

ALBUQUERQUE BERNALILLO COUNTY  
WATER UTILITY AUTHORITY MEETING  
Wednesday, March 20, 2019, 5:04 p.m.

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

A P P E A R A N C E S

COMMISSIONER DEBBIE O'MALLEY, Chair (excused)  
COUNCILOR KLARISSA J. PENA, Vice Chair  
COMMISSIONER MAGGIE HART STEBBINS, Member  
COUNCILOR TRUDY E. JONES, Member  
COMMISSIONER STEVEN MICHAEL QUEZADA, Member  
COUNCILOR KEN SANCHEZ, Member  
MAYOR TIMOTHY M. KELLER, Member (excused)  
TRUSTEE PABLO RAEL, Member (excused)  
SARITA NAIR (alternate)

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

1                   VICE CHAIR PENA: Good evening. I will call  
2 this March 20th, 2019 meeting of the Albuquerque  
3 Bernalillo County Water Utility Authority to order.  
4 Commissioner O'Malley and Trustee Pablo Rael are  
5 excused. All other members are present, or should be  
6 shortly.

7                   Next item is the Pledge of Allegiance and  
8 moment of silence led by Commissioner Quezada.

9                   (Silence/Pledge of Allegiance)

10                  VICE CHAIR PENA: Thank you. Next item is  
11 Item 3, Approval of the Minutes. I make a motion to  
12 approve the February 27th, 2019 minutes. Is there a  
13 second?

14                  COUNCILOR JONES: Second.

15                  VICE CHAIR PENA: There's a motion and a  
16 second for approval. All those in favor say yes.

17                  MEMBERS: Yes.

18                  VICE CHAIR PENA: Opposed? No. Motion  
19 passes. Proclamations and Awards, we have none this  
20 evening. Next item is 5, Public Comment.

21                  Ms. Carreon, how many people do we have  
22 signed up to speak this evening?

23                  MS. CARREON: We have two. The first  
24 speaker is Kevin Bobick followed by Elaine Hebard.

25                  VICE CHAIR PENA: And I don't know if I need

1 to go through -- you have three minutes to speak,  
2 Elaine knows, everyone knows. Come on up.

3 MR. BOBICK: How's it going, Board Members?  
4 My name is Kevin Bobick. I was actually over in zip  
5 code 87109 today testing the fluoride levels and  
6 we're showing that level as between .25 and .58. So,  
7 yes, we're still fluoridating our water. I came to  
8 bring you guys reasons to stop fluoridating water.

9 One, fluoride causes cancer, known fact.  
10 I'm going to be leaving you guys with my resources  
11 again.

12 Two, the Delaney Clause incorporated into  
13 the Federal Food, Drug and Cosmetic Act by the Food  
14 Additives Amendment of 1958 requires the FDA to ban  
15 food additives which are found to cause or induce  
16 cancer in humans or animals, as indicated by testing.  
17 So if we're using this water to cook our vegetables,  
18 then technically, yes, you guys are breaking federal  
19 law by putting a known poison in our water.

20 Three, I have the right to informed consent  
21 to this one-size-fits-all known rat poison.

22 Four, okay, so putting sodium fluoride on  
23 your teeth topically may or may not be good for your  
24 tooth decay. Ingesting fluorosilicic acid are two  
25 completely different concepts.

1           Five, babies bathing in fluoride, you could  
2   at least give them a chance. They don't even have  
3   teeth yet.

4           Six, most toothpastes have a warning label  
5   stating, "call poison center or doctor if swallowed,"  
6   because of the fluoride in the toothpaste. So why  
7   don't we have a warning label on our drinking water.

8           Number seven, you're literally poisoning  
9   Albuquerque's water supply.

10          Number eight, you have an opportunity to do  
11   something about the health of Albuquerque's water  
12   supply. Ms. Jones, Klarissa, Ken, Steven Michael,  
13   this is on you guys. We all make mistakes. Let's go  
14   ahead and do what we have to do to fix this.

15          Number nine, there's enough poison in our  
16   water already, like arsenic. What's the point of  
17   putting more poison in it.

18          Number ten, it's wrong and it needs to be  
19   stopped.

20          I'm going to be leaving you guys all with a  
21   hard drive that has a documentary on it. This  
22   documentary was not made by conspiracy theorists.  
23   This documentary was made by people like David  
24   Kennedy, D.D.S., Dr. James Roda, D.D.S., biological  
25   dentist; Dr. Paul Kennet, PhD, professor of

1 chemistry. These people aren't idiots. So, please,  
2 you guys owe it to Albuquerque to look into this a  
3 little bit more. I have a hard drive for every  
4 single one of you guys. I'm just asking you guys to  
5 look into it a little bit more. It has a documentary  
6 on it with a lot of credible resources. Do you mind  
7 if I come up and hand these out?

8 MS. CARREON: I can hand them out.

9 MR. BOBICK: Thank you so much.

10 VICE CHAIR PENA: Thank you, sir. Councilor  
11 Jones.

12 COUNCILOR JONES: Thank you, Madam Vice  
13 Chair. I just want to make it very clear that I  
14 voted against adding additional fluoride to the  
15 water.

16 MR. BOBICK: I appreciate that.

17 COUNCILOR JONES: And I will continue to do  
18 so unless someone proves that it's more helpful than  
19 harmful. Thank you.

20 MR. BOBICK: Thank you for that.

21 VICE CHAIR PENA: Commissioner Quezada.

22 COMMISSIONER QUEZADA: Thank you, Madam  
23 Chair. And I didn't have an opportunity to vote on  
24 fluoride, but I did show up to the Water Authority  
25 meeting, I don't know if you remember me.

1 MR. BOBICK: Yes, sir.

2 COMMISSIONER QUEZADA: And I came and I  
3 spoke against putting fluoride in the water, just so  
4 you know.

5 MR. BOBICK: Thank you so much, Steven  
6 Michael, I appreciate you.

7 VICE CHAIR PENA: Any other comments? I  
8 voted against it as well.

9 MR. BOBICK: Well, let's do what we have to  
10 do to stop it, guys. We're on the same team here  
11 now, you know.

12 VICE CHAIR PENA: Thank you, sir.

13 MR. BOBICK: I appreciate you.

14 VICE CHAIR PENA: Mr. Sanchez, could you  
15 just take a sampling of the water to see if -- you  
16 know, he's talking about some of the levels of  
17 fluoride, that they're higher than they should be.  
18 If you can just provide us at the next meeting with a  
19 report.

