than two years, but it seems like two years is
20 the standard for the Air Force before they're gone
21 again.

22 But I think that you've done a good job in
23 working with the water authority, in working with this
24 board in trying to come up with a viable plan that is
25 going to -- that will be safe and be beneficial to

1 this community.

2 COL. LANNING: Thank you, Mr. Chair. And it is
3 a priority of my boss, Colonel John Kubinec, to make
4 sure that we have good continuity. That's one of the
5 reasons why he asked me to come down here in July,
6 when I had been on the job for about the week or so,
7 as one of the new colonels.

8 If all things transpire according to plan, I
9 will be here after he has departed in order to provide
10 that continuity and to make sure that his successor
11 gets a good handoff from me. We should have about 12
12 months of time in order to make sure that that
13 transpires. And we are committed to doing that, to
14 making sure that the base leadership has a good solid
15 understanding, a good working relationship with the
16 water utility authority.

17 I think it's been mentioned here before,
18 some discussions about authorities and who has the
19 ability to do a variety of things. And one of the
20 commitments that we have at Kirtland Air Force Base is
21 to strengthen our ties with the water utility
22 authority, and this memorandum of agreement is one of
23 the ways that we are trying to do that to make sure
24 that we recognize the importance of the water -- the
25 owner of the end product as we try to deal with our

1 pollution problem.

2 CHAIRMAN SANCHEZ: Thank you, Colonel.

3 Any other questions?

4 Commissioner De La Cruz to close.

5 COMMISSIONER DE LA CRUZ: Thank you, Mr.

6 Chairman. I want to thank everyone for the kind
7 comments. But more importantly, I want to thank staff
8 for partnering with me in this resolution. It takes a
9 small village, and so thank you. And I urge approval.

10 CHAIRMAN SANCHEZ: We have a motion and a second
11 for R-12-13 as substituted. All those in favor,
12 signify by saying yes.

13 ALL MEMBERS: Yes.

14 CHAIRMAN SANCHEZ: Opposed, no.

15 That carries unanimously.

16 (6-0 vote. Agenda Item 9A approved.)

17 CHAIRMAN SANCHEZ: The next item is Item B,
18 R-12-14. Councillor Garduno is not present this
19 evening so he asked that I defer this item. I move
20 deferral until the next meeting.

21 COMMISSIONER DE LA CRUZ: Second.

22 CHAIRMAN SANCHEZ: We have a motion and a second
23 by Commissioner De La Cruz. Any questions?

24 Seeing none, all those in favor, signify by
25 saying yes.

1 FOUR MEMBERS: Yes.

2 CHAIRMAN SANCHEZ: Opposed, no.

3 TWO MEMBERS: No.

4 That carries on a 4 to 2 -- 5 (sic) to 2
5 vote.

6 (4-2 vote. Agenda Item 9B deferred, with
7 Mr. Perry and Councillor Jones voting no.)

8 CHAIRMAN SANCHEZ: The next item is Item C,
9 R-12-15, and to make that presentation will be Frank
10 Roth, and this is authorizing and approving submission
11 of the completed application for financial assistance
12 and project approval to the New Mexico Finance
13 Authority for the Carnuel water system improvements
14 project.

15 Go ahead and proceed.

16 MR. ROTH: Mr. Chairman, Members of the Board,
17 this resolution authorizes the water authority to
18 submit an application for financial assistance to
19 construct Phase 3A of the Carnuel water improvement
20 project in the amount of about \$2 million. This will
21 extend distribution lines in the high priority area of
22 the community of Carnuel.

23 CHAIRMAN SANCHEZ: Are there any questions?

24 COMMISSIONER DE LA CRUZ: Move approval.

25 CHAIRMAN SANCHEZ: Seeing none, we have a motion

1 and a second. Any questions? All those in favor,
2 signify by saying yes.

3 ALL MEMBERS: Yes.

4 CHAIRMAN SANCHEZ: Opposed, no.

5 That carries unanimously.

6 (6-0 vote. Agenda Item 9C approved.)

7 CHAIRMAN SANCHEZ: Next item on the agenda is
8 R-12-16. And to make that presentation will be John
9 Stomp. And that is authorizing the water utility to
10 submit an application for WaterSMART grant financial
11 assistance for the southwest side municipal effluent
12 reuse project. Proceed.

13 MR. STOMP: Mr. Chairman and Members of the
14 Board, this is a resolution authorizing us to submit a
15 grant application for Title 16 funding. We used to
16 receive line item appropriations for Title 16. There
17 are no more line item appropriations. We now have to
18 apply for the funding.

19 We had a \$20 million limit. We've received
20 18.2 million. We're asking for -- I'm sorry, 17.2
21 million. We're asking for another \$1.8 million --
22 18.2. Sorry about my math. We're asking for another
23 \$1.8 million to reach the \$20 million ceiling we have
24 for our reuse and reclamation projects.

25 CHAIRMAN SANCHEZ: Are there any questions?

1 COMMISSIONER JOHNSON: Move approval.

2 CHAIRMAN SANCHEZ: Move approval. We've got a
3 motion and a second for R-12-16. All those in favor,
4 signify by saying yes.

5 ALL MEMBERS: Yes.

6 CHAIRMAN SANCHEZ: Opposed, no.

7 That carries unanimously.

8 (6-0 vote. Agenda Item 9D approved.)

9 CHAIRMAN SANCHEZ: Next item is Item E, C-12-28.
10 This is approving the 2013 federal legislative
11 priorities. Mr. Sanchez.

12 MR. SANCHEZ: Mr. Chairman, Members of the
13 Board, our recommendation would be -- as John just
14 mentioned, there's a \$20 million cap under what's
15 called Title 16. If we're successful in this grant
16 application, we will have reached our cap, which means
17 we will no longer be eligible for a 25 percent federal
18 match for projects going forward. So our first
19 priority would be to request that our federal
20 delegation propose that we get a new \$20 million
21 authorization for eligibility for Title 16.

22 There's two major projects we have in the
23 future and their reuse projects. One would be
24 adjacent to Kirtland Air Force Base and Mesa del Sol,
25 and the other would be at the bosque site, which is

1 Coors and Montano.

2 Carnuel is an ongoing request federally,
3 simply having USDA loosen up the regulations to allow
4 an existing awarded grant of \$2 million to go forward.
5 We're also including, based on public comment, support
6 for appropriations for the continuation of the
7 Kirtland Air Force Base cleanup and remediation, and
8 also the Sandia National Laboratories restoration
9 activities with regard to the mixed-waste landfill.

