

MINUTES
WATER QUALITY MANAGEMENT ADVISORY COUNCIL
July 21, 2020
Oklahoma Department of Environmental Quality
Virtual Meeting via Teams
Oklahoma City, Oklahoma

Official WQMAC

To be approved at the September 29, 2020 Meeting

Notice of Public Meeting – The Water Quality Management Advisory Council (WQMAC) convened for a Regular Meeting at 2:00 p.m. virtually via Teams. The meeting was held in accordance with the Open Meeting Act, with notice of the meeting given to the Secretary of State on October 16, 2019. The agenda was posted at DEQ twenty-four hours prior to the meeting. Mr. Brian Duzan, Chair, called the meeting to order. Ms. Quiana Fields called roll and confirmed that a quorum was present.

MEMBERS PRESENT

Robert Carr
Brian Duzan
Mary Mach
Mark Matheson
Rick Moore
Jon Nelson
Willard Smith
Duane Winegardner
Terry Wyatt

MEMBERS ABSENT

Steve Sowers
Debbie Wells

DEQ STAFF PRESENT

Shellie Chard
Chris Armstrong
David Pruitt
Mark Hildebrand
Paul Parks
Betsey Streuli
Matt Pace
Brian Clagg
Nicholas Huber
Brandon Bowman
Erin Hatfield
Lloyd Kirk
Travis Couch
Kendal Stegmann
Terry Lyhane
Melanie Foster
Jeff Franklin
Scott Raybern
Vance Pennington
April Eberle
Madison Miller
Malcolm Zachariah
George Russell
Michelle Wynn
Saba Tahmassebi
Greg Carr
Karen Steele
Quiana Fields

OTHERS PRESENT

Tammie Shipman, Court Reporter

Approval of Minutes from the January 7, 2020 Meeting – Mr. Duzan called for a motion to approve the Minutes of the January 7, 2020 Regular Meeting. Mr. Winegardner moved to approve and Ms. Wyatt made the second.

See transcript pages 4 – 5

Robert Carr	Yes	Willard Smith	Yes
Mary Mach	Yes	Duane Winegardner	Yes
Mark Matheson	Yes	Terry Wyatt	Yes
Rick Moore	Yes	Brian Duzan	Yes
Jon Nelson	Yes		

ANNOUNCEMENT OF DEQ STAFFING CHANGES – Ms. Shellie Chard, Division Director of the WQD announced DEQ staff changes.

See transcript pages 6 - 8

DISCUSSION OF RULEMAKING CHANGES TO OAC 252:641-“INDIVIDUAL AND SMALL PUBLIC ONSITE SEWAGE TREATMENT SYSTEMS” – Mr. Nicholas Huber, Environmental Programs Manager of ECLS, stated that the DEQ staff will be proposing emergency changes to Chapter 641 to: under certain situations, allow a reduction of the minimum size of subsurface absorption fields for individual on-site sewage treatment systems; and revise and combine the minimum spray area size for aerobic systems, most of which will result in a reduction of overall application areas. DEQ plans to ask the WQMAC to vote on the proposed emergency changes at the September 29, 2020, WQMAC meeting. DEQ plans to introduce the same rules as permanent rules at the January 2021 WQMAC meeting.

See transcript pages 8 – 34

INFORMATIVE PRESENTATION ON ACTIVITIES RELATED TO THE OKLAHOMA STRATEGIC ALLIANCE – Mr. Brandon Bowman, Environmental Programs Manager of the WQD and J.R. Welch, Chief Operations Officer with the Rural Water Association both gave a presentation on activities related to the Oklahoma Strategic Alliance.

See transcript pages 34 – 55

DIRECTOR’S REPORT – Ms. Chard provided an update on other division activities.

See transcript pages 55 – 60

NEW BUSINESS – None

ANNOUNCEMENTS – The next scheduled meeting is on Tuesday, September 29, 2020, 2:00 p. m.; Location/Format to be determined.

ADJOURNMENT – Mr. Duzan called for a motion to adjourn. Mr. Nelson moved to adjourn and Ms. Wyatt made the second. The meeting was adjourned at 3:25 p.m.

See transcript pages 60 – 61

Robert Carr	Yes	Willard Smith	Yes
Mary Mach	Yes	Duane Winegardner	Yes
Mark Matheson	Yes	Terry Wyatt	Yes
Rick Moore	Yes	Brian Duzan	Yes
Jon Nelson	Yes		

Transcripts and Attendance Sheet are attached as an official part of these Minutes.

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REGULAR MEETING/HEARING AGENDA
WATER QUALITY MANAGEMENT ADVISORY COUNCIL

JULY 21, 2020 - 2:00 P.M.

VIRTUAL MEETING

REPORTED BY: TAMMIE SHIPMAN, CSR

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1 COUNCIL MEMBERS PRESENT:
2 MR. BRIAN DUZAN, CHAIRMAN
3 MR. DUANE WINEGARDNER, VICE CHAIRMAN
4 MR. ROBERT CARR
5 MS. MARY MACH
6 MR. MARK MATHESON
7 MR. RICK MOORE
8 MR. JON NELSON
9 MR. WILLARD SMITH
10 MS. DEBBIE WELLS
11 MS. TERRY WYATT
12
13 Also Present:
14 Ms. Quiana Fields, Secretary of Board and Council
15 Ms. Kendal Stegmann, Director of Air Quality
16 Ms. Shellie Chard, Water Quality Division Director
17 Ms. Erin Hatfield, External Affairs
18 Mr. Brandon Bowman, Oklahoma Strategic Alliance
19 Mr. J.R. Welch, Oklahoma Rural Water Association
20 Mr. Nicholas Huber, Program Manager & TRL of DEQ
21 Mr. Mark Hildebrand, Director of Environmental
Complaints and Local Services
22
23 Mr. Terry Lyhane, Assistant Director of Water Quality
24
25

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1 Mr. Matheson?
2 MR. MATHESON: Here.
3 MS. FIELDS: Mr. Moore?
4 MR. MOORE: Here.
5 MS. FIELDS: Mr. Nelson?
6 MR. NELSON: Here.
7 MS. FIELDS: Mr. Smith?
8 MR. SMITH: Present.
9 MS. FIELDS: Mr. Sowers is absent.
10 Ms. Wells is absent.
11 Mr. Winegardner?
12 VICE CHAIRMAN WINEGARDNER: Here.
13 MS. FIELDS: Ms. Wyatt.
14 MS. WYATT: Here.
15 MS. FIELDS: Mr. Duzan?
16 CHAIRMAN DUZAN: Here.
17 MS. FIELDS: We have a quorum.
18 CHAIRMAN DUZAN: Okay. The next thing
19 is the approval of the minutes from the
20 January 7th, 2020, meeting, which I believe has
21 been sent to everybody ahead of time.
22 VICE CHAIRMAN WINEGARDNER: This is
23 Duane, and I will move (inaudible) --
24 MS. WYATT: It's Terry. I second.
25 UNIDENTIFIED PERSON: Related to slide

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1 (Meeting called to order at 2:00 p.m.)
2 CHAIRMAN DUZAN: This regular meeting
3 of the Water Quality Management Advisory Council
4 was called in accordance with the Open Meeting
5 Act. Notice for this July 21st, 2020, virtual
6 meeting was filed with the Secretary of State in
7 Oklahoma, on October 16th, 2019. The agenda was
8 duly posted at DEQ 24 hours prior to the
9 meeting. Only matters appearing on the posted
10 agenda may be considered at this regular
11 meeting.
12 In the event that this meeting is
13 continued or reconvened, public notice of the
14 date, time and place of the continued meeting
15 will be given by announcement at this meeting.
16 Only matters appearing on the agenda of a
17 meeting which is continued may be discussed at
18 the continued or reconvened meeting. So we are
19 ready for our roll call.
20 MS. FIELDS: Mr. Carr?
21 MR. CARR: Present.
22 MS. FIELDS: Ms. Mach? Ms. Mach?
23 MS. MACH: Here. Had a hard time
24 unmuting. Thanks.
25 MS. FIELDS: That's okay.