20 EXECUTIVE DIRECTOR SANCHEZ: Sure. Thank  
21 you.

22 VICE CHAIR PENA: Thank you.

23 MS. CARREON: Elaine Hebard is our last  
24 speaker.

25 MS. HEBARD: Good afternoon. My name is

1 Elaine Hebard. I'm here to address R-19-7, the  
2 Introduction of Goals and Objectives. And it's hard  
3 to know how these fit in with last year, since there  
4 is no status report. The City gets a status report  
5 on its objectives, and I would suggest that there be  
6 one for the Utility as well so you can just see how  
7 -- whether or not they've been repeated, they're  
8 rolled over, they've been accomplished, something.

9 I actually made a little table and lined  
10 them up so I could see how they worked, okay. So I'm  
11 that way, sorry. Some of my findings were that the  
12 Asset Management Plan that is the basis for the  
13 Decade Plan, was supposed to be done FY19, it's still  
14 not done. So it's been rolled over to FY20. But  
15 that would be nice to have an update on what's  
16 happening with it so that you can look at the Decade  
17 Plan.

18 There's no mention of Water 2120, so any of  
19 those plans that were supposed to be brought in  
20 underneath it, the Groundwater Plan, the Reuse Plan,  
21 there's no reports back on those either. There's no  
22 metrics in most of the objectives.

23 There's also not a cost benefit analysis.  
24 So when you have an evaluation that was supposed to  
25 made last year of the ASR Project, there's been no

1 report. So it's hard to know when you're going into  
2 the next phase whether or not it was successful, how  
3 much it cost, whether it saved water, used water,  
4 that kind of thing.

5 And finally, a suggestion would be to mesh  
6 the data with the new Water Data Act that was just  
7 passed last week by the legislature, House Bill 561.  
8 It's going to be requiring all state agencies to try  
9 to mesh and integrate their water data. So as one of  
10 the large water producers, that might be a  
11 suggestion.

12 So a lot of these suggestions from me are  
13 not new. Rather than repeating them all I've put  
14 them into a packet, which I am going to submit to  
15 you.

16 And finally, Happy World Water Day this  
17 Friday. This year is "Water for All, Leaving No One  
18 Behind." So, with that, thank you.

19 VICE CHAIR PENA: Thank you. That was our  
20 final speaker. Thanks, Ms. Carreon. Next item is  
21 Item 6, Announcements/Communication. Next scheduled  
22 meeting is April 17th, 2019 at 5 p.m., in the Vincent  
23 E. Griego Chambers.

24 Next item is Introduction of Legislation.  
25 We have A., R-19-7, Bernalillo County Water Utility



1 Authority in Fiscal Year 2020 to meet Five Year  
2 Goals. Mr. Frank Roth.

3 MR. ROTH: Thank you, Madam Chair, Members  
4 of the Board. The Goals and Objectives Resolution in  
5 front of you tonight is a part of the Utility's  
6 continuous performance improvement process. This  
7 process includes alignment of the goals and  
8 objectives to performance measures, to measure our  
9 progress in each of these goal areas, as well as  
10 measure our progress from year to year, as well as  
11 benchmark our progress against peer utilities, in  
12 addition to performance assessments like effective  
13 utility management. All these processes are used to  
14 guide the budget process, which will be introduced at  
15 the April meeting.

16 We also seek customer input through the  
17 customer opinion survey, our advisory committees,  
18 customer conversations, this is aligned with our  
19 employee performance expectations. All this to  
20 fulfill the mission of the Utility.

21 The goals and objectives framework, there's  
22 five goals areas. Water, wastewater, customer  
23 service, business planning and organization  
24 development. For each goal area we have guiding goal  
25 statements. These state the long-term desired

1 outcome of what we want to achieve in each of these  
2 goal areas. As I mentioned, key performance measures  
3 to measure our progress in each of these goal areas.

4 We use the performance measures, the  
5 performance assessments and customer input as a way  
6 to identify performance gaps in operation and service  
7 delivery, and we address these performance gaps  
8 during the budget process by allocating and  
9 prioritizing resources, but also the creation of  
10 these objectives. And we have 57 objectives for  
11 fiscal year 2020. So I would like to share with you  
12 a couple of these objectives by each of the goal  
13 areas.

14 So first, continue with the leak detection  
15 program, find leaks before they surface and become  
16 catastrophic failures that get recognized on the  
17 news, unfortunately. We want to begin a valve  
18 exercising program to ensure accessibility and reduce  
19 interrupted service. Continue progress with our  
20 plant maintenance activities at our surface and  
21 groundwater facility. This is an area where we  
22 identify through the benchmarking process where we  
23 can do a better job.

24 Improve our work with operation,  
25 optimization of our water system. This is through

1 the Partnership for Safe Water. If you remember, we  
2 got recognition on our system and we are anticipating  
3 recognition on our treatment system later this year.

4 Begin implementation of water loss control  
5 using the validated water audit and also introduce  
6 new rebates for organic mulch and flow and moisture  
7 sensors for our customers.

8 And lastly, collaborate with Explora in  
9 designing interactive water exhibits through their  
10 new STEM center. This is later on your agenda  
11 tonight.

12 Moving on to the Wastewater Collection  
13 Operations Goal. We have a target of five or less  
14 violations per year. If you recall, we had zero  
15 violations in FY18, so when we continue that  
16 progress, as well as the progress we made in reducing  
17 sanitary/sewer overflows, over 50 percent decrease in  
18 the last ten years. So we want to continue cleaning  
19 our sewer pipes.

20 Continue our progress with our plant  
21 maintenance activities at our water reclamation plant  
22 and also improve our work in operation optimization  
23 through the Partnership of Clean Water, this is the  
24 sister program to the Partnership for Safe Water.

25 In the customer service goal we want to

1 improve customer satisfaction in meeting new targets  
2 at our call center. We've done a great job at  
3 achieving these targets, so we're setting new  
4 targets. Also continue work at replacing our aging  
5 water meters with smart meters to increase revenue  
6 and to support conservation efforts. Conduct our  
7 customer opinion survey. This will be the eighth  
8 survey that we've conducted since the inception of  
9 the Water Authority. And as I mentioned earlier,  
10 continue our customer conversations program. This is  
11 focus group meetings with our customers four times a  
12 year looking at important issues that are affecting  
13 the Utility.