10 We also suggest that we continue to support
11 the Endangered Species Act collaborative and continue
12 to press forward with being allowed to store native
13 water at Abiquiu Reservoir.

14 I'd stand for any questions.

15 CHAIRMAN SANCHEZ: Are there any questions?

16 I move approval of C-12-28.

17 COMMISSIONER JOHNSON: Second.

18 CHAIRMAN SANCHEZ: We have a motion and a
19 second. All those in favor, signify by saying yes.

20 ALL MEMBERS: Yes.

21 CHAIRMAN SANCHEZ: Opposed, no.

22 That carries unanimously.

23 (6-0 vote. Agenda Item 9E approved.)

24 CHAIRMAN SANCHEZ: Our next item is Item F, it's
25 C-12-29. That is approving 2013 state and legislative

1 priorities. Mr. Sanchez.

2 MR. SANCHEZ: Mr. Chairman, Members of the
3 Board, our first recommendation is that we seek -- and
4 this is an ongoing one -- \$750,000 in state funding to
5 begin kind of the environmental studies in permitting
6 for the bosque reuse facility. That is the highest
7 priority reuse facility we have next in line in our
8 capital program.

9 The second one would be -- as you recall, we
10 recently received an NPDES permit for our continued
11 discharge from our wastewater facility. EPA, in their
12 approval, cited us for not having the ability to
13 enforce. So one of the things that is lacking when
14 the water authority was transferred from the City of
15 Albuquerque as a municipality is this enforcement
16 provision. So we're simply seeking legislative
17 approval in the municipal code to add the water
18 authority to have these enforcement powers for
19 violations with regard to that permit to comply with
20 EPA's requirements.

21 Secondly -- or thirdly, actually, the
22 science and technology telecommunications interim
23 committee is likely going to be proposing legislation
24 to seek more involvement of the water authority with
25 regard to the Kirtland Air Force Base issue to be

1 included with the environment department and Kirtland
2 Air Force Base. This would simply have us take the
3 position of not initiating action, but not opposing
4 that legislation. Senator Keller, as I understand it,
5 plans to propose this bill.

6 The next item is continued support --
7 funding support for aquifer storage and recovery. The
8 next item would be continuing to seek state funding
9 for the Carnuel project. And the last item would be
10 to continue to support water planning. The mid region
11 council of government passed a resolution and asked
12 all of its member agencies to support this item.

13 I'd stand for any questions.

14 CHAIRMAN SANCHEZ: Are there any questions?

15 I'd like to move approval of C-12-29.

16 MR. PERRY: Second.

17 CHAIRMAN SANCHEZ: We have a motion and a
18 second. All those in favor, signify by saying yes.

19 ALL MEMBERS: Yes.

20 CHAIRMAN SANCHEZ: Opposed, no.

21 That carries unanimously.

22 (6-0 vote. Agenda Item 9F approved.)

23 CHAIRMAN SANCHEZ: Next item is other business.

24 The presentation on the status of U.S. Department of
25 Energy, Sandia National Laboratories environmental

1 restoration activities. And to make that presentation
2 will be David Miller.

3 Welcome, Mr. Miller.

4 MR. MILLER: Thank you. And thank you for
5 providing this opportunity to come and speak with you
6 this evening.

7 Again, I'm David Miller. I manage Sandia's
8 environmental remediation program and have
9 responsibilities for our groundwater protection
10 programs. I'll provide a quick overview of the
11 environmental restoration operations. Our mission is
12 to identify, characterize and remediate hazardous
13 and/or radioactive waste management sites where waste
14 may have been released as a result of legacy
15 activities.

16 The program was initiated in 1989.
17 Initially, there were 314 sites identified at Sandia
18 property. And we have successfully closed out 279 of
19 those sites. Those have gone through the State of New
20 Mexico Environment Department regulatory authority
21 approval process. And we're currently addressing the
22 remaining 35 sites.

23 DOE and Sandia are in full compliance with a
24 compliance order on consent that was initiated with
25 the State of New Mexico Environment Department, as

1 well as other federal and state regulatory
2 requirements. Out of the remaining 35 sites, 23 of
3 these sites have undergone characterization and/or
4 remediation, are in the regulatory closure process
5 right now. The documentation for that has been
6 submitted to the state, NMED, and those sites are out
7 for public review right now.

8 We also have three active mission sites
9 where the remediation would be deferred on those after
10 the active operations were concluded. We have our
11 mixed-waste landfill that the public has talked about
12 a little bit this evening; and we have five soil sites
13 that are currently undergoing groundwater
14 characterization activities; and then finally, three
15 sites where there's small amounts of low level
16 contamination that are currently undergoing site
17 assessment activities. And I'll get into some detail
18 around those.

19 Now, out of the 23 sites that are undergoing
20 closure right now, these consist of septic systems and
21 drain fields and surface testing area. They under
22 went characterization or remediation, had been
23 proposed and are currently being proposed for closure.
24 They here in public review right now. I'd identified
25 a public comment period to end in November, but as of

1 last week, the state extended the public comment
2 period an additional 90 days. So we're working
3 through that public comment period right now. Any
4 unresolved issues for these sites will be addressed
5 through the revision of Sandia's RCRA operating
6 permit. They're an amendment to the operating permit
7 and will go through a public hearing associated with
8 that. We also have the three active mission sites,
9 those are two sled tracts and a gun facility, that
10 will be remediated after those operations are
11 concluded.

12 To kind of focus us into where our
13 groundwater site assessment areas are, you all know
14 generally where Sandia is. We're collocated on
15 Kirtland Air Force Base. We are a tenant to Kirtland.
16 And within that, we have three known areas of
17 groundwater contamination. To the north is the main
18 tech area, and adjacent to that is Tijeras arroyo.
19 We're doing an assessment there. South of Tech Area 1
20 is Tech Area 3 and collocated with that is Tech Area
21 5. And in Tech Area 5, there's an area of
22 contamination we're assessing. Within Tech Area 3.
23 There's the mixed-waste landfill and the chem waste
24 landfill that I will talk about. And up further east,
25 up close to the edge of the Manzano Mountains is the

1 burn site, and I'll summarize a little bit of the work
2 that we're doing out at the burn site.

3 Now, our general groundwater conditions at
4 Sandia, the groundwater exists in two general regimes.
5 We have the basin and fill aquifer that's out closer
6 to the Rio Grande River, and a bedrock aquifer that is
7 up closer to the mountains. Depths to groundwater is
8 a hundred feet closer to the mountains, and about 500,
9 550 feet out in our tech areas. There's also a perch
10 groundwater system at approximately 300 feet in and
11 around Tijeras Arroyo.