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1 advancement. Oh, no, go back.
2 CHAIRMAN DUZAN: Okay. If she got
3 that, we have a second, so we'll call for a roll
4 vote on that.
5 MS. FIELDS: Mr. Carr?
6 MR. CARR: Yes.
7 MS. FIELDS: Ms. Mach?
8 MS. MACH: Yes.
9 MS. FIELDS: Mr. Matheson?
10 MR. MATHESON: Yes.
11 MS. FIELDS: Mr. Moore?
12 MR. MOORE: Yes.
13 MS. FIELDS: Mr. Nelson?
14 MR. NELSON: Yes.
15 MS. FIELDS: Mr. Smith?
16 MR. SMITH: Yes.
17 MS. FIELDS: Mr. Winegardner?
18 VICE CHAIRMAN WINEGARDNER: Yes.
19 MS. FIELDS: Ms. Wyatt.
20 MS. WYATT: Yes.
21 MS. FIELDS: Mr. Duzan?
22 CHAIRMAN DUZAN: Yes.
23 MS. FIELDS: Motion passed.
24 CHAIRMAN DUZAN: Okay. Next on the
25 agenda is the announcement of DEQ staffing

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1 changes by Shellie Chard.
 2 So Shellie.
 3 MS. CHARD: Good afternoon, everyone,
 4 and thank you for joining us as we embark on our
 5 first ever fully virtual council meeting. We've
 6 gone through a lot of changes here at DEQ over
 7 the last few months, in addition to trying to
 8 adapt to what a new normal looks like. We have
 9 had some staffing changes that, some of them
 10 directly affect the council, so I wanted to
 11 share those with you today.
 12 As most of you probably have already
 13 learned, Mark Hildebrand has moved out of the
 14 Water Quality Division and is now the director
 15 of the Environmental Complaints and Local
 16 Services Division. Richard McDaniels retired
 17 and Mark moved down to lead ECLS. It's great
 18 for ECLS and the agency, but I have to admit I'm
 19 missing Mark quite a bit.
 20 We also are replacing Mark with Brian
 21 Clagg. He's been a longtime water quality field
 22 inspector, enforcement person, and been a
 23 manager in our municipal waste water group now
 24 for a while. So he has moved into that position
 25 that Mark vacated, so you will have the

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1 just wanted to make you aware of those. You may
 2 be dealing with some new faces and new names,
 3 but I have every confidence that they're going
 4 to do great in new roles as we move forward.
 5 And we certainly wish well those that have left
 6 our division and look forward to what the future
 7 holds for them and for us.
 8 If any of you have any questions for
 9 me, I'm happy to answer. And if not, I'll turn
 10 it back over to Mr. Duzan.
 11 CHAIRMAN DUZAN: Any questions? Okay.
 12 We'll move on to the discussion of Rule Making,
 13 changes to OAC 252:641, Individual and Small
 14 Public Onsite Sewage Treatment System. And I
 15 believe we have a presentation by Nicholas Huber
 16 in the DEQ, so...
 17 MR. HUBER: Yes, hello. Nice to see
 18 everyone again. I'm going to say thank you for
 19 joining us, as I get this a little bit larger so
 20 everybody can see.
 21 As Brian mentioned, today I'll be
 22 discussing draft emergency rules that we will be
 23 presenting at the September council meeting for
 24 your vote. We have -- through these emergency
 25 rules, we're looking at authority for presenting

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1 opportunity to work with him in the future.
 2 We also had a change in our air quality
 3 division. Kendall Stegmann is now the director
 4 for air quality. Eddie Terrill is staying on
 5 with DEQ a few more months to help in the
 6 transition and to work on some special projects
 7 before he fully retires.
 8 In the Water Quality Division, most of
 9 you know Terry Lyhane who has been my assistant
 10 director for the last, oh, six or seven years
 11 now. At the end of the month Terry is retiring
 12 from state service, so we will have some
 13 additional staffing changes as we look at who
 14 will be the new water quality assistant
 15 director.
 16 And then those of you that do a lot of
 17 work with our operators' certification,
 18 licensing and training programs, may have heard
 19 that Chris Wisniewski, who has been our program
 20 manager for 20 years maybe, something like that,
 21 has been with the agency since it was formed in
 22 1993. Chris will be retiring, and so we will
 23 have some changes in our operators'
 24 certification program leadership.
 25 There's a whole lot of changes, so I

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1 these. We had House Bill 3461, which was
 2 presented to the House. It did move through the
 3 House with unanimous approval.
 4 Due to the health emergency that we
 5 saw, it did not get out of the Senate and did
 6 not become law. The bill did, however, direct
 7 us to evaluate the reduction of our minimum
 8 length requirements for lateral lines based on
 9 some research that we had conducted.
 10 The second part of this emergency rule
 11 authority we're looking at is the economic
 12 impact potential that these changes would bring
 13 about for a large population of the state.
 14 These changes that we'll be talking about here
 15 shortly, they will present a significant cost
 16 reduction related to the various installation of
 17 various onsite sewage treatment systems.
 18 These changes will be including
 19 redefinition of Zone 1 water body protection
 20 areas. It will be a reduction in combination of
 21 aerobic spray system application sizing, and
 22 then we'll be evaluating the reduction of
 23 conventional subsurface absorption systems for
 24 certain areas of the state.
 25 Our first item here is our water body

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1 protection area. This was brought about in our
 2 2012 rule revision. It identified impaired
 3 water bodies that we felt or was determined
 4 needed additional treatment for the removal of
 5 nitrogen. The initial rule set a Zone 1
 6 distance of 660 feet. Through discussion and
 7 evaluation, we are looking to move that distance
 8 back to 300 feet, which fits in line with our
 9 public water supply separation for these type of
 10 facilities to water wells, still providing
 11 adequate protection for the streams from
 12 nutrients, but still offering an expansion of
 13 the types of systems that can be installed again
 14 in those -- those areas. We are not proposing
 15 any change to Zone 2. Zone 2 strictly
 16 identifies a design requirement for the use of
 17 our profile within 1,320 feet of those listed
 18 water bodies.

19 The second thing here is an optional
 20 reduction for subsurface absorption sizing.
 21 We're proposing language that would establish
 22 optional length sizing for certain counties
 23 located in central and western Oklahoma. The
 24 reduction is being based on some research that
 25 we had completed by Dr. Sergio Abbott at

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1 but there was another that was included in House
 2 bill 3461 that provided some direction to
 3 evaluate the aerobic spray and sizing for parts
 4 of the state. Again, we look back to a rule
 5 revision that occurred in 2007 that amended our
 6 spray application areas in eastern Oklahoma and
 7 based them off the 90th percentile of rainfall
 8 for certain counties.

9 What this resulted in is some
 10 application areas went from a 6,000 square foot
 11 application sizing to almost 20,000 square feet.
 12 What we're proposing in the rules that we're
 13 working on, and will bring to the September
 14 meeting, is taking the application numbers for
 15 some counties in eastern Oklahoma and reverting
 16 them back to what those 2007 numbers were.