14 In the Business Planning and Management Goal  
15 we have a target of \$58 million of water and  
16 wastewater rehabilitation replacement. You're going  
17 to see a presentation later in the agenda on the  
18 progress we've made out at the Water Reclamation  
19 Plant in terms of the rehabilitation plan.

20 Improve work on our Information Technology  
21 Security Plan to protect our assets from cyber  
22 attacks and begin integrating artificial intelligence  
23 in connection with our hydraulic model to provide  
24 realtime indicators to improve our water quality  
25 monitoring. Also complete the last phase of the

1     Maximo work order system. This is our inventory of  
2     our asset management system, so we want to link this  
3     to our asset management planning process. Also  
4     comply with America's Water Infrastructure Act of  
5     2018, AWIA, in terms of updating our emergency  
6     response plan and our consumer confidence report.

7             And lastly, preparing our drinking water lab  
8     accreditation program, updating standard operating  
9     procedures based on the improvements we've made  
10    through laboratory operations.

11            And then the last goal area, organization  
12    development. We'll be conducting our employee  
13    engagement and satisfaction survey. This will be the  
14    third survey that we've conducted with our employees.  
15    Of course we're going to follow up with those results  
16    with our employees through the focus group meetings  
17    to look for areas of improvement. Also complete our  
18    employee wellness challenges, the other type of valve  
19    exercising focusing on nutrition, physical activity,  
20    weight loss, disease. And then lastly, reduce our  
21    injury hours in order to sustain our safety culture.

22            I'd be happy to answer any questions on  
23    these objectives.

24            VICE CHAIR PENA: Thank you, Mr. Roth. Does  
25    anyone have any questions? No? Councilor Sanchez.

1           COUNCILOR SANCHEZ: Thank you, Madam  
2   Chairman. One of the questions I have is, we are  
3   doing such a good job in water conservation  
4   throughout the area, one of the challenges that we  
5   face, the better we do with water conservation, the  
6   more difficult it becomes for our budget because it's  
7   an enterprise fund and we rely on the rate holders to  
8   keep us whole. What are we doing in the area of  
9   basically trying to assure the public that we can  
10   keep the rates down at the same time as implementing  
11   water conservation measures?

12           MR. ROTH: Madam Chair, Councilor Sanchez,  
13   that's a great question. Over the last couple of  
14   years we've been working on stabilizing the rate  
15   structures so that we have a stable rate structure as  
16   well as sufficient revenue so that we don't have  
17   these boom and bust revenue cycles. Now it's more  
18   smooth, we've increased the base rate to create that  
19   stability. If you recall, about four years ago we  
20   met with the customers and we engaged them around  
21   this process of, how do we strike a balance between  
22   conservation and creating a stable rate revenue  
23   structure. And moreover, they just said, basically  
24   let's take care of our infrastructure needs, continue  
25   with conservation and slowly integrate increasing the

1 rates in order to create that stability. And, in  
2 fact, that's what we've done. You'll probably see at  
3 the April meeting the rate ordinance and I'm going to  
4 leave that for Stan Allred to kind of cover what  
5 they've done and what they've achieved with the rate  
6 structure. The Technical Customer Advisory Committee  
7 will be reviewing that information, in fact, next  
8 week. So they'll be coming back with their  
9 recommendations on that.

10 COUNCILOR SANCHEZ: And once again, I'd like  
11 to thank the public for their work and water  
12 conservation. This community, they've done a  
13 tremendous job. And at the same time I want to thank  
14 this Board and the Administration for their work in  
15 trying to stabilize the rates, because we are an  
16 enterprise fund and we've got to strike that balance.

17 VICE CHAIR PENA: Thank you, thank you.  
18 Next is Item 8, Consent Agenda. And I believe we  
19 vote on the --

20 COMMISSIONER HART STEBBINS: Madam Chair, I  
21 would like to ask that we take C-19-11 off the  
22 Consent Agenda and move it under Approvals.

23 VICE CHAIR PENA: Okay.

24 COMMISSIONER HART STEBBINS: Thank you.

25 VICE CHAIR PENA: We don't need a motion for

1     that, correct?

2                 EXECUTIVE DIRECTOR SANCHEZ:   We don't.

3                 VICE CHAIR PENA:   Okay.   So then we vote on  
4     the Consent Agenda as presented, with the exception  
5     of removing Item A., C-19-11, under Approvals.   Is  
6     there a motion?

7                 COUNCILOR SANCHEZ:   So move.

8                 COUNCILOR JONES:   Second.

9                 VICE CHAIR PENA:   Motion and a second for  
10    approval of the Consent Agenda as adjusted.   All  
11    those in favor say yes.

12                MEMBERS:   Yes.

13                VICE CHAIR PENA:   Opposed?   No.   Motion  
14    passes.   We are now under Approvals and Item A from  
15    the Consent Agenda will now become Item E.   So we are  
16    on Approvals.   First item is O-19-1, Authorizing the  
17    Execution and Delivery of a Loan and Subsidy  
18    Agreement by and Between the Water Authority and the  
19    NMFA South Valley Water Project.   Mr. Stan Allred,  
20    Chris Muirhead and David Laughlin.   It's just Stan.  
21    Did you do away with the rest of the guys?   Where are  
22    they?

23                MR. ALLRED:   Madam Chair, Members of the  
24    Board, I'm going to talk about Items 9A and 9B.   9A  
25    is the ordinance for this transaction and Item 9B is



1 confirming the resolution for this transaction. This  
2 is to approve a loan agreement and a loan subsidy  
3 agreement between the Water Authority and the New  
4 Mexico Finance Authority to do work, continue work  
5 for the Los Padillas South Valley Drinking Water  
6 Project, Phases 7B and 7C.

7           The total loan subsidy amount is \$3,430,081,  
8 which \$2.7 million is a loan and \$700,000 is a grant  
9 subsidy. To break down the loan, it's in two parts.  
10 They're both on a 20-year note. \$2.1 million is at  
11 the market rate of 2 percent and the remaining  
12 \$600,000 is at a disadvantage rate of 2.5 percent.  
13 The annual debt service payment for this will be a  
14 hundred and fifty-seven thousand dollars a year. And  
15 Chris Muirhead is bond counsel from the Modrall firm,  
16 will do a brief discussion of this. And then Dave  
17 Laughlin will come down and give an update of where  
18 we're at on the Los Padillas Project.