12 The natural flows from the mountains but
13 because of the water supply wells and the northern
14 north of Kirtland Air Force Base in the city, the
15 groundwater flows then to the north. The water table
16 generally falls 1 to 2 feet per year, but in the
17 northern part of the base, that recharge is starting
18 to come up due to the slower pumping associated with
19 the Ridgecrest well field. We have minimal recharge
20 from rainfall, except in the areas near the mountains.
21 And there's slow flow rates generally on the base, 1
22 to 2 feet a year, except towards the west end of the
23 base, and there's an area where it can flow faster
24 than that.

25 So this map, just to show a quick diagram,

1 are locations of wells across the base and at Sandia.
2 The blue wells are wells owned and operated and
3 managed and sampled by Sandia. The red are those
4 sampled by Kirtland. Not all that represents one
5 well. Some of those are clusters of wells with three
6 or four wells in a particular location.

7 We have a groundwater protection program,
8 and the purpose of that is to determine any impact of
9 the general site operation activities, mainly around
10 the boundaries, something that's not associated with a
11 particular site. And the data that collected from
12 that, those wells, as well as all other wells that we
13 sample during the year, is documented in the annual
14 groundwater report that's provided to the state, NMED
15 Hazardous Waste Bureau, and it's publicly available on
16 their website, as well as in the Zimmerman Library.

17 So the wells associated with the groundwater
18 protection program are shown in this diagram. It's a
19 fewer subset than those that were generally shown on
20 the first diagram. And then I'm going to move more
21 specifically into some of the sites that we are
22 currently actively doing groundwater assessment and/or
23 have done remediation at.

24 The first I'd want to say is that Sandia has
25 never been opposed to doing the right thing when it

1 comes to remediating a site. And we have remediated
2 five landfills in their entirety, removing all the
3 contents of the landfill, disposing of the waste, and
4 getting closure on those sites. An example of that is
5 our chem waste landfill. It was almost a two-acre
6 landfill. It was operational from the early '60s to
7 the early '90s.

8 In 1990, TCE was discovered underneath the
9 landfill and proactively and voluntarily, we installed
10 a vapor extraction system, pulled the TCE vapors off
11 of the groundwater, and then, after that was
12 concluded, put in a passive vapor extraction system
13 that's currently in place today. But we also knew
14 that there was a remaining source term there, so we
15 proactively removed all the contents of the landfill,
16 built an engineered design disposal cell, treated the
17 waste and disposed of the treated waste into the
18 corrective action management unit, as it's referred
19 to, where those wastes are now in place and it's
20 actively monitored.

21 We currently are regulated under
22 post-closure care permit for the chem waste landfill.
23 We have five soil vapor monitoring wells and four
24 groundwater monitoring wells that are installed as
25 part of that long term monitoring program, that

1 included public input to determine where these well
2 locations should be and the final closure for it.

3 What I'm showing here is, in the lower
4 left-hand corner is our active remediation when it was
5 ongoing, some of the waste being segregated out of the
6 debris while they were undergoing the remediation, and
7 then at the top, how the landfill looks right now,
8 with an at-grade vegetative soil cover placed over it,
9 that is monitored for ensuring that we have native
10 vegetation growing over the landfill surface and then
11 the monitor wells around it.

12 Now, our mixed-waste landfill, this is one
13 that has a lot of public interest. It's a 2.6-acre
14 landfill. It was operational from the late '50s to
15 the late '80s. Groundwater monitoring field
16 investigations began in 1990, and as a result of those
17 investigations, we proposed a closure plan for the
18 landfill. And back in 2004, there was a public
19 hearing, with a hearing officer, that was sponsored by
20 the State of New Mexico Environment Department. The
21 hearing officer issued a final order in 2005,
22 selecting our recommended remedy, which was to install
23 an evapotransporative cover, and the state asked us to
24 also install bio intrusion layer at the base of the
25 landfill cover. And after challenges through the

1 courts, including the state supreme court, that
2 decision was upheld and we then installed the cover in
3 2009. There are seven groundwater monitoring wells
4 around the landfill, and currently, there are no
5 constituents of concern that have been identified in
6 those wells above regulatory standard.

7 Now, I will say, some folks will say, "Well,
8 you have groundwater contamination out there." The
9 reason that that comes up is that initially, the
10 process to install monitor well, which uses stainless
11 steel screen that over time corrodes and through that
12 corrosion process, you will identify nickel and
13 chromium in your groundwater wells, we identified that
14 and the state asked us to replace those wells, which
15 we have done. And since those replacements with PVC
16 wells, we've not identified chrome or nickel in those
17 wells.

18 There's also a concern that comes up that
19 we're not monitoring the right water. Well, the wells
20 are installed at first water below the landfill, where
21 that's been identified. So the depth of the wells are
22 identified in agreement with the state regulatory
23 agency. Now, there are folks that will ask us who
24 want to install wells deeper in the regulatory -- in
25 the regional ancestral Rio Grande, but that's not

1 where first water lies, so that's where our wells are
2 currently installed. Now, if the water drops below
3 that level, our next set of wells will probably be in
4 the ancestral Rio Grande.

5 So right now where we are with the
6 mixed-waste landfill is, last year we prepared a long
7 term maintenance and monitoring plan. It's been
8 submitted to the state and they have it out for public
9 review. The public comment period I've noted to be in
10 November, but last week the state agreed to an
11 extension of 30 days for that. So in the December
12 time frame, all public comments will be received on
13 the long term maintenance and monitoring plan for the
14 MW well. And we'll go forward working with state on
15 getting closure to that in FY13.

16 Here we show a picture of the landfill as it
17 is today. I believe at the last meeting there was a
18 question about why is there an irrigation system over
19 the landfill right now. The reason for that is, we
20 need to establish a native vegetative cover on the
21 landfill. If it were left as is in our drought
22 condition, we would have species like Russian Thistle
23 and sagebrush, deep-rooted plants establishing
24 themselves there. We don't want those. We want
25 native grasses. So we're watering it just solely to

1 get the native grasses established, and then that
2 system will be pulled out once it's established. And
3 we have biologists that go out and actually physically
4 remove nonnative species if they're identified there.
5 And then I have a schematic of the five-foot depth
6 landfill cover, with the bio intrusion barrier, about
7 three and a half feet of very compacted soil, with a
8 foot of relatively loose soil.