17 We're also evaluating more current
 18 rainfall totals and 50 percentile numbers in
 19 evaluating those sizings to ensure that we're
 20 proper in our sizing, but yet not so much that
 21 it's causing that burden, having a need for
 22 extra property. In doing so, we did identify
 23 that the ten sizing charts that we had, there
 24 were some significant overlap in sizing. So we
 25 are now taking those ten charts and moving them

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1 Oklahoma State University. This research was
 2 centered on rainfall totals and their impact to
 3 soil moistures as we move from eastern Oklahoma
 4 to western Oklahoma.

5 The proposed revisions that we're
 6 looking at for the optional reductions would be
 7 placed at 15 percent in central Oklahoma and
 8 30 percent in western Oklahoma. These optional
 9 sizing criteria would be applied to all
 10 conventional subsurface absorption fields.

11 The sizing did not, and the study did
 12 not indicate any recommendation for sizing
 13 decrease in eastern Oklahoma. Found that our
 14 sizing criteria for that part of the state,
 15 based on the rainfall and water usage, was
 16 adequate.

17 Along with these optional reductions,
 18 we're also evaluating the expansion of chamber
 19 sizing to include soil profiling. So we will be
 20 looking at -- and we've been working with
 21 stakeholders in evaluating appropriate sizing
 22 for a chamber type system or other manufactured
 23 media systems.

24 As we move on, we're also looking at,
 25 due to -- I don't recall the actual House bill,

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1 to five. We want to simplify the rule and make
 2 designing these systems that much easier for our
 3 installers.

4 This last item here, we were reviewing
 5 these rules again and identified that small
 6 public aerobic systems, their dispersal sizing
 7 was not included in the permanent rule that we
 8 ran through last year. So in identifying that
 9 missing information, we've added sizing design
 10 criteria for spray and drip aerobic systems, for
 11 small public systems. These will require
 12 changes to Appendix H, along with those other
 13 changes that we talked about previously. So
 14 Appendix H will be the one appendix that will be
 15 revised through this emergency process.

16 The spray sizing will be based on the
 17 residential application areas. Linear square
 18 feet per gallon, per day, and then the drip
 19 sizing will be based on soil loading rates that
 20 we have initially -- or have set up for
 21 residential sizing.

22 As I mentioned, we have been working
 23 with several stakeholders in evaluation of
 24 sizing some of the products that we see here in
 25 Oklahoma. Our goal is between now and

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1 September, is continue those outreach meetings,
 2 work with our tribal partners and our
 3 stakeholders here to discuss these rules, and
 4 make a draft for your review in September.
 5 In conclusion of this, we will be
 6 bringing these back to the September meeting for
 7 a vote. The emergency rules pending your
 8 approval, recommendation, would go to the board
 9 meeting in November. And then, again, we would
 10 take this to the permanent processes required in
 11 the January council meeting, and then that
 12 regularly scheduled February board meeting for
 13 the 2021 legislative session.
 14 For all questions concerning the rules
 15 that we provided and we discussed here today and
 16 then the drafts moving forward, I'm the contact.
 17 My name's Nicholas Huber. My e-mail, I'll leave
 18 here. I did provide my office and cell number.
 19 Currently it's all one number with our
 20 teleworking situation. I'm happy to answer any
 21 questions that may come up in the future.
 22 This concludes my presentation. I'd
 23 like to turn it back over to Brian for any
 24 questions.
 25 CHAIRMAN DUZAN: Okay. Thank you. Are

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1 that's what's in place.
 2 MR. HUBER: Yes. Thank you, Mr. Smith.
 3 This is Nicholas Huber. To the first question,
 4 the rainfall numbers, as with the study that
 5 Sergio Abbott, Mr. Abbott had conducted, we were
 6 dependent on the mesonet information that was
 7 provided. So average rainfall totals were
 8 provided and gathered from the mesonet data.
 9 I'm unaware of the actual numbering or
 10 identification for those. I can definitely get
 11 into that and get that information for you.
 12 I know in 2007 we made the change in
 13 eastern Oklahoma to the 90th percentile
 14 rainfall, which falls in line with our design
 15 criteria for 656 facilities. Due to the
 16 evaporation or lack of evaporation that occurs,
 17 the change was also made to the application
 18 areas because -- just the sheer impact that the
 19 rainfall totals have in that part of the state.
 20 We're talking, of course, Sequoyah County, Adair
 21 County.
 22 It did not, however, take into effect
 23 any absorption that may occur or plant uptake in
 24 those areas. So we felt that the 50th
 25 percentile rainfall was more appropriate,

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1 there any questions or discussion from the
 2 Council on this?
 3 MR. SMITH: Brian, this is Bill Smith.
 4 Can you hear me?
 5 CHAIRMAN DUZAN: Yeah, go ahead.
 6 MR. SMITH: I have -- I have one
 7 comment and two questions. First of all, I have
 8 looked and compared our proposed regulations
 9 with Kansas, Texas and Arkansas, and we are
 10 still more conservative than either of our --
 11 any of our neighboring states, so I -- I think
 12 that's really good.
 13 My next question is, on your 90th
 14 percentile calculation of rainfall, are you now
 15 using the Atlas 14 numbers instead of the old
 16 TP-40 numbers for rainfall, as most everybody is
 17 now using that Atlas 14? It slightly increases
 18 the rainfall precipitation across the nation,
 19 and I didn't know if you might be using that.
 20 And then my last comment or question
 21 is, if there's an existing public system that
 22 has to be replaced for whatever reason, I'm
 23 assuming that the replacement would be done
 24 under the new regulations and not have to be
 25 replaced with the old regulations, because

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1 because it is more representative of the impact
 2 that the rainfall would have at these
 3 application sites. So I can definitely find
 4 that information and provide some of that to you
 5 and make that available at a later time.
 6 The second part of your question is any
 7 replacement, modification or installation of a
 8 new system or of adapting an existing system
 9 would need to comply with the current versions
 10 that were in effect at that time. So we would
 11 look at, if somebody needed to make a
 12 replacement of a system, they would be subject
 13 to the rules that are in effect at that time.
 14 So if the emergency rules move forward
 15 and are approved by the governor, I would say
 16 around December, somebody needed to comply at
 17 that time, then we would allow them that
 18 installation, under those rules.
 19 MR. SMITH: Thank you very much.
 20 CHAIRMAN DUZAN: Okay. Any other
 21 questions or comments?
 22 MR. NELSON: Hey, Brian, this is Jon
 23 Nelson. I have a question.
 24 CHAIRMAN DUZAN: Okay.
 25 MR. NELSON: Nicholas, you had

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1 mentioned stakeholders included installers, and
 2 I think you said the tribes. Were there others?
 3 MR. HUBER: So we have been speaking
 4 with a couple of manufacture's who sell our
 5 product here in Oklahoma, Infiltrator is one.
 6 I've been working with Elgin Systems on some
 7 other interest in our rules. You know, we have
 8 been reaching out to several of the tribes, the
 9 Chickasaw Nation, IHS. The plan is to continue
 10 that conversation in our graphs of these rules
 11 as we move forward.
 12 MR. NELSON: Okay. And -- and so the
 13 research that was done actually preceded the
 14 proposed action by the legislature, right?
 15 MR. HUBER: Yes. So the -- the
 16 research was actually, I believe, a three-year
 17 project that was begun in 2000 and -- I think
 18 ended 2016, beginning of 2017. It was concluded
 19 over the Christmas time frame of 2019. It is
 20 still in the process of being peer reviewed and
 21 published, but that was a three-year project
 22 that was worked on with several of the
 23 undergraduates that Professor Abbott oversees.
 24 MR. NELSON: And that was driven by
 25 what?