19           MR. MURIHEAD: Good evening, everyone.  
20 Chris Muirhead with the Modrall firm. Stan hit the  
21 highlights of the financing, which are very favorable  
22 to the Water Authority in terms of the interest rates  
23 and the loan forgiveness amount.

24           I think what I want to hit on for you is,  
25 this is a debt of the Water Authority consistent with

1 any revenue bonds that you're used to seeing. Now,  
2 those are substantially larger than this one, but it  
3 is a same system pledge, same system debt and so we  
4 make sure that all the covenants in the loan  
5 agreement and in the ordinance tie to the existing  
6 debt of the Water Authority. So this is on the same  
7 level as the bonds. And these covenants are  
8 consistent with -- which are in the other bond  
9 documents. So you're not agreeing to any additional  
10 covenants in here that you wouldn't already be  
11 operating under with your revenue bonds.

12 I think it's also worth noting, all of  
13 these, again, extremely good interest rates and it  
14 can go over 22 years. Unlike your bonds which may  
15 have a ten year call protection, this loan can be  
16 repaid after one year in full, if you desire.

17 Happy to answer any questions about it. But  
18 I just wanted to stress to you in these few minutes,  
19 that we do look at this to make sure that this in no  
20 impacts any existing debt. It draws more attention  
21 because sometimes they're substantially larger, but  
22 the covenants are the same.

23 VICE CHAIR PENA: Thank you.

24 MR. LAUGHLIN: Madam Chair, Members of the  
25 Board, I just want to provide a quick update on the

1 project. For internal purposes we have identified  
2 the project in two phases. We have Phase 1, which is  
3 all of our waterline installation work, which is from  
4 Isleta Boulevard to the east. And Phase 2 is from  
5 Isleta Boulevard to the west. And so far in Phase 1  
6 we're approximately 98 percent complete with all of  
7 our waterline installation for Phase 1. We've  
8 installed 10,733 linear feet of waterline out of the  
9 total of 10,983 linear feet that was planned for  
10 Phase 1. And as far as Phase 2, we've installed  
11 approximately 4,400 linear feet out of the 17,700  
12 total linear feet in Phase 2. And so we're about 25  
13 percent complete in Phase 2.

14 As far as financially speaking, we have  
15 expended approximately \$3 million to date for this  
16 project. Of that we've received 1.2 million from  
17 Bernalillo County, which is their full commitment to  
18 the project. At this point we have an estimate of  
19 approximately \$2.2 million to complete the project.

20 VICE CHAIR PENA: Thank you. Commissioner  
21 Quezada.

22 COMMISSIONER QUEZADA: Without having to  
23 reiterate the importance of this project, I again  
24 thank the Water Authority Bernalillo County for  
25 supporting this. Long awaited improvements to the

1 Los Padillas Community. And I move for approval.

2 COUNCILOR SANCHEZ: Second.

3 COUNCILOR JONES: Second.

4 VICE CHAIR PENA: There's a motion and a  
5 second for approval of O-19-1. All those in favor  
6 say yes.

7 MEMBERS: Yes.

8 VICE CHAIR PENA: Opposed? No. Motion  
9 passes. Next is R-19-4, this is part of the same  
10 discussion. I move approval of R-19-4.

11 COMMISSIONER QUEZADA: Second.

12 VICE CHAIR PENA: There's a motion and a  
13 second. All those in favor say yes.

14 MEMBERS: Yes.

15 VICE CHAIR PENA: Opposed? No. Motion  
16 passes. Next we are on R-19-5, Authorizing the  
17 Removal of Certain Uncollectable Accounts from the  
18 Albuquerque Bernalillo County Water Utility Authority  
19 Accounts Receivable Record, FY2014 and prior.  
20 Ms. Candelaria.

21 MS. CANDELARIA: Good evening, Madam Chair,  
22 Members of the Board. My name is Adrienne  
23 Candelaria, I am the Customer Service Division  
24 Manager.

25 The item before you this evening is a

1 request to approve the removal of uncollectable debt  
 2 from our accounts receivable records. This  
 3 approximately \$110,000 represents uncollectable debt  
 4 that is time barred because it's greater than four  
 5 years old. This uncollectable debt represents  
 6 primarily water and wastewater accounts that have  
 7 gone unpaid and we are unable to collect.

8 So we request your approval this evening to  
 9 remove that uncollectable debt from our accounts  
 10 receivable records. And I stand for any questions.

11 VICE CHAIR PENA: Councilor Jones.

12 COUNCILOR JONES: Thank you, Madam Chair.  
 13 How does this compare numberwise with what we  
 14 normally do in this cleanup-kind-of-thing?

15 MS. CANDELARIA: So the last time we were  
 16 here, that was in December and that number was around  
 17 \$75,000, so it fluctuates a little bit depending on  
 18 when we hit that four year mark and what we're  
 19 bringing. But we're attempting to come every quarter  
 20 to clean up our books.

21 COUNCILOR JONES: Thank you.

22 VICE CHAIR PENA: Thank you.

23 COUNCILOR JONES: I move approval of R-19-5.

24 COUNCILOR SANCHEZ: Second.

25 VICE CHAIR PENA: There's a motion and a

1 second for approval of R-19-5. All those in favor  
2 say yes.

3 MEMBERS: Yes.

4 VICE CHAIR PENA: Opposed? No. Motion  
5 passes. Next is R-19-6, Entering into a Memorandum  
6 of Agreement with Explora Science Center and  
7 Children's Museum of Albuquerque. Ms. Katherine  
8 Yuhas and Kristin Leigh.

9 MS. YUHAS: Madam Chair, Members of the  
10 Board, I'm here with a very fun opportunity for us  
11 tonight. I am asking for your approval to enter into  
12 a Memorandum of Agreement with Explora to develop  
13 water exhibits for their new STEM Education and  
14 Workforce Training Center -- Workforce Center --  
15 Workforce Development Center. I knew I had that  
16 wrong.

17 The cost to the Water Authority would be  
18 \$425,000. \$350,000 would be for development of the  
19 exhibits and then over the next five years we would  
20 give them \$15,000 each year for maintenance and  
21 staffing of those exhibits.

22 And with me here is Kristin Leigh from  
23 Explora and she's got a little presentation about  
24 this new center that they're opening, and then we'll  
25 answer any questions.