9 The whole idea of the vegetative cover is
10 that any rainfall that will fall on it will be
11 absorbed by the plants growing on the landfill and
12 then evaporating out, not allowing any rainfall to
13 migrate down through the cover or into the trenches,
14 the subtrenches. And technically, this was the
15 correct solution, we felt, for long term remedy at the
16 landfill given the types of wastes that were there and
17 the fact that it had not migrated. It was essentially
18 a dry disposal landfill, other than a release of water
19 at one time that pushed tritium down to about 100
20 feet. Groundwater is at 500 feet. We're assessing
21 that.

22 So anyway, onto our three areas of
23 groundwater contamination. The first is the burn
24 site. That's out at the base of the mountains.
25 Groundwater has been monitored since 1996.

1 Groundwater there is 100, 200 feet, about 189, in a
2 fractured bedrock system. There's currently ten
3 groundwater monitoring wells. We have nitrates
4 identified in six of those wells and perchlorate in
5 one well. Perchlorate does not have a regulatory
6 standard, but the state has asked us to monitor it if
7 we see levels greater than 6 parts per billion. The
8 highest that we've seen out there is 9. And our
9 nitrates, we've seen up to 37 parts per million. It's
10 a relatively small plume, and it's nine miles away
11 from a drinking water source. And we have wells down
12 gradient to the site itself to identify if anything
13 migrated off site.

14 Now, our current plan is that we are
15 submitting a corrective measures evaluation report at
16 the end of next calendar year, at the ends of FY13.

17 This is a picture at the site. Again, right
18 at the base of the mountains. Wells around the
19 perimeter and in the middle of the landfill, and then
20 leading away from the -- or from the site down to the
21 canyon.

22 Our next site is Tijeras Arroyo. That's up
23 adjacent to Tech Area 1, the main laboratory tech area
24 for Sandia. Groundwater has been monitored since
25 1992. The groundwater actually occurs at 300 feet,

1 because it's a perched groundwater system. It's
2 anthropogenic, it was manmade. And then groundwater,
3 again, is 500 feet below. So we have a 200-foot
4 buffer there between the perched and the regional
5 system.

6 Overall Tijeras arroyo encompasses a rather
7 large area, 40 square miles. However, Sandia's
8 responsibility around that is two square miles. Per
9 the request of the NMED, they've asked us to do the
10 assessment of the perched groundwater system. There's
11 contamination in five of the wells with nitrates, and
12 one well has TCE. The highest level of nitrates is
13 33. TCE is up to 9. And the drinking water standard
14 for TCE is 5.

15 The suspected source is old and inactive
16 waste discharge systems. And we're also working --
17 we're assessing data right now, and we'll be
18 submitting a corrective actions report to the NMED in
19 calendar year '14. Our last area -- and this shows a
20 picture of where the wells are located that we use to
21 assess the groundwater in Tijeras Arroyo.

22 And then this diagram shows in pink speak is
23 the perch system, that area in which Sandia is
24 assessing. Now, actually, that perch system flows
25 across gradient to the regional flow. It is flowing

1 from the north to the southeast, whereas the regional
2 flows from the southeast to the northwest.

3 Our last area of groundwater contamination
4 is Tech Area 5. It's on the north end of Tech Area 3.
5 And we've monitored the groundwater there since 1992.
6 Again, 500 feet is the depth of groundwater. It has
7 the highest level of TCEs that we've identified in any
8 of our site characterizations, up to 19 parts per
9 billion, and there's also nitrates in the area. It's
10 a relatively small plume. It's four miles away from
11 any production or drinking water source. And we have
12 16 wells that we monitor and three soil vapor
13 monitoring wells that are used as part of the
14 assessment of this site. We will be submitting a
15 corrective measures report in FY14 on this.

16 This diagram shows the extent of the TCE
17 under Tech Area 5. The black line identifies the
18 boundary of the tech area, the TC plume and the round
19 contours. And the next one is the nitrate plume above
20 the drinking water standard. Again, relatively
21 limited to just the tech area itself.

22 So we also have some miscellaneous solid
23 waste units, management units, that we had done
24 assessment at, had characterized, identified no
25 surface soil contamination. Or if there was, it had

1 been cleaned up and remediated to clean closure. But
2 during the public comment period on the closure
3 process for these five sites, the public had asked the
4 state for Sandia to do groundwater assessment at those
5 locations.

6 So we agreed of course and we went out and
7 have installed wells at these five locations that are
8 outside of any of the tech areas that we have. And as
9 part of that assessment, which we're in the middle of
10 right now, one of those sites, an explosive test area,
11 we identified fluoride above the drinking water
12 standard. However, there are fluoride mines adjacent
13 to the site in the mountains, so we believe that's a
14 naturally occurring occurrence.

15 We also had septic systems and a former burn
16 site where we've not identified any contaminants above
17 the drinking water standard, and one site where we
18 have seen a trace amount of an explosive that has no
19 regulatory standard, but it's less than one part per
20 billion, but we're assessing that. And that well also
21 has arsenic in it slightly greater than the regulatory
22 standard. And we believe that also is probably a
23 natural occurrence, but we'll be doing more assessment
24 around that, and we'll be monitoring these wells for a
25 minimum of two years prior to submitting a corrective

1 measures evaluation.

2 So, key points and summary with our
3 groundwater: The contamination levels are typically
4 very low and/or just above regulatory standards. The
5 contaminants are most commonly nitrates and TCE. The
6 sites are generally well characterized. They
7 certainly do not pose a threat to the city or
8 Bernalillo County drinking water wells. And our
9 groundwater protection program and our ER operations
10 will continue to characterize and monitor the
11 groundwater for as long as necessary per the
12 requirements of the State of New Mexico Environment
13 Department.

14 And then in summary, for our ER operations,
15 it's been a very successful program. We've done a lot
16 of work and we've not hurt anybody. That's most
17 important. And we're working towards closure on all
18 of our sites. We're in full compliance with state and
19 federal requirements, as well as any requirements
20 which the NMED requests us to follow.

21 And we're fully funded. We have been for 20
22 years. We didn't to be for FY13. And we anticipate
23 being for the foreseeable future. We have a foreseen
24 closure date for our remediation program by 2020. And
25 that's mainly to deal with groundwater sites.

1 After that, there's a separate program
2 that's currently in place that takes over the long
3 term maintenance and monitoring activities that's
4 separate to the ER operations. But there is a long
5 term commitment towards particularly groundwater
6 operations.