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1 was in the process of being reviewed and
 2 presented for vote when Covid hit. And that
 3 hiccup, I guess is one way to put it, resulted
 4 in that bill not becoming law, which would have
 5 permitted us to have these changes implemented
 6 by October 1.
 7 MR. NELSON: Okay. And the last
 8 question, just to make sure I understand, Zone
 9 1, which you dropped the clearance from 660 feet
 10 to 300 feet, that's to the highest pool level of
 11 reservoir, correct?
 12 MR. HUBER: Yes. That would be to
 13 the -- I don't have the definition in front of
 14 me. I do believe it's to the normal pool
 15 elevation. Because it is a water body
 16 protection area is -- sorry. Bear with me real
 17 quick while -- yeah, here it is. It is the
 18 highest normal pool elevation established for a
 19 reservoir or within -- it would be within
 20 300 feet, pending these -- approval of these
 21 rules in September, that streambed.
 22 MR. NELSON: Okay. So it's the non --
 23 the highest normal pool level?
 24 MR. HUBER: Yes. Correct.
 25 MR. NELSON: All right. Thank you.

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1 MR. HUBER: I believe that some of the
 2 information --
 3 MR. NELSON: I guess what I'm asking,
 4 Nick -- you know, reminded me of the driving
 5 forces behind these changes. I don't recall it.
 6 MR. HUBER: So the main driving force
 7 behind this is there was some legislative
 8 inquiries that had come about regarding sizing
 9 of our conventional subsurface absorption
 10 fields. They were concerned that the sizing
 11 that we had, and had established for quite some
 12 time, was too conservative and that we needed to
 13 evaluate the reduction of those systems
 14 significantly. So our response to that inquiry
 15 and that questioning was the presentation of a
 16 project through OSU to evaluate the potential
 17 for the reduction of those footprints.
 18 MR. NELSON: Okay. So say -- so
 19 passing this in September would likely satisfy
 20 the legislative concerns?
 21 MR. HUBER: Yes, that is correct.
 22 The -- what we initially had is the bill of --
 23 the House bill of 3461 that was penned by
 24 Representative Russ, was moving through the
 25 House and had made it through the Senate, and

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1 MR. HUBER: Thank you.
 2 CHAIRMAN DUZAN: Any other questions or
 3 comments?
 4 MS. MACH: Hi, this is Mary Elizabeth
 5 Mach.
 6 Nicholas, do you or any of the other
 7 council members or folks at DEQ have any
 8 concerns with these changes in the rules from an
 9 environmental perspective?
 10 MR. HUBER: No, we don't. The -- the
 11 research that was conducted in the presentation
 12 that was provided, along with the information
 13 that was there, does indicate that over the
 14 20-year time frame that the model was run, there
 15 was no significant impact or failures in the
 16 reduction of these systems. And the 30 percent
 17 that we're proposing in western Oklahoma, we
 18 feel is still a conservative number for that
 19 area, based on that research.
 20 Part of our evaluation was to ensure
 21 that the amount of reduction that was being
 22 proposed did not provide or produce any
 23 potential for detriment to environment or human
 24 health. These reductions are based on the
 25 aridness of those areas still within what we

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1 would consider to be a conservative number.
2 MS. MACH: Okay. Thank you.
3 CHAIRMAN DUZAN: Any other questions or
4 comments?
5 Normally, we open this up for questions
6 or comments from the public. I'm not sure how
7 that works in --
8 MS. HATFIELD: The public -- the public
9 comment period is now open. Please click on the
10 Q and A tab at the bottom of your screen to
11 comment. You may comment in two ways. You may
12 either type in your question or comment. It
13 will then be read aloud and answered or you may
14 type in your name and phone number. The system
15 will call you and you will be able to voice your
16 comment. You will have three minutes and will
17 be alerted when 30 seconds remain.
18 CHAIRMAN DUZAN: Okay. So I guess
19 we'll wait a couple of minutes here and see if
20 we get any questions.
21 MR. BACHELDER: Hello. Hello.
22 CHAIRMAN DUZAN: Yes, go ahead.
23 MS. HATFIELD: Mr. Bachelder, you are
24 now connected and you may begin your three
25 minutes.

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1 chambers are in your rules and have been for, we
2 think, something like 15 or 16 years.
3 The first infiltrator manufactured
4 chamber product was approved by letter in 1999.
5 And so Infiltrator has been selling and
6 marketing and seeing systems installed with
7 their products for over 20 years. And in all
8 instances, because of the efficiency of the
9 technology, these chamber products, these arched
10 plastic modules which click together in the
11 trench, they take the place of gravel in
12 trenches, regardless of where we are on the
13 planet. And they're more efficient because they
14 don't take up all the space that stone takes up,
15 rock takes up, and they also provide an
16 unfettered basal area in the excavation for the
17 initial treatment of affluent by way of biomat,
18 and then subsequent distribution of the affluent
19 into the subsurface native soils. There's more
20 of that available if there isn't a bunch of
21 stone, rock, gravel sitting on that interface.
22 If we switch from the draft text to --
23 to Appendices H, I'd ask you to roll to the
24 first page where you'll see Figure 1 is a
25 conventional subsurface absorption field table,

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1 MR. BACHELDER: Well, thank you very
2 much. Before I start, I'd ask if you have
3 access to the draft text of the proposed rule
4 language, as well as the draft Appendices H.
5 I'd like to make reference to those, and it
6 might be a little bit easier to follow my
7 comments if you are. Thank you.
8 My name is Dick Bachelder and I'm a
9 senior regulatory specialist at Infiltrator
10 Water Technologies. I've been in the business
11 about 30 years and my area of expertise is in
12 regulation and Adecco pools.
13 Infiltrator is the Adecco based
14 manufacturer of on-site septic system products
15 all across the board. Germane to today, it's --
16 we are a leading manufacturer of chambers, of
17 something that Mr. Huber mentioned in his
18 comments.
19 If we go to page one of the draft text,
20 the fifth or sixth, seventh, or eighth
21 definition in the rules today, and it's
22 unchanged in the new rule, conventional
23 subsurface absorption field includes media
24 filled EGG gravel poly fine and chamber --
25 there's the word chamber -- trenches. So

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1 and Figure 2 is a conventional subsurface
2 absorption field utilizing chambers when both
3 are used in a Perc test.
4 In a quick glance at the numbers in the
5 table, I'll direct your attention, please, over
6 to each additional bedroom column on the right
7 side. And the second one down, 60 to 30
8 minute-inch Perc rates or -- in Figure 1 is 100
9 feet for each additional bedroom. And if you
10 slide down to table 2, you'll see that's 80.
11 That's a 20 percent change.
12 If we move down a couple more, you'll
13 see the conventional gravel is 200, and then
14 table 2, the fourth cell below each additional
15 bedroom is 160. So chambers from the past many,
16 many years have enjoyed a 20 percent trench
17 length -- reduction is a tricky word, but that's
18 what it's been in Oklahoma forever. That's
19 loosely termed. And I would add that
20 chambers -- since we started there are over
21 30,000 Infiltrator manufactured plastic leaching
22 chambers in the ground, in Oklahoma today.
23 I want to point out, if you slide over
24 to page two and -- page two, figure 4, is the
25 table that's being proposed to provide the

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1 50 percent reduction in Zone 6 through 8. If
2 you see that in the title of figure 4. So those
3 numbers reflect a 50 percent reduction from the
4 gross trench length area required, and has been
5 required for years.