1           MS. LEIGH: Thank you so much. Madam Chair,  
2 Members of the Board, it's an honor to speak in front  
3 of you today and it's been a thrill to work with  
4 Katherine and her colleagues who share our commitment  
5 to making sure that we have the future STEM  
6 professionals we need to answer tough scientific  
7 questions around issues like water resource  
8 management.

9           So many of you are very familiar with both  
10 the current Explora and this proposed project.  
11 Several of you have seen this information very  
12 recently. So I'll be brief about the highlights in  
13 terms of Explora's qualifications as a partner here.

14           But you know Explora's mission is to create  
15 opportunities for inspirational discovery and the joy  
16 of life-long learning through interactive experiences  
17 in science, technology, engineering, art and math.  
18 We operate based on a set of core values that include  
19 community, learning, generosity and sustainability.  
20 And we're working systemically with over 70 community  
21 partner organizations right now to affect change in  
22 education and economic development.

23           We provide hands-on classroom programs for  
24 over 80,000 students each year at schools, libraries  
25 and community centers in all 33 counties. And our

1 program Support the Work of Schools and our benchmark  
2 to the new STEM-ready state science standards.

3 In addition to providing programs for  
4 students we do professional development for teachers  
5 building skills and topics like inquiry science and  
6 more and more in computer science education and  
7 coding.

8 This December was Explora's 15th Anniversary  
9 in our current building on Mountain Road, which  
10 represents a highly-effective public/private  
11 partnership, 501(c)(3,) operating in this beautiful  
12 city building. And we've really been bursting at the  
13 seams with all of our new programs aligned around a  
14 Cradle through Career STEM Learning Strategic Focus.  
15 And so we've begun work to expand our campus to  
16 include not just the current Explora, which is what  
17 we've all grown to love over the past 15 years, but  
18 also to work more with younger students and their  
19 families in Explora Early Learning Center and more  
20 with teens and young adults, preparing them for STEM  
21 careers at the STEM Education and Workforce  
22 Development Center that Katherine mentioned. And  
23 that center is where the bulk of this work with the  
24 Water Utility Authority would take place. However,  
25 the exhibits could also span into our current



1 building and the grounds of this new campus.

2 This shows you where it is. Building 2  
3 right now will be the new STEM Education and  
4 Workforce Development Center.

5 The goal of this new project is to improve  
6 educational outcomes through increased access to high  
7 quality early childhood and out of school time  
8 learning, to drive economic development by better  
9 preparing our students for these STEM jobs that can  
10 end generational cycles of poverty, and to build  
11 community by contributing to this unified, vibrant  
12 museum district in Old Town.

13 So the project that we're talking about  
14 today takes place as Phase 1 of this campus. Our  
15 STEM Education and Workforce Development Center will  
16 debut soon as X Studio, a place specifically for  
17 teens and young adults so they don't feel they're  
18 entering a children's museum. It will include a  
19 coding lab, a robotics lab, multipurpose chemistry  
20 and physics labs, a teen lounge and a new exhibition  
21 hall that's specifically focused on STEM taking place  
22 locally and the jobs that you can have locally in  
23 STEM and that's where we have done this collaborating  
24 with the Water Utility Authority on a large  
25 exhibition specifically related to water resource

1 management. This center is in design development  
2 right now, which should wrap towards the end of this  
3 year, will break ground, moving straight into  
4 construction. And so this new center should open at  
5 the end of 2020 or the very beginning of 2021.

6 We're also fortunate to have secured the  
7 operating funding for this center already. So the  
8 business plans are in place and sustainable. The Air  
9 Force Research Lab has signed a partnership  
10 intermediary agreement with Explora providing  
11 \$350,000 a year in operating funding, because they  
12 know preparing our future STEM professionals is  
13 mission-critical work.

14 So we would be increasing awareness of  
15 careers in water resource management through an  
16 exhibition that would provide seven to nine  
17 interactive indoor and outdoor experiences related to  
18 the scientific properties of water, surface water,  
19 groundwater, aquifers, the water cycle, conservation,  
20 all of the tough important scientific questions that  
21 the staff and STEM professionals deal with every day  
22 in terms of water resource management. We'd be  
23 co-creating this exhibition with the Water Utility  
24 Authority, I think that's important to point out,  
25 relying on their content expertise and being true

1 partners in this work. And the exhibition would also  
2 feature faces of the Water Utility Authority so that  
3 our young students can see role models in STEM, they  
4 can see people who look like them who are entering  
5 STEM fields, and they can learn more about the  
6 personal story and career pathway to get a local job  
7 in STEM.

8           This describes a little bit of the timeline.  
9 We would want to get this agreement signed fairly  
10 shortly here so that we can start work this summer  
11 with the Water Utility Authority on exhibit design,  
12 prototyping, co-development, fabricating right after  
13 that and moving on to installation for a public  
14 launch and opening around the end of 2020.

15           I have one conceptual rendering of the new  
16 center that you can see and then I'll stand for  
17 questions. We're working with the City's selected  
18 architect, Jeremy Dreskin at Studio Southwest, and  
19 he's done this conceptual rendering of the new  
20 center.

21           There's no sound, so I can talk you through  
22 what you see here. You'll start out at the dome of  
23 Explora, the front entry, and you'll see a conceptual  
24 rendering, right here. The new 7,000 square foot  
25 center. We're going to fly around it at the moment.

1 And, as I said, designed specifically with teens and  
2 young adults in mind, providing all kinds of STEM  
3 workforce development programming, internships,  
4 externships, coding intensives, robotics workshops.  
5 We're flying around it now. And as you pan out and  
6 look down 18th Street you'll see future phases of the  
7 Cradle through Career learning campus, specifically  
8 the early childhood phases, which come next and are  
9 represented by those purple buildings down the street  
10 there. So happy to stand for any questions.

11 VICE CHAIR PENA: Any questions?  
12 Commissioner Quezada.

13 COMMISSIONER QUEZADA: Thank you, Madam  
14 Chair. On this is there going to be, and I tried to  
15 pay attention a hundred percent, but I don't know if  
16 I missed it. We also, when we're talking about  
17 water, are we also going to be talking about  
18 agriculture? Because I'm a big fan of STEM and the  
19 science and the technologies, but the valley floor  
20 and the water, that's historically important to us  
21 here in New Mexico, really stems a lot into  
22 agriculture. And I don't know if you could speak on  
23 that.

24 MS. LEIGH: Yes, I would say that's an  
25 example of one of the topics that we've been talking

1 about and the specific topics haven't so much been  
2 nailed down, that happens during that first concept  
3 development phase. Do you have more to say on that?