7 So thank you for your time and I would be
8 happy to answer any questions you may have.

9 CHAIRMAN SANCHEZ: Commissioner De La Cruz.

10 COMMISSIONER DE LA CRUZ: Thank you, Chairman.

11 Mr. Miller, what do you think is the most
12 troublesome type of material that is either in the
13 landfill or the other contaminated sites?

14 MR. MILLER: In the landfill meaning the
15 mixed-waste landfill. Well, there's radioactive
16 materials there. I mean, those are certainly items
17 that I would not want my personnel to be exposed to.
18 Not that we couldn't, but it would pose what we felt
19 was more danger to the individuals and to the public
20 than what was of value added by leaving the materials
21 in place.

22 Over time, those materials would degrade to
23 a less hazardous material. And during a five-year
24 re-evaluation period, maybe the decision would be that
25 there would be a better either technical solution or a

1 safer path forward, with a forward in which some of
2 the wastes that currently do not have a legal way of
3 -- path for disposal, that we would have a path for
4 disposal.

5 COMMISSIONER DE LA CRUZ: So you're saying that
6 at this time it is safer to leave it there than to try
7 to remove it?

8 MR. MILLER: Yes, sir.

9 COMMISSIONER DE LA CRUZ: But there may be a
10 different option in the future?

11 MR. MILLER: Yes.

12 COMMISSIONER DE LA CRUZ: Who verifies the
13 information coming out of your monitoring wells? I
14 mean, you have the data. Who else has that data?

15 MR. MILLER: Right. The State of New Mexico
16 also has a separate agency, the oversight bureau, who
17 is located at Kirtland, or at Sandia facilities, and
18 they collect split samples with us. And their data is
19 compared to the data which we collect. But there's
20 also a very, very extensive quality control process,
21 both in how we collect the data, how we ship the data,
22 our laboratory processes, all the labs are qualified,
23 as well as a verification process for the data once
24 it's received prior to reporting the data to the
25 state.

1 COMMISSIONER DE LA CRUZ: Is this available to
2 the public?

3 MR. MILLER: Yes. All the data is -- one last
4 slide. If you go to the website, it shows the New
5 Mexico Public Reading Room, all our documentation is
6 located there. And all our documentation is placed in
7 Zimmerman Library for public review.

8 COMMISSIONER DE LA CRUZ: What is the -- if
9 you're aware, what is the oldest hazardous material in
10 any of the sites?

11 MR. MILLER: Well, Sandia began operations in
12 1994 as a subdivision of Los Alamos, so that's when
13 operations began, and I'd have to say that's when, you
14 know, work started.

15 COMMISSIONER DE LA CRUZ: So there's some nasty
16 stuff as old as that?

17 MR. MILLER: Well, there's -- you know, it's a
18 relative term when we say "nasty stuff." I would say,
19 you know, when I was a kid, I played with nasty stuff,
20 mercury and things like that, you know.

21 COMMISSIONER DE LA CRUZ: Any reasonable might
22 think.

23 MR. MILLER: Those things could, you know, more
24 likely be in many landfills across this country, not
25 just, you know, on an Air Force base or with the

1 national laboratory.

2 COMMISSIONER DE LA CRUZ: Well, let me restate
3 that. Any reasonable person might conclude that this
4 is extraordinarily hazardous material.

5 MR. MILLER: Risk is a relative term. I would
6 say we treat our stuff with great respect. We
7 characterize it, we will remediate it, and we will
8 manage it according to all regulatory laws and
9 oversight that we need to follow and want to follow.

10 COMMISSIONER DE LA CRUZ: Thank you, Mr.
11 Chairman.

12 CHAIRMAN SANCHEZ: Commissioner Hart Stebbins.

13 COMMISSIONER HART STEBBINS: Thank you, Mr.
14 Chairman.

15 Just one quick question. I'm looking at the
16 map of the Tijeras Arroyo contamination. Where is
17 that relative to the Eubank well field?

18 MR. MILLER: Eubank well field I do not know.
19 So we would be going into here -- I'm sorry. I don't
20 know the answer to your question Eubank well field.

21 COMMISSIONER HART STEBBINS: You know what I'll
22 do, I'll submit this question in writing. How would
23 that be? And then just ask it later.

24 MR. MILLER: That would be great. We'll get an
25 answer for you.

1 COMMISSIONER HART STEBBINS: Thank you.

2 MR. MILLER: You bet.

3 CHAIRMAN SANCHEZ: Are there any other
4 questions?

5 Mr. Miller, thank you for your time and your
6 presentation.

7 MR. MILLER: Thank you.

8 CHAIRMAN SANCHEZ: The next item on the agency
9 is Item B. It's the New Mexico Environmental
10 Department presentation on detection of solvents below
11 Elder Homestead. And to make that presentation will
12 be Jim Davis.

13 Welcome, Jim.

14 DR. DAVIS: Thank you, Mr. Chair, Members of the
15 Board.

16 Good -- I almost said good morning. It's
17 not good morning. It's good evening.

18 Thank you for the opportunity, again, Mr.
19 Chairman, Members of the Board, to come and address
20 you this evening. The title in the agenda is a little
21 misleading, I believe. I'm going to give you an
22 update on the Kirtland fuel spill, as we understand
23 it, and some very recent data that was collected that
24 I think is of particular importance to the board.

25 Current status, I think I was here in June,

1 if memory serves me, and we gave a presentation on the
2 status of the spill. And at that time we acknowledged
3 that we had a data gap in the northeastern corner or
4 northeastern extent of the fuel spill plume, if you
5 will, where we'd not yet been able to find the edge of
6 ethylene dibromide. So we directed the Air Force to
7 install additional wells in order to try to define
8 that northeastern extent of the ethylene dibromide.
9 Those wells were completed in October of this year.
10 They were developed, and they have been sampled.

11 We, the environment department, went with
12 the Air Force in this sampling and we took split
13 samples, and I'll get to the results of those
14 momentarily. At the same time, in June I advised the
15 board that we were directing the Air Force to install
16 interim measures, specifically a soil vapor extraction
17 system. At that time they had completed two dedicated
18 six-inch diameter soil vapor extraction wells. Since
19 then, they have continued to work on the design of the
20 system. We expect that final system design to be
21 submitted to us literally momentarily.

22 The construction of the infrastructure
23 necessary to support that soil vapor extraction system
24 is ongoing, and the current estimate timeline from the
25 Air Force of when this will be up and running is right

1 at the end of the calendar year.

2 We've also talked to them about downhole or
3 in well treatment options that will get at the
4 dissolved phase of this contaminant plume air sparging
5 and air stripping downhole. And they're in the
6 process of putting together a plan to get that to us.