6 The department's not recommending any
7 change to the baseline sizing in the east, but
8 in the --

9 MS. HATFIELD: Sir, your time has
10 passed. If you could please wrap it up in about
11 the next minute, that would be wonderful. Thank
12 you.

13 MR. BACHELDER: Wow. Okay. Thank you
14 very much. I appreciate that.

15 In short, I'm thrilled to hear
16 Mr. Huber say that discussions are continuing
17 with stakeholders, because we've written three
18 letters since we learned about the emergency
19 rules in October. And we had a meeting with the
20 staff at DEQ three weeks ago, and we're
21 disappointed that there's no language in the
22 draft text, or tables in the draft appendices,
23 that represent continued sizing for chamber
24 technology.

25 We feel very strongly that there isn't

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1 over the next several weeks.

2 CHAIRMAN DUZAN: Okay. Is the data
3 that you got from OSU accessible or can be
4 passed on, I guess?

5 MR. HUBER: Yes, this is Nicholas
6 Huber. And to Brian's question, is -- that
7 information is -- has been -- I believe it has
8 been peer reviewed and is in the process of
9 being published. I have not had any
10 conversations with Professor Abbott concerning
11 that -- the status of that project for the last
12 couple of weeks. I expect it to be completed
13 fairly soon.

14 I think with everything, that the Covid
15 health emergency has probably delayed some of
16 that from occurring, but it is something that as
17 soon as it is available we will provide via our
18 website and to those stakeholders.

19 CHAIRMAN DUZAN: Okay. Any questions
20 or comments from the council about his
21 questions?

22 MS. MACH: This Mary Elizabeth. I
23 guess I was unclear exactly what the -- what
24 exactly he was disagreeing with.

25 MR. HUBER: Yes, this is Nicholas

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1 any technical justification for removing it, and
2 we're looking forward to see the rules presented
3 to you for vote in September, including language
4 in tables that represent the sizing that's been
5 in place for a long, long time.

6 And, finally, I would mention that we
7 are anxious to see the study that was undertaken
8 sometime ago and is being used as a basis for
9 the sizing being put forward. We're not
10 challenging the sizing, but we are also
11 frustrated with the inability to be able to
12 review the science behind the changes that are
13 proposed. Thank you very much for an
14 opportunity to comment.

15 MS. HATFIELD: Thank you for your
16 comment.

17 CHAIRMAN DUZAN: Nicholas, do you have
18 a response?

19 MR. HUBER: Yes. This is Nicholas
20 Huber. I would just say that, you know, we do
21 look forward to continuing to work with Dick
22 Bachelder, Infiltrator, and we -- as we continue
23 to evaluate how best to provide chamber sizing
24 in our rules that's beneficial for everyone, and
25 look forward to it occurring -- to that process

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1 Huber. I think what Dick's point was, is in the
2 version of the draft that we had sent out Monday
3 of last week, which you guys have, we did not
4 include any of the chamber sizing as was
5 discussed today. We do intend --

6 MS. MACH: Is that (inaudible) lateral
7 length?

8 MR. HUBER: Say that again, please.

9 MS. MACH: That was just with regard to
10 lateral length?

11 MR. HUBER: Yes. So the chamber
12 Infiltrator is looking to have sizing criteria
13 in these draft rules, which was not included as
14 we were still in discussions with them, working
15 towards a mutually agreeable point.

16 MS. MACH: Okay. Thank you. I
17 appreciate the clarification.

18 MR. HUBER: You're welcome.

19 MR. NELSON: So, Nick, this is Jon
20 Nelson. Mr. Bachelder feels like numbers
21 relating -- the design numbers in the tables
22 relating to chambers type design or chamber type
23 system should be less?

24 MR. HUBER: This is Nicholas. Yes, I
25 think, based on their product and their

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1 information, that the sizing associated with the
2 chambers, because they're more efficient than
3 our standard arch and pipe systems, warrant
4 having a separate sizing that is less than what
5 we have set for our standard systems now.
6 MR. NELSON: And he has presented some
7 kind of basis for this to his staff, to y'all?
8 MR. HUBER: Yes, he has -- we have been
9 in receipt of the information from the company
10 and we've been reviewing that, which we will
11 provide when we bring these rules again.
12 MR. NELSON: Okay. Thanks.
13 MS. MACH: Nicholas, hi. This is Mary
14 Elizabeth again. From what you had mentioned
15 regarding the research surrounding the work that
16 the OSU performed, it sounded like to me it had
17 more to do with percolation. Will that -- does
18 that research address the chamber sizing?
19 MR. HUBER: Yes, this is Nicholas. So
20 the research that was conducted, in a quick
21 version, evaluated the positive potential under
22 a centimeter of water above a certain soil
23 group. So the model was run to determine, not
24 necessarily percolation rates, but case stats of
25 those known soils with a certain amount of

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1 needed modifications of the rules, result of
2 good collaboration of DEQ, OOWA and others.
3 CHAIRMAN DUZAN: Okay. Are there any
4 other questions or comments from the public
5 then?
6 Any more from the council?
7 Okay. I think we'll go ahead and move
8 on since we won't be voting on this at this
9 time. The next thing is a presentation on
10 activities related to the Oklahoma Strategic
11 Alliance, Brandon Bowman and J.R. Welch. So
12 I'll turn it over to them.
13 MS. HATFIELD: We actually have one
14 more public comment that was just received --
15 MR. LENTZ: Hello.
16 MS. HATFIELD: -- from David Lentz.
17 David, you have three minutes, and you
18 may begin whenever.
19 MR. LENTZ: Okay. Thank you. My name
20 is David Lentz. I'm from Infiltrator Water
21 Technologies and I'm a co-colleague of Dick
22 Bachelder's. I just wanted to clarify on a
23 couple of the questions that came up about the
24 sizing of graveless systems.
25 And the sizing that Infiltrator has

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1 applied water over a 24-hour period, any failure
2 rate that may occur.
3 So it made assumptions based on our
4 standard sizing for our lateral fields, for
5 certain soil groups in climate zones that they
6 identified through the evaluation of mesonet
7 data. That information was then extrapolated to
8 show over, I believe, 20 years the incidents of
9 failure, which they documented as being ponding
10 waste water over that infiltrated surface of
11 more than one centimeter. We would be able to
12 expand it upon any sizing, for any system in
13 Oklahoma that is reliant on location and
14 subsurface location.
15 CHAIRMAN DUZAN: Okay. Is there any
16 other questions or comments from the general
17 public?
18 MS. HATFIELD: Yes, there is a comment
19 from Kevin Roark. He is the president of the
20 Oklahoma Onsite Waste Water Association. His
21 comment is: Nicholas Huber has presented much
22 needed modification (inaudible) --
23 (At which time, there was an
24 unidentified interruption.)
25 MS. HATFIELD: -- has presented much

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1 proposed to the DEQ staff is fully consistent
2 with chamber sizing that's used around North
3 America. Chambers have been in use for 30 years
4 in North America. When they were made of
5 plastic, they were used 50 years ago; when made
6 in concrete, in eastern Canada and the U.S.
7 So what we have proposed is chamber
8 sizing that is at least as large as the sizing
9 in place for Texas, and Texas has had chamber
10 sizing in their rules for over 20 years. So
11 we're making sure that there's a level of
12 conservatism incorporated into what we propose.
13 And the way the chambers are sized is always
14 relative to a gravel and pipe trench.
15 So when what we're proposing is in the
16 east where there is no relevant pipe sizing
17 reduction, there would be a 25 percent chamber
18 sizing reduction. In the central area, there
19 would be a 10 percent difference in chamber
20 versus gravel and pipe sizing, and in the west
21 gravel and pipe and chambers would be on a
22 one-to-one ratio. There would be no difference
23 in the length of trench.
24 Now, this -- like I said, this sizing
25 is consistent with what we do on a national

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1 basis, and we have studies conducted by
 2 independent third parties that have been
 3 accepted by other state agencies that support
 4 the type of sizing that we're using. That
 5 concludes my comment. Thank you.