4 MS. YUHAS: I would just add, that in  
5 developing this we'd be talking about the Middle Rio  
6 Grande Valley as a whole and our place in it and what  
7 we do and how we all work together to manage this  
8 resource. So, yes, agriculture would be a part of  
9 what we're discussing of course.

10 VICE CHAIR PENA: Any other questions? I  
11 just want to say that I really think that this is  
12 really an incredible idea how the Water Authority is  
13 thinking outside the box. Director Sanchez, this is  
14 really forward thinking. Not only is it going to  
15 educate our youth and really provide an opportunity,  
16 but it's maybe future Water Authority employees. So  
17 very, very wise. Thank you, appreciate it.

18 So I move that R-19-6 be approved.

19 COMMISSIONER QUEZADA: Second.

20 VICE CHAIR PENA: There's a motion and a  
21 second for approval of R-19-6. All those in favor  
22 say yes.

23 MEMBERS: Yes.

24 VICE CHAIR PENA: Opposed? No. Motion  
25 passes. We are now on Item E, which was Item A under

1 the Consent Agenda, C-19-11, Approval of the  
2 Agreement of GandyDancer, LLC, as a result of  
3 B2019000013 Carnuel Phase 2B Water System  
4 Improvements. Mr. Roth.

5 MR. ROTH: Madam Chair, Members of the  
6 Board, staff recommends approval of this agreement  
7 with GandyDancer, which authorizes it to construct a  
8 base bid of 2,500 feet of waterline along the north  
9 side of New Mexico 333. The funding for this  
10 agreement allow \$1 million, was already approved by  
11 this Board in May of 2018. This project will provide  
12 clean, reliable drinking water to the Carnuel  
13 residents as well as improve fire protection.

14 This map shows Phase 2B, which is shown in  
15 the green line of this map, compared to the blue  
16 line, which is the existing waterlines.

17 VICE CHAIR PENA: Thank you, Mr. Roth. Any  
18 questions? Commissioner Stebbins.

19 COMMISSIONER HART STEBBINS: Thank you,  
20 Madam Chair. And thank you, Mr. Roth, for this. The  
21 reason I asked this to be taken off Consent, I know I  
22 wasn't on the Board last year, so maybe I missed it.  
23 But it seems it's been a while since we've had a  
24 presentation on what progress is being made in  
25 Carnuel and what the future plans are. Can you talk

1 about that a little bit, please.

2 MR. ROTH: Madam Chair, Commissioner Hart  
3 Stebbins. To this point about seven miles of  
4 waterline have been constructed since 2009, that's  
5 when the water project began. More recently there  
6 was Phase 3A, and I'll zoom into this area. I can't  
7 point to it, but if you see Filiberto Lane, you'll  
8 see there's blue lines, so we constructed that  
9 component, as well as Knight Lane was also  
10 constructed as part of 3A. And now we're doing 2B,  
11 which we had to -- Phase 2 was an incomplete phase  
12 because we ran out of funding. So with this \$1  
13 million which was authorized last year by this Board,  
14 we are now continuing to fit those pieces together,  
15 complete Phase 2 through Phase 2B. This is the  
16 waterline along 333. And then hopefully we'll get  
17 some more funding for Phase 2C, so that's the next  
18 phase that is represented in the purple waterline, so  
19 that is areas of Echo Canyon and also the beginning  
20 stages of Coyote Springs. At this point, with the  
21 limitation of funding, we just have to piecemeal this  
22 project together.

23 COMMISSIONER HART STEBBINS: And I apologize  
24 if you already said this, but where's the funding  
25 coming from?

1           MR. ROTH: The funding is coming through  
2 drinking water state loan revolving fund.

3           COMMISSIONER HART STEBBINS: So it's a loan  
4 repaid how?

5           MR. ROTH: The project of \$1 million was  
6 actually 75 percent grant and then 25 percent loan.  
7 The loan is repaid as connections to the system.

8           COMMISSIONER HART STEBBINS: Thank you.  
9 Thank you, Madam Chair.

10          VICE CHAIR PENA: Thank you, Mr. Roth,  
11 Commissioner Stebbins. With that, I move approval of  
12 C-19-11.

13          COUNCILOR JONES: Second.

14          VICE CHAIR PENA: There's a motion and  
15 second for approval. All those in favor say yes.

16          MEMBERS: Yes.

17          VICE CHAIR PENA: Opposed? No. Motion  
18 passes. We are now on Item 10, OB-19-7, Southside  
19 Water Reclamation Plant Renewal Program. Mr. David  
20 Laughlin and Jeff Romanowski.

21          MR. LAUGHLIN: Madam Chair and Members of  
22 the Board, thank you so much for the opportunity to  
23 speak tonight. This presentation tonight focuses on  
24 our CIP Renewal Program for the Southside Water  
25 Reclamation Plant that has been ongoing for the last



1 nine years. Before I get started I would like to  
2 just thank John Stomp, Dave Price and Charlie Leder  
3 for their review and input on this presentation, and  
4 specifically Nancy Muninski for her presentation  
5 content. As well as her ongoing management of the  
6 CIP Renewal Program at the Southside Plant.

7 My goal with this presentation tonight is  
8 just to simply shed some light and share some of the  
9 exciting improvements that we've made down at the  
10 Southside Plant and give you just some idea of the  
11 scope and size and complexity of some of these  
12 projects.

13 So our Renewable Program began in 2009 with  
14 the authorization of Brown and Caudwell to produce a  
15 Reclamation Asset Management Plan for us. This  
16 management plan focused on identifying the treatment  
17 deficiencies and needs that we had at the plant so  
18 that we could consistently meet our discharge permit  
19 requirements. We also were focused on creating a  
20 safe working environment for our employees, improving  
21 O and M processes and procedures and be a good  
22 neighbor and steward to the neighborhood itself,  
23 which included reducing odors and emissions.

24 In 2010 Brown and Caudwell completed that  
25 Reclamation Asset Management Plan and in this

1 document plant deficiencies were identified and a  
2 series of priority renewable projects were defined.  
3 And finally, an estimated total renewal cost of \$250  
4 million was identified for these improvements that  
5 were needed at the plant.