7 This is a cartoon, a diagram, of some of the
8 wells, and in particular, I would direct your
9 attention to the three new well clusters that are
10 labeled in the upper right-hand corner of this
11 diagram. Those were the wells that we directed the
12 Air Force to install in a effort to define or find
13 this northeastern corner of the EDB plume.

14 And each one of these clusters has three
15 wells in it. They're completed -- shallow well
16 completed at the regional aquifer. Elevation, an
17 intermediate well that's completed 50 or so feet into
18 the water, and a deep well that's completed 100 or so
19 feet into the water.

20 This is a repeat of a slide you saw in June.
21 It just has a numeric or water quality standards for
22 ethylene dibromide, benzene, tolulene and xylenes.

23 This slide comes from the Air Force's second
24 quarter report of this year, showing ethylene
25 dibromide concentrations in wells north of Gibson

1 Boulevard, and the wells are labeled. You can see the
2 data on the screen. Not all wells obviously have
3 detections of EDB, but the ones that do are labeled on
4 the screen accordingly.

5 And we also have the production wells on
6 this slide, which is important in terms of orienting
7 yourself. We have the Kirtland Air Force Base well,
8 which is immediately adjacent to one of the new
9 clusters, and then the diagram also shows Ridgecrest
10 Number 5 and Ridgecrest Number 3.

11 This slide shows EDB concentrations from
12 split samples that the environment department has
13 taken over a four-quarter period, first through the
14 fourth quarter of this year. We don't split samples
15 at every single well, nor do we split samples at every
16 single sampling event. We do it so that we can verify
17 and have confidence in the results that the Air Force
18 is reporting.

19 And what's particularly important in this
20 slide, Mr. Chairman and Members of the Board, is the
21 very preliminary results, and I'm going to say that
22 several times, but nevertheless, the results from the
23 three new well clusters that show non-detect for EDB
24 at all depths, in all wells of the nine recently
25 installed wells.

1 Now, I'm going to say that this is
2 preliminary data for a couple of reasons. First of
3 all, it's not yet been formally submitted to us by the
4 Air Force. It's not yet gone through its complete
5 laboratory quality assurance, quality control checks.
6 But we do have confidence in the results that we have
7 received from the split samples, with one very
8 important caveat, and that is that we continue to see
9 entrained air bubbles in the water samples when we
10 take them.

11 Now, this can, at very, very -- when you
12 have a volatile organic compound at very, very low
13 levels, right at the levels of the detection limits,
14 if you have air in the sample, that air can in fact
15 compromise the reliability of that sample. Because
16 what you're dealing with is volatile compounds that
17 can be stripped out by air. So we recognize this and
18 we want to get to the bottom of this. And we're
19 talking with the Air Force extensively about how to
20 address this issue of air bubbles in the samples.

21 But given that caveat, nevertheless, we do
22 feel confident that these results will hold and that
23 we will, over time, be able to say definitively that
24 we have drilled beyond the edge of the EDB plume,
25 which is good, because we needed to define that edge.

1 This slide actually shows some numeric data
2 that was in fact presented in the diagrams and
3 previous slides. All the values are in micrograms per
4 liter, and where we do have bubbles in the wells, we
5 indicate that with a B.

6 This next slide is a repetition, except that
7 it includes the nine newest wells in blue, Wells 201
8 through 209. Again, all undetect, but you can see
9 one, two, three, four, five of them did have doubles.
10 We sampled three of them twice in an attempt to reduce
11 the bubbles, to see if we could get better samples.
12 We weren't able to.

13 So gas bubbles in the water. Possible
14 causes. Could be natural, coming out of the
15 formation. If it was, it would most likely be CO2.
16 Obviously we could be having problems with the pumps
17 and the tubes that are down the wells. They could be
18 pulling air into them. And the drilling technique
19 that was used, we directed the Air Force to use air
20 rotary drilling. When you use air rotary drilling,
21 you inject air into the formation; that's how the
22 drill works. We've seen this same kind of thing at
23 Los Alamos National Labs in wells as deep as a
24 thousand feet, where we, again, have directed
25 Los Alamos to use air rotary drilling techniques

1 because we don't want to introduce drilling fluids,
2 muds or other things into the aquifer. So rather than
3 using drilling fluids, you use air. But air will --
4 air rotary drilling will inject air into the
5 formation. So what do you do if that's the case?
6 You've got to pump the wells. You just purge, purge,
7 purge until the air comes out.

8 A final possibility was a reaction with a
9 preservative in the bottles. We ruled that out
10 because we see bubbles in the tubing before it gets
11 into the sample bottle.

12 So we have asked the Air Force, we have
13 directed the Air Force to pursue this issue of bubbles
14 in samples, and they have proposed, and we saw the
15 draft today, a plan where they're going to propose to
16 use argon gas as their sampling gas, rather than
17 atmospheric air, so that if in fact there's a leak
18 going on somewhere in the pumps or the tubing, they
19 determine that by detecting argon. Alternatively, if
20 they detect something like CO₂, then it most likely is
21 a natural condition and there's nothing that can be
22 done about it.

23 And I'm not an expert in this regard, Mr.
24 Chairman and Members of the Board, so if you have
25 questions about the argon sampling techniques, I'm

1 going to defer that to other persons here in the
2 audience with me.

3 Now, about a month ago, Mr. Chairman,
4 Members of the Board, we made a presentation in front
5 of the interim committee on science and technology,
6 Senator Keller's committee. And at that time, we had
7 been alerted by the Air Force of a possible result of
8 contamination of tetrachloroethylene. Or PCE, and we
9 did issue a press release because we felt it necessary
10 to be completely transparent, even though we
11 recognized at the time that that information was
12 incredibly preliminary, and it was only a result of
13 the water that had been produced in the development of
14 the wells. We obviously wanted to pursue this very
15 vigorously. And that's why we did the sampling we did
16 during the month of November with the Air Force.

17 Now, this slide right here is from the
18 second quarter record that shows undetect at all wells
19 for PCE. The three new well clusters were put in and
20 they were sampled. And all of them, all three wells
21 at each of the locations or nine wells total, show
22 undetect for PCE. We have not been able to reproduce
23 those results accordingly. It is our conclusion,
24 again, with the caveat that these are preliminary
25 data, that they're going to want to sample more, we

1 going to want to confirm these results over an
2 extended period of time. But these preliminary data
3 right now indicate to us that in fact the PCE
4 detection, if you will, was a spurious detection. It
5 mostly occurred because of contaminated equipment in
6 the field, and we are not able to reproduce it with
7 water being extracted from the regional aquifer.