6 CHAIRMAN DUZAN: Okay. Any other
 7 additional questions or comments from the
 8 council on that? Or from Nicholas, if he has a
 9 response?

10 MR. HUBER: No, not at this time.
 11 Thank you.

12 CHAIRMAN DUZAN: Okay. Okay. I
 13 think -- I guess now we're ready to move on to
 14 the presentation on the Oklahoma Strategic
 15 Alliance, so Brandon and J.R.

16 MR. BOWMAN: All right. Thank you,
 17 sir. Give me a few moments while I pull up my
 18 slides.

19 All right. Good afternoon, everyone.
 20 I'm Brandon Bowman. I'm manager of the Capacity
 21 Development section here in the Water Quality
 22 Division of DEQ. I'm joined today by J.R.
 23 Welch, chief operations officer with the Rural
 24 Water Association. We're going to take a little
 25 time to tell you about the Oklahoma Strategic

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1 control it.

2 Our second area of focus is rate
 3 analysis. We help systems determine all of
 4 their financial needs and what rates are
 5 necessary to fund all of these needs.

6 Our third area of focus is long range
 7 sustainability, which is a comprehensive suite
 8 of tools and assistance geared toward helping
 9 water systems become resilient and sustainable.

10 Let's jump into each of these just for
 11 a moment to talk about what we do with our
 12 results. With water loss control, when we go
 13 out and we talk to systems, a lot of time we ask
 14 systems, what's your water loss? And they use a
 15 very simple equation. They have, okay, my water
 16 loss is 30 percent, and that -- I have water
 17 produced, minus water sold.

18 And what they're calling water loss is
 19 actually unaccounted for water. For example, if
 20 they produce 100,000 gallons in a year's time
 21 and they sell 70,000 gallons to their customers,
 22 they'll tell us that I have 30 percent loss.
 23 But what they mean is, they have 30 percent of
 24 their produced water that they can't account
 25 for.

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1 Alliance, about the work that we do and the
 2 results of helping small rural water systems
 3 across the state.

4 The members of the Oklahoma Strategic
 5 Alliance are the office of the Secretary of
 6 Energy and the Environment, DEQ, Water Resources
 7 Board, and the Rural Water Association. And all
 8 of us were working to help small water systems,
 9 small municipalities, small rural water
 10 districts across the state. And we work
 11 together, and we knew the work that each of us
 12 was doing. But when the Strategic Alliance was
 13 ratified by the governor on September 3rd, 2019,
 14 it formalized our commitment to work together,
 15 and we were able to take advantage of synergies
 16 and force multipliers to accomplish more and
 17 have a greater, positive impact on small rural
 18 water systems than we were able to achieve
 19 separately. Essentially, we were able to build
 20 off each other's strength, and we've done a lot
 21 of good.

22 Our work has been focused in three main
 23 areas. The first one is water loss control. We
 24 help systems understand the amounts and values
 25 of the uses and losses of their water and how to

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1 By participating in our program, we're
 2 moving away from unaccounted for water. We are
 3 accounting for all water uses and losses. We're
 4 teaching systems how to break that unaccounted
 5 for number down into amounts of water that's
 6 actually lost to leaks, amounts of water that
 7 may be lost to bad or nonfunctioning meters or
 8 antiquated billing software.

9 And a lot of times the real eyeopener,
 10 especially for small towns, is how much they're
 11 giving away in unbilled usage. How much are
 12 they using for municipal purposes, like a
 13 swimming pool? How much are they using for
 14 flushing? Or how much is the fire department
 15 using?

16 You know, when we're talking with
 17 towns, sometimes they panic. They think, well,
 18 I'm going to have to start billing my fire
 19 department or billing my municipality for the
 20 swimming pool. That's not what it's about.
 21 It's simply about knowing how much water is
 22 being used for these different purposes so you
 23 can budget appropriately.

24 We've completed 175 audits across the
 25 state over the past four years, and this is an

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1 idea of, on average, how things look for 175
2 systems. About 74.3 percent of all the water
3 produced generates revenue for the system.
4 Essentially, 75 percent of the water they
5 produce makes them money. These unbilled,
6 authorized consumption, that's what they're
7 giving away for municipal purposes, for
8 flushing, for firefighting, about 3.7 percent.
9 Real losses, water that's actually lost
10 to leaks is 19.4, and this is what we're
11 focusing on with our leaks detection, what we
12 want to reduce. The remaining percentage is
13 mainly customer metering inaccuracy, the
14 2.1 percent, and a very small amount lost to
15 data handling errors and theft.
16 For this 175 systems, total apparent
17 loss, which is water that's lost through bad
18 metering or data manager problems is 900,000,000
19 gallons a year, valued at 4.9 million dollars
20 per year. Total real loss, which is water
21 actually lost to leaks, 6.9 billion gallons a
22 year, valued at 8.4 million dollars a year
23 production cost. And this is just for 175
24 systems. There are 1,392 water systems across
25 the state, and we're going to try to help every

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1 to get them fixed.
2 With meter analysis, the Rural Water
3 Association specialists come out and they test
4 all production meters and the oldest 10 percent
5 of their customer meters. It gives the system
6 an idea of how accurate their meters are,
7 particularly their customer meters.
8 We teach systems that your customer
9 meters are your cash registers for your system.
10 They've got to be accurate so that you can
11 generate the revenue that you need to operate.
12 So far we've conducted leak detection
13 at 28 systems. We've identified 152 leaks that
14 account for 810 million gallons a year of real
15 loss, identified. We've done meter analysis at
16 11 systems, and 26.4 of customer meters, that
17 oldest 10 percent are inaccurate. And,
18 surprising, 50 percent of production meters are
19 inaccurate.
20 With customer meters, it's primarily
21 age. As meters age, they tend to under
22 register. With production meters it's either
23 age or it may be improper installation or wrong
24 size. Meters that are trying to measure flow
25 that's either below or above their design rate

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1 one of them if they're interested.
2 Okay. So you've had a water loss audit
3 done. You've had DEQ come out and meet with
4 you, show you how the water audit software
5 works. It's the American Water Works
6 Association M36 method. We give -- we teach
7 them how to do it; we give them the software.
8 It's free. So now they have understanding of
9 their unbilled usage and what their loss levels
10 are like.
11 From that point on, we refer them to
12 our friends over at the Rural Water Association
13 for leak detection and meter analysis help. And
14 this help is not a one-day event. It's not like
15 an engineer or a specialist or a circuit rider
16 come in and spending a day with the system.
17 When the Rural Water Association comes out to do
18 leak detection and meter analysis help, they're
19 with the system all day for two to three to four
20 weeks teaching system operators how to find
21 leaks, using standard, off-the-shelf equipment,
22 but in new ways that they may not have
23 considered before. We teach night listening and
24 valve squealing and zone metering to find these
25 leaks and give the system information they need

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1 will measure incorrectly. We give systems the
2 information they need to make that say, make a
3 correction there.
4 Okay. So DEQ has come out and
5 performed a water loss audit. The Rural Water
6 Association has come out and helped with leak
7 detection and meter analysis. That helps
8 systems to identify their problems, but if they
9 want to make real change they have to act on
10 this information.
11 We've went back. We've visited with
12 the 22 that rural water has conducted leak
13 detection with. We asked them, what happened?
14 About 50 percent of the identified leaks have
15 been repaired. We've saved over 490 million
16 gallons of water, valued at 1.2 million dollars.
17 That's outstanding work.
18 We're noticing that water systems are
19 also becoming more accurate with data recording
20 and management. By going in and teaching water
21 loss auditing, it goes back to the philosophy of
22 what gets measured, gets managed. Systems are
23 looking at their unbilled usage and starting to
24 manage it.
25 We're noticing that by doing water loss

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1 audits, and returning and seeing how things are,
2 water -- the operations cost of these water
3 systems are increasing, partially because the
4 cost of business is going up and partially
5 because recordkeeping is improving. Apparent
6 loss and unbilled usage is decreasing. Systems
7 are understanding and finding their inaccurate
8 customer meters.