6 In June 2011 the Southside plant manager at  
7 the time, Joe Chwirks, presented to the Board and  
8 reinforced the critical need to invest in specific  
9 water treatment processes and enhanced odor control  
10 upgrades. And in October of 2011 the Water Authority  
11 Board approved \$60 million in bond sales for water,  
12 sewer and Southside Plant rehabilitation.

13 So this graph illustrates the year-by-year  
14 investments that have been made in the improvements  
15 at the Southside Plant. As you can see, we have the  
16 access on the left, which is the annual renewal  
17 spending and of course on the right we have the  
18 accumulated total renewal spending. And as of 2018  
19 we spent a total of \$149 million on construction and  
20 \$29 million on engineering, for a total of \$178  
21 million. So at this point out of our \$250 million  
22 program we're about 71 percent complete.

23 So I wanted to share some of the projects  
24 that we have accomplished at the plant. And as I do,  
25 I think it's important to sort of just remind

1 everyone of the inherent challenge that's faced with  
2 wastewater treatment. With wastewater treatment  
3 there's no off button. The 50 million gallons of raw  
4 sewage shows up at the Wastewater Treatment Plant  
5 every day, all day, rain or shine. And so with that  
6 in mind, there's a challenge to build redundancy,  
7 flexibility and reliability into the system. And so  
8 hopefully these projects that I'll show you today  
9 will kind of illustrate the things that we've tried  
10 to provide to the plant so that they have options  
11 when equipment breaks and when there are power  
12 outages, et cetera. So hopefully you'll see that  
13 through the presentation of these different projects.

14           So in 2011 the UV Disinfection Facility was  
15 completed and this \$8.7 million facility replaced the  
16 previous disinfection system and not only provided  
17 improved disinfection efficiency for our treated  
18 wastewater prior to discharge, but it also eliminated  
19 the hazards associated with chlorine gas handling.  
20 This produced increased safety considerations for our  
21 employees and also overall safety considerations for  
22 all of our neighbors by not having to deal with and  
23 handle chlorine gas.

24           In 2016 the Preliminary Treatment Facility,  
25 or PTF system, was completed for \$34 million. This

1 critical plant upgrade provides primary debris  
2 screening and two-stage grit removal, which protects  
3 all the downstream wastewater treatment plant  
4 processes from debris, accumulation and abrasive grit  
5 damage. And this PTF facility, in addition to  
6 removing debris and grit from the incoming raw  
7 wastewater is also a fully enclosed facility. And so  
8 what that means is, as we're moving those initial  
9 components from the wastewater, we're also capturing  
10 all the odors that are associated with raw sewage  
11 when it initially hits the plant. And by doing that  
12 we've been able to help tremendously with the overall  
13 reduction in ambient odors at the plant.

14 In 2018 the Solids Dewatering Facility was  
15 completed. And this facility takes aerobically  
16 digested sludge, centrifuges it to remove the water  
17 and produces a dewatered cake that can subsequently  
18 be utilized for composting and reuse. In 2018 the  
19 rehabilitation of this existing facility was  
20 completed and the enhanced Solids Dewatering Facility  
21 was designed to save on excavation/demolition costs  
22 by expanding and retrofitting the existing facility.  
23 And so we now have a Solids Dewatering Facility that  
24 has a fully rehabbed sludge processing plant with  
25 three centrifugal separators. We also have a new 2

1 million gallon sludge digestion tank so that we can  
2 store extra sludge in case we have equipment failures  
3 or maintenance issues. And then finally, we have a  
4 much needed storage warehouse as part of this  
5 project.

6           The improvements to Primary Clarifiers 5  
7 though 8 is currently ongoing and is planned for  
8 completion in the winter of 2019. Currently this is  
9 a \$13.6 million project and basically what this  
10 project does is install dome covers over our four  
11 largest diameter primary clarifiers and provides much  
12 needed odor control for really the largest remaining  
13 source of ambient odor at the plant. It's dome  
14 installation for primary clarifier 8 is complete.  
15 The dome for primary clarifier number 7 will be  
16 installed by the end of March and the domes for the  
17 remaining two clarifiers will be completed by the  
18 winter.

19           Aeration Basins 7 and 8 renewal was  
20 completed in 2014 and this project involved  
21 relocation of aeration valves above water level,  
22 installation of new piping and diffuser systems,  
23 which eliminated air losses and short-circuiting and  
24 resulted in less required blower capacity, lower  
25 energy consumption and improved organics and nitrogen

1 removal.

2           A very important project that was completed  
3 in 2016 was the Portable Generator Power Project in  
4 which we were able to purchase two portable power  
5 generators that provide backup power to the most  
6 critical plant processes, which includes pump houses  
7 and blowers so that we can maintain wastewater  
8 treatment processes during power outages.

9           We have multiple ongoing electrical projects  
10 at the plant as well in addition to the unit process  
11 upgrades that I just covered. We're also in the  
12 process of actively upgrading the electrical systems  
13 at the plant to improve reliability and provide some  
14 redundancy during regular operation as well as  
15 emergencies.

16           The Power Loop A and B Project will be  
17 approximately \$8.4 million and what this project will  
18 do, it will separate the primary power loops at the  
19 plant so that we have two separate and complete and  
20 distinct power loops. And so what we'll now be able  
21 to do is we'll be able to take down one of those  
22 power loops if we wanted to do maintenance while  
23 still maintaining full power feed to the plant. It's  
24 a very critical project for us.

25           We're also in the process of doing a \$2.1

1 million Lightning Protection Project, which will  
2 provide lightning protection to 45 structures at the  
3 wastewater plant to protect it from lightning strikes  
4 and stray electrical current.

5 And then finally, we planned MCC and  
6 Switchgear Replacement Project will replace outdated  
7 and undersized power equipment that will improve  
8 worker safety and it will also improve the pump and  
9 motor reliability for a lot of our processes.

10 At this point I thought I would share this  
11 graph, which I think sort of begins to illustrate the  
12 success of this overall renewal program at the  
13 Wastewater Plant. As you can see, in FY12 there were  
14 a total of 17 permit violations that year. And as  
15 you've seen as we've begun to make these pretty  
16 substantial improvements to the plant, those  
17 discharge permit violations have decreased  
18 dramatically. And frankly, as of FY18 we currently  
19 have not had one discharge violation. So the  
20 improvements have been significant. And again, those  
21 decreases in permit violations are not solely a  
22 function of the improvement of the plant processes,  
23 it's also a function of improving those processes in  
24 combination with improved operating conditions and  
25 improved overall operating methods, methodology.