8 So, again, Mr. Chairman, Members of the
9 Board, with the understanding that these are
10 preliminary data, we are confident that there is no
11 PCE contamination in the aquifer.

12 Brief presentation, contact information.
13 I'd be happy to try and answer any questions.

14 CHAIRMAN SANCHEZ: Are there questions?

15 Commissioner Maggie Hart Stebbins.

16 COMMISSIONER HART STEBBINS: Thank you very
17 much, Mr. Chairman.

18 Thank you, Mr. Davis. So this is the
19 question everybody has, we've had for a long time. So
20 if these results hold up, the new well clusters
21 continue to show no contamination, you can feel fairly
22 confident that you have defined the dissolve phase?

23 DR. DAVIS: Mr. Chairman, Commissioner Stebbins,
24 that's correct. We would be -- yes.

25 COMMISSIONER HART STEBBINS: So then you would

1 move -- or the Air Force would move into the
2 containment phase? This has been an iterative
3 process, now we know the leading edge. The
4 containment phase, how much time do you expect that to
5 take now? What's the expected lag between? Okay.
6 Now we know where the contamination is. What's -- how
7 long until we get to the next step, where it's
8 actually no longer moving towards our wells?

9 DR. DAVIS: Mr. Chairman, Commissioner Stebbins,
10 that's an interesting question. I don't think the
11 plume is moving very much at all right now. I don't
12 think it has been for an extended period of time.

13 Once the source material is cut off, a
14 contaminant plume like this will continue to expand,
15 but it's reaches equilibrium relatively quickly. And
16 as long as you cut off the source, it will expand to
17 some point, but then it basically stops, and it moves
18 as a function of the movement of the regional
19 groundwater. But it's not continuing to push its way
20 through the aquifer.

21 That happens when you've got a continuous
22 source of contamination that is continuing to move
23 down. But ones that source has been cut off, there is
24 some -- still some movement through the subsurface,
25 but in a relatively short period of time, it reaches

1 more or less a dynamic equilibrium. And then it moves
2 only as a function of the groundwater movement.

3 COMMISSIONER HART STEBBINS: Okay. So you're
4 saying that now that the source has been cut off, you
5 expect that between the time it was cut off and now,
6 that most of that has percolated through the vadose
7 zone and won't be continuing to do that?

8 DR. DAVIS: Mr. Chairman and Commissioner
9 Stebbins, quite frankly, most of the contamination is
10 still in the vadose zone. It never made it to the
11 water. I can't give you a precise estimate, but it
12 might be as high as 75 percent of the total
13 contaminant mass that's still in the vadose zone, and
14 it's not going anywhere. It's going to stay there
15 until it's extracted.

16 So, you know, again, it's not moving at this
17 point in any rapid way whatsoever. It's more or less
18 stable.

19 COMMISSIONER HART STEBBINS: So our concern
20 about -- now that we know -- again, if this data holds
21 up, now that we know the edge, our concerns can be
22 alleviated about it ever reaching the well?

23 DR. DAVIS: Mr. Chair and Commissioner Stebbins,
24 I wouldn't go so far as to say that they would be
25 alleviated forever. But yes, I think this does give

1 us confidence that the probability that the water
2 production wells will be impacted by this contaminant
3 plume is relatively small.

4 COMMISSIONER HART STEBBINS: That is excellent
5 news. I think that's the news we've all been looking
6 for. Let's hope that that holds up and that is the
7 case.

8 I have a question for the water utility
9 staff. So under the MOA, we have agreed to sink what
10 you might call a sentry well. Where is that? So if
11 you look at the map of where the new clusters are,
12 where is that sentry well going to be sited?

13 MR. STOMP: Mr. Chairman and Commissioner Hart
14 Stebbins, we don't know. We're going to work with the
15 USGS in evaluating all the technical data to pick out
16 a spot that we feel like -- and there may be multiple
17 spots, because remember, the leading edge of the plume
18 is larger than just one spot.

19 COMMISSIONER HART STEBBINS: Right.

20 MR. STOMP: So we're going to be looking at all
21 of the regional aquifer information, because we have
22 to look at the groundwater movement as a whole. This
23 thing is going to move as the groundwater moves, and
24 so as the gradient changes over time, that groundwater
25 movement could change over time. So while it might be

1 moving north and east today, it might be moving due
2 north ten years from now, for example, because of the
3 changes in the aquifer. So you need to evaluate how
4 that's going to affect -- and you do modeling and you
5 can do other things. So we'll be siting that based on
6 the current information and predictions of what's
7 going to happen with the aquifer, and there may be
8 more than one.

9 So it could be between the existing wells
10 that they have now and the Ridgecrest wells, or it
11 could be a little bit closer to the Ridgecrest wells.
12 We don't know. But one thing we do know is that we
13 needed to have it far enough away, if that's possible,
14 department on where the leading edge is, so that we
15 have adequate time to implement whatever contingency
16 measures we have. So if that's five years to drill
17 new wells or whatever it is, we've got to make sure
18 that that distance of that monitoring well gives us
19 that adequate time to do it.

20 But I can't definitively say, because I
21 don't have information to say how that regional
22 aquifer is going to change the direction of that
23 plume. We know that it's already changed as a result
24 of pumping. And we've seen other changes in other
25 plumes over time.

1 COMMISSIONER HART STEBBINS: Would you agree
2 with Mr. Davis that this plume is not really moving at
3 a rate that should concern us?

4 MR. STOMP: Mr. Chairman and Commissioner Hart
5 Stebbins, I don't know what he's basing that
6 information on, but I do know that the regional
7 aquifer and the water -- and that the water table is
8 going to continue to move. So whether there's a plume
9 there or not, it's going to continue to move. So I
10 would say that the plume is probably going to continue
11 to move in the direction of the regional aquifer.

12 I think Mr. Davis said that. I'm not sure
13 he said it the way he probably wanted to say it. It
14 was a little bit confusing for me. But the regional
15 aquifer is going to be moving, and that plume will be
16 moving in the same direction as the regional aquifer.