9 They're listening to what we have to
10 say about these meters being their cash
11 registers and they're changing them out for more
12 accurate meters. A system that has a
13 significant portion of inaccurate, under
14 registering customer meters can undertake a
15 meter replacement program and have the program
16 pay for itself and improve revenue.

17 Moving on to rate analysis. What we're
18 teaching here -- we're not about raising rates.
19 A lot of times we go and visit these systems,
20 they -- you're coming to do a rate analysis; my
21 water rate's going to go up. That's not exactly
22 what we're talking about. We don't talk about
23 raising rates, we talk about charging the right
24 rates.

25 The right rate for a water system is

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1 a change in your rates and it's just because you
2 feel we need to generate more revenue, odds are
3 you're just shooting in the dark. You need it
4 backed up by evidence.

5 With our long range sustainability
6 plan, it is a comprehensive group of technical
7 assistance all geared towards promoting
8 resilience. One of the things that we like to
9 talk about is a water system in many
10 environments. A water system is used to
11 thinking about themselves in a physical
12 environment. We're concerned about quality and
13 quantity of water that they're treating for our
14 customers.

15 Water systems also exist in an
16 environment with other systems around them. We
17 encourage systems to develop mutual aid
18 agreements, to consider regionalization and
19 consolidation if it's important and makes sense.

20 They also exist in an economic
21 environment. You know, fuel costs go up,
22 electrical costs go up. Systems need to be
23 looking at that and planning for it with their
24 budgeting and their rates so they're not taken
25 by surprise.

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1 one that fully funds all aspects of the water
2 system. It fully funds operations and
3 maintenance, it fully funds that contingency
4 fund that is there for emergencies, and it fully
5 funds depreciation and capital improvement
6 accounts, so the water system has money set
7 aside to repair infrastructure when the
8 infrastructure has failed and reached the end of
9 its useful life. And we want systems to pay
10 their operators, their business office staff,
11 their managers, a salary that is worthy of the
12 experience and dedication that these
13 professionals are showing.

14 We've completed nine rate studies. On
15 average, operating ratio has been increased by
16 .33, and water systems that have participated
17 have increased their budgets by 2.06 million
18 dollars per year.

19 Having a rate analysis completed by
20 members of the Strategic Alliance, it's --
21 it's -- we meet with them, we do the rate
22 analysis, we generate the data and the evidence
23 that's needed to support a change in rates,
24 because rates that are backed by evidence
25 typically get adopted. If you try to institute

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1 Systems also exist in a political
2 environment. Rules change. Regulations change.
3 A sustainable and resilient system is keeping an
4 eye on proposed rule changes and proactively
5 takes action to be ready and prepared.

6 Finally, water systems exist in the
7 social environment. Facebook. We live in the
8 age of social media. Water systems need to have
9 a good grip on how to manage their social media
10 presence and use it for their advantage, to keep
11 their customers informed and generate customer
12 support for water system activities, and to
13 involve these customers in the operation of the
14 system. Water systems that are not aware of
15 social media live at the mercy of it. We teach
16 systems how to adapt, how to take this tool and
17 use it for their own benefit.

18 At this point I'm going to turn it over
19 to J.R. and he's going to talk a little bit
20 about the apprenticeship program.

21 MR. WELCH: Hi, I'm J.R. Welch with
22 Oklahoma Rural Water Association, and I am going
23 to be speaking to you about the apprenticeship
24 program. This is a new program we have just
25 rolled out at ORWA. This program comes to us

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1 through our National Rural Water Association
2 that we're members of.
3 This is an approved program. It's
4 approved by the Department of Labor, Office
5 Apprenticeship. It's developed for incumbent
6 employees and future water and waste water
7 system operation specialists. It will provide
8 consistent base level of knowledge and training
9 within the industry. The pre-apprenticeship
10 program is designed for ages nine through 12th
11 grade students. It introduces students to the
12 industry who have job shadowing opportunities,
13 STEM fairs, job career, tech job fairs also.
14 Okay. Apprenticeship Program, it is a
15 water system operations specialists and waste
16 water systems operations specialists program.
17 Each program consists of a minimum requirement
18 which is a two-year term, approximately 4,000
19 hours of on-the-job learning, 288 hours of
20 formal classroom training that we will provide
21 at ORWA with our partners. Eighteen years old
22 or older to enter the program, is the age
23 requirement. The hourly wage at the end of this
24 two-year completion will be \$17 per hour.
25 Okay. What this means for the

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1 get involved with this program. To get involved
2 in this industry. To seek career opportunities
3 in this industry.
4 We're also working with the possibility
5 of utilizing the GI bill for someone in the
6 military that may be about to come out of
7 service in the military. We're -- we have been
8 in some discussions with some people over at
9 Tinker with this, to possibly work right here in
10 Oklahoma City, to assign these -- these veterans
11 coming out of that, and to -- you know, systems
12 that have water and waste water opportunities,
13 for them to go into this apprenticeship program.
14 With that being said, a system -- the
15 employee does not have to work for the system
16 specifically. Anyone can sign up for this
17 apprenticeship program. It is owned and ran by
18 ORWA. It's approved through Department of
19 Labor.
20 So an apprentice may be coming from out
21 of state and want to enter in through this
22 apprenticeship program. We will work to place
23 them with one of our host cities for this
24 apprenticeship program. And we're currently
25 seeking funding to put into that program, to

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1 apprenticeship program. We are currently in
2 conversation, and have had inquiries and
3 requests, from the City of Tahlequah and the
4 City of Lawton for the program. Okay.
5 There's -- there's multiple ways that you can
6 enter this program, and it's designed to fit
7 multiple entities and multiple apprentices
8 coming into the program.
9 What's not listed on here is this also
10 covers military. We have a -- we are currently
11 in the process of -- of being able to administer
12 funds through the Veterans Affairs Association.
13 Okay. This program is designed -- well, the
14 reason why it fits into this program with
15 sustainability, when we talk about
16 sustainability of the systems that we've been
17 working with, one of our biggest assets that
18 we're about to lose over the next ten years is
19 50 percent of this workforce, of these
20 qualified, knowledgeable employees that we're
21 about to lose in this industry.
22 That is what this apprenticeship
23 program is designed to help with, to encourage
24 these students from a young age on the
25 pre-apprenticeship program, to -- to then -- to

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1 assist those apprentices with the systems, to
2 put them into that apprenticeship program.
3 That's just kind of some highlights of
4 it. It's much more in depth than that, but we
5 wanted to kind of bring that to you a little
6 bit, because it fits right into the same
7 sustainability of the system, on the workforce
8 development side of it, and that's what this
9 program is geared toward, is the workforce
10 development.
11 We want to capture that knowledge of
12 guys like myself and some of the guys in the
13 industry.
14 I know, Mark, you're on here from ORWA.
15 We want to capture the knowledge of guys like us
16 that's been in this industry and pass it on with
17 this program. So in ten years, losing 50
18 percent of that workforce -- and that's a
19 nationwide average. That's huge for this
20 industry, that we're going to be experiencing
21 that loss over the next ten years.
22 So that's what this apprenticeship's
23 about. You'll be seeing a lot more about it in
24 the very near future.
25 MR. BOWMAN: Thank you, J.R. One thing

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1 I'd like to mention is that all the help
 2 provided by the Strategic Alliance participating
 3 system is 100 percent free, without charge. And
 4 if the system serves 10,000 or fewer people,
 5 they qualify for help.