1           And so, with that, I wanted to turn the  
2 floor over to Jeffrey Romanowski who's the chief  
3 engineer at the plant to kind of talk about some of  
4 the operational changes and improvements they're  
5 making as well.

6           MR. ROMANOWSKI: Thanks, David, Madam Chair,  
7 Board Members. I think, as David, alluded to,  
8 there's an indication of the performance of the plant  
9 and we got a couple here that we want to highlight.

10           2018 the Rocky Mountain Section of the WEA,  
11 we received an outstanding performance results award.  
12 NACWA also the last few years we've hit the Silver  
13 Award. So I think these are indications that the  
14 plant is actually on a lot better footing now and  
15 we're really making a lot of progress not only with  
16 the projects that Dave described, but also with the  
17 personnel and the training and I'm going to go  
18 through some of that here shortly. Last thing is, we  
19 were proud to be charter members of the AWWA  
20 Partnership for Clean Water. That was a very  
21 detailed audit that went through operations,  
22 maintenance, safety, budget, a whole slew of areas,  
23 looked at every aspect of the plant and showed areas  
24 that we were doing really well and then areas that we  
25 also needed to improve. And so the areas that we



1 needed to improve, we're actively engaged in fixing  
2 those or making those better and it's been a good  
3 program for us.

4 As far as operator training goes and just  
5 general knowledge of transfer to our staff we have  
6 things called APEs and KPIs. APEs are Area Process  
7 and Expectations. KPIs are Key Processing  
8 Indicators. These are very thorough documents for  
9 each section of the plant, each process area. We use  
10 these as training tools with our plant trainer to  
11 transfer that knowledge back to our new operators and  
12 even operators that have been around. We do that on  
13 an annual basis where we're constantly just training  
14 our staff. The graph on the right kind of just shows  
15 that there's so many different programs and guides  
16 and just documents that we have to transfer the  
17 knowledge that we have in our minds into paper  
18 documents that we can transfer to the people that do  
19 come after us.

20 There's some talk about Asset Management.  
21 I'm not going to go through all these bullets. I  
22 just want to share a quick story, this actually  
23 happened just today. In our aeration basins we have  
24 a fleet of 98 Philadelphia mixer-type mixers. We had  
25 the vendor come out just today, he did an assessment

1 of all our mixers. And these are all 20-plus years  
2 old units. They came back to our maintenance  
3 department and said, "Wow, you guys are doing a great  
4 job. These are in really good shape." We have a few  
5 issues that we have to address, but for the most part  
6 that fleet of 98 mixers are doing really well. And  
7 one of the reasons is, that was one of the first  
8 areas we started doing preventive maintenance  
9 program. So we're out there changing the oil, we're  
10 out there monitoring the equipment, making sure that  
11 they are doing what they need to do, and I think  
12 we're seeing the effects. These 20-plus years old  
13 units still have a life in them and that means we can  
14 defer having to spend money to replace these units.

15 As David alluded to, we're also doing odor  
16 control. It starts in the collection system and  
17 obviously anything that gets into the collection  
18 system is going to come down to the plant and so we  
19 are actively engaged with my counter-parts on that  
20 side to make sure that what goes into the system  
21 meets our criteria. We meet with the Mountain View  
22 Neighborhood Association fairly frequently.  
23 Actually, much more than annually. And we just let  
24 them know how we're doing, what's going on, projects  
25 we have going on. If we do get calls from the

1 neighbors, which we do from time to time, we do try  
2 and address those very quickly and hop on them. We  
3 haven't actually had many odor complaints in the  
4 last, I don't know, year and a half or so and I think  
5 part of it is because of some of the projects that  
6 we've been doing.

7 This kind of just reiterates what David  
8 said, there's a photo of the dome actually on Primary  
9 Clarifier Number 8. Number 7 is actually going to be  
10 going on here in a couple of weeks. And then we have  
11 two more that we're going to do by the end of the  
12 year. With that it's going to really reduce the  
13 odors that could emit from that process area.

14 Another thing that we've done, we had these  
15 activated carbon units. They're very good  
16 odor-control units. We've kind of strategically put  
17 those throughout the plant where we have some higher  
18 H<sub>2</sub>S areas and that does a great job of treating that  
19 airstream.

20 And again, we have a program where we're  
21 actually adding chemicals into the collection system,  
22 which does help reduce that H<sub>2</sub> level that comes into  
23 the plant and that basically helps keep the odors  
24 down. We do have a third party that comes in once a  
25 quarter and they monitor our fenceline for odors an

1 make sure that we're doing what we say we're going to  
2 do.

3 One example that is helping is our San Juan  
4 Water Treatment Plant, they actually use iron in  
5 their process and that spent iron actually was just  
6 being disposed of. We actually now inject that into  
7 the sewer collection system that actually flows down  
8 to my plant and it helps along the system from the  
9 San Juan down to the Southside Plant, and then once  
10 it gets to my plant we've seen a huge reduction in H2  
11 levels in our digestion process and odors overall  
12 have been reduced. And so it's been a great program.  
13 We plan continuing that in the future.

14 This is our new Headworks Facility and you  
15 can see a Blue Heron on top there and that was just  
16 kind of a neat thing that we see sometimes at the  
17 plant. So I'll stand for any questions.

18 VICE CHAIR PENA: Are there any questions?  
19 No. I just have one question. On your presentation  
20 you had the generators. Are those battery packs, are  
21 they gas?

22 MR. LAUGHLIN: They're diesel power  
23 generators. So if we have a full power outage we're  
24 still able to run our critical systems.

25 VICE CHAIR PENA: I have a constituent who

1 just came to me and met with me. She invented and  
2 has a patent on solar-powered generators. So I'm  
3 going to have to send her your way. Thank you for  
4 the presentation, I appreciate. And with that, there  
5 being no further business, this meeting is adjourned.

6 (Meeting adjourned at 6:00 p.m.)

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REPORTER'S CERTIFICATE

I, Kim Kay Shollenbarger, Registered Professional Court Reporter, do hereby certify that I reported the foregoing proceedings in stenographic shorthand and that the foregoing pages are a true and correct transcript of those proceedings taken to the best of my ability.

I FURTHER CERTIFY that I am neither employed by nor related to any of the parties or attorneys in this matter and that I have no interest in the final disposition of this matter.

---

Kim Kay Shollenbarger  
Registered Professional Court Reporter