17 COMMISSIONER HART STEBBINS: All right. Thank
18 you, Mr. Chairman.

19 CHAIRMAN SANCHEZ: Commissioner Johnson and then
20 CAO Perry.

21 COMMISSIONER JOHNSON: Thank you, Mr. Chair.
22 Mr. Davis.

23 DR. DAVIS: Whatever I said, I meant to say it.

24 COMMISSIONER JOHNSON: Well, I won't try and
25 tell you what you meant to say, even if I knew.

1 My quick question is, it doesn't look to me
2 like you've really found the leading edge yet. You
3 found out where it isn't at this point. You know it's
4 not as far northeast as the -- well, it's near
5 KAFB003, you know, it's not there. But like on your
6 northwestern edge over there, you've got a tight
7 cluster of wells that pretty well map out where you
8 know that edge is.

9 This doesn't seem like to be as tight of a
10 resolution. So what's the next step? Do you start
11 drilling monitoring wells back towards you believe the
12 plume is to do testing until you find it?

13 DR. DAVIS: Mr. Chairman and Vice Chair Johnson,
14 that's one potential thing that we could do, yes. We
15 were talking about it yesterday afternoon, that maybe
16 after another two quarters of sampling, we may in fact
17 direct the Air Force to drill some additional wells in
18 that intermediate area, if you will.

19 One of the things that's important to
20 understand is that yes, while we do think we have the
21 boundaries, if you will, on the north and south of
22 this plume relatively well defined, this is -- these
23 curves, or these lines on these diagrams are
24 interpolations. They're not exact and they never will
25 be. But yes, there could very well be in the future

1 additional wells put in, if you will, in this
2 intermediate area, a closer in to the plume, but in
3 order to attempt to define that better.

4 The other thing obviously that we want to do
5 is, as the soil vapor extraction unit comes online and
6 operates for a couple of quarters, all of these wells
7 will continue to be sampled on a regular basis, and we
8 want to see whether or not we affect the dynamic of
9 the plume by the soil vapor extraction. This probably
10 will not occur out this far very early. What we will
11 see is closer in towards the source of the spill we'll
12 begin to see reductions in the benzene, toluene,
13 ethyl benzene and xylene, the BTEX, the compounds
14 directly associated with the gasoline.

15 But, yes, your idea is one of the -- one of
16 the exact ideas we've been discussing about putting in
17 additional wells.

18 COMMISSIONER JOHNSON: And that's something to
19 be just determined over the next quarter or so or two
20 quarters?

21 DR. DAVIS: That's correct. I don't think that
22 there would be any purpose in drilling additional
23 wells right now, but there may well be three or six
24 months from now, yes.

25 COMMISSIONER JOHNSON: Have you noticed any of

1 the -- any reductions in any of the chemicals, the
2 BTEX thus far?

3 DR. DAVIS: Mr. Chair, no, sir, we have not.

4 COMMISSIONER JOHNSON: Because you've had some
5 soil vapor remediation, correct?

6 DR. DAVIS: There is ongoing soil vapor
7 extraction at a low volume, using internal combustion
8 engines. What we have seen is evidence of bio
9 degradation on the edges of the BTEX plume. Where the
10 concentration of the BTEX drops low enough, then soil
11 microbes will begin to utilize it as an energy source
12 and they will eventually degrade it to non-detect.
13 They use it completely up. We have begun to see some
14 evidence of bio degradation at the extreme edges of
15 the BTEX plume, which simply means it's been there
16 long enough for the soil microbes to start working on
17 it.

18 COMMISSIONER JOHNSON: So from your opinion at
19 this point, do you have enough information or
20 characterization of the plume to begin planning for a
21 remediation plan?

22 DR. DAVIS: Mr. Chair and Vice Chair Johnson,
23 yes, I believe so.

24 COMMISSIONER JOHNSON: Thank you.

25 CHAIRMAN SANCHEZ: Mr. Perry.

1 MR. PERRY: That was my question, a similar
2 question to that.

3 CHAIRMAN SANCHEZ: Are there any other
4 questions?

5 Seeing none, thank you, Mr. Davis.

6 We are now on Item C, and that is the
7 drought and water use update. And, Ms. Yuhas, do you
8 want to make that presentation?

9 MS. YUHAS: Thank you, Mr. Chair and Members of
10 the Board. I know you've been listening to a lot of
11 presentations this evening. It's been a long meeting.
12 I'm going to hit the highlights on these slides for
13 you.

14 These are slides that you have been looking
15 at on a monthly basis since we entered this drought.
16 We've been looking at them almost two years now,
17 unfortunately. This first slide is showing us that we
18 are still in severe drought in this region.

19 This next one is from the National Oceanic
20 and Atmospheric Administration, showing a persistence
21 of drought being predicted through the end of February
22 across, you know, most of the country, and certainly
23 all of New Mexico.

24 And this next graph that we're looking at is
25 the equatorial Pacific temperatures and the deviations

1 from that temperature. And up above the black line
2 that runs through the center of the graph are warmer
3 temperatures. Below that line are the cooler. When
4 we're up above, we're in El Nino conditions, and that
5 generates perhaps more moisture for us. And below is
6 the cooler temperatures that drive us into drought,
7 generally.

8 Last month when we were looking at this,
9 there were still some predictions that we would have
10 El Nino this winter. That has changed. We will not
11 be having an El Nino winter. We're going to be in
12 neutral conditions. This is a rare thing, to have El
13 Nino develop during the summer and then die out in the
14 fall. I don't know what that means for long term
15 drought, but certainly what it means for the
16 predictions for the winter are not good in terms of
17 moisture for us.

18 And the drought is expected to continue at
19 least through the end of May. And so what that means
20 for this board is that I will be back here on a
21 monthly basis reporting on the conditions and our
22 water use and perhaps in the spring, if it seems
23 appropriate, asking for adoption of some drought
24 management strategy methods so that our customers are
25 aware of the additional need to conserve during this

1 drought period.

2 But we always end with a little bit of good
3 news fortunately, and that is that despite the severe
4 drought, our customers are doing a good job. As of
5 the end of October, our customers had used about 200
6 million gallons less than for the same time period
7 last year. And that's -- they are to be so commended
8 for those efforts, because the second year of a
9 drought is even harder than the first one to get
10 through.

11 I expect that we will end the year about
12 where we wanted to, which was to use the same amount
13 of water that we did last year and maintain our GPCD
14 of 150 gallons per person, per day.

15 Thank you. If you have any questions, I'd
16 be happy to answer them.

17 CHAIRMAN SANCHEZ: Are there any questions for
18 Ms. Yuhas?

19 Thank you for your time.

20 If there's no further business before this
21 water authority, this meeting is adjourned.

22 (Proceedings adjourned.)

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1 STATE OF NEW MEXICO
2 COUNTY OF BERNALILLO

3

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