6 And for every dollar invested in our
 7 programs, we've generated over \$6 direct
 8 economic benefit for participating systems. The
 9 Christian Science Monitor just wrote an
 10 interesting article about our leak detection
 11 program that you can Google and read. And we
 12 regularly get letters of thanks, letters of
 13 appreciation from water systems, detailing some
 14 of the good results that they've achieved by
 15 participating in our program.

16 Future plans. We're going to continue
 17 our work with water loss, control and rate
 18 analysis. Fixing leaks, controlling loss, it's
 19 not a once and done thing. You have to work at
 20 it continuously. Leaks appear and must be
 21 tracked down and corrected. New costs impact
 22 water system budgets. They need to be looking
 23 out for that, having a regular rate study,
 24 implementing those right rates to cover all
 25 their needed costs.

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1 With all these things, it's always up
 2 to the system to make the corrections. So we
 3 can go out there, we can do a water loss audit,
 4 we can help them find the leaks, but improving a
 5 water system has always been, and it always will
 6 be, a do-it yourself task. We're here to
 7 support those water systems, water operators,
 8 that are willing to roll up their sleeves, stand
 9 alongside us, take action, and improve
 10 themselves to reach sustainability.

11 And thank you. That concludes our
 12 presentation. We'd be happy to answer any
 13 questions.

14 CHAIRMAN DUZAN: Okay. Thank you,
 15 guys. A lot of good valuable information you
 16 presented there. And I think that most of us
 17 have seen the numbers of the amount of water
 18 that's been saved at some of these various
 19 meetings, and it's truly remarkable. And
 20 especially some of the water districts in the
 21 western part of the state can't really afford to
 22 be losing much water at times.

23 Any other questions or comments from
 24 the council?

25 VICE CHAIRMAN WINEGARDNER: Yes, this

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1 We're also going to be increasing our
 2 focus on asset management and source water
 3 protection. With asset management and capital
 4 improvement, we know that infrastructure wears
 5 out. Systems are funding that capital
 6 improvement and managing their capital assets
 7 with asset management, they're better able to
 8 maintain the condition of their infrastructure
 9 and they have their own funding for repairs.
 10 They don't have to go around hat in hand looking
 11 for grants.

12 The final focus of our program is, with
 13 our long-range sustainability we're going to be
 14 expanding the focus on disadvantaged
 15 communities. We are joining forces with the EPA
 16 through the water infrastructure improvements
 17 for the nation, disadvantaged communities grant,
 18 and we're going to be bringing all the skills
 19 and tools that we have with sustainability and
 20 focusing on systems that are in violation of the
 21 Safety Drinking Water Act, and bringing every
 22 tool we have to bear to help them out, to see if
 23 we can't give them the knowledge and skills they
 24 need to lift themselves out of noncompliance and
 25 back into producing safe water.

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1 is Duane. I think it's a wonderful thing that
 2 we are showing the people working on the water
 3 systems are true professionals. We're giving
 4 them a good opportunity to improve their living,
 5 and not to look at their thing as a job but to
 6 look at it as a lifetime profession.

7 I was on the Lake Thunderbird Board for
 8 about 12 years, and we had a lot of turnover on
 9 people because they looked at it as a job and
 10 not as a profession. And I think this program,
 11 the apprenticeship program particularly, is a
 12 really positive step in leading both the workers
 13 and the community to view their people who run
 14 their system to treat them with proper respect.

15 CHAIRMAN DUZAN: I think we all agree
 16 with that. Any other questions or comments from
 17 the council?

18 MS. HATFIELD: If there are no other
 19 questions from the council, the public comment
 20 period will open now. There are currently no
 21 comments or questions from the public, but I
 22 will leave the comment period open for about two
 23 minutes to see if we receive any.

24 CHAIRMAN DUZAN: Okay.

25 MS. CHARD: This is Shellie Chard.

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1 While we're waiting on public comment, I just
2 want to commend the work of Brandon Bowman and
3 his staff, and J.R. Welch and the Rural Water
4 staff. This has been a great formalization of a
5 great partnership we've had between our agency
6 and Rural Water, and, of course, the Water
7 Resources Board and the office of Secretary of
8 Energy and Environment's office under Secretary
9 Ken Wagner.

10 This has been a great program, and
11 these guys are doing a great job working with
12 our systems. And it's nice to have some
13 non-regulatory responsibilities and be able to
14 really show how we're helping communities,
15 particularly when we start looking at decreasing
16 budgets for various reasons, including the
17 pandemic, and also as we see spots of drought
18 pop up on the drought monitor.

19 So this is a great program, and that's
20 part of why we wanted to share it with you a
21 little bit today. And in a future Environmental
22 Quality Board meeting, they will also be
23 presenting their findings.

24 MR. BOWMAN: Thank you, Shellie. Thank
25 you very much.

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1 operating in shifts so that if one person did
2 contract Covid-19, that it would not totally
3 disable the entire laboratory. So that's some
4 of the things that we've been doing to keep
5 ourselves up and running during this time.

6 Our program staff are getting back out
7 in the field. They had some time where we were
8 being very cautious and trying to wait and see
9 what was happening. We were still responding to
10 emergencies and complaints. When we had some
11 drinking water sample analysis show
12 contamination, those staff were working.

13 Sometimes we had to get creative. We
14 were not always able to immediately go and help
15 take samples or verify sampling procedures, but
16 the agency was able to be a little creative.

17 And we were doing some use of Facetime and
18 reviewing how somebody took a sample and being
19 able to show them proper technique.

20 So, you know, we've had some new
21 approaches to some things, and we've also been
22 using our drones to help us continue our social
23 distancing, but also be able to conduct
24 business.

25 For some of you, I know I've had some

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1 MS. HATFIELD: No comments or questions
2 have been received in the public comment
3 section, so we will go ahead and close the
4 public comment period now and move on.

5 CHAIRMAN DUZAN: Okay. Moving on to
6 the director's report. Shellie, that is you
7 again.

8 MS. CHARD: Yes, all right. Thank you
9 all very much. I appreciate you guys sticking
10 with us. I know it's been a bit of an adventure
11 trying to navigate this new normal.

12 One of the things that I wanted to just
13 touch on very briefly, if you haven't looked at
14 the DEQ website under our Covid pages, you might
15 look at that. And you can get a glimpse into
16 all of the activities that we have been
17 undertaking during this time, everything from
18 how we've been dealing with operator's
19 certification, training, renewal, compliance and
20 enforcement activity.

21 As you can see from my video, I am in
22 the office today. As an agency, we're somewhere
23 15 to 20 percent across the agency on any given
24 day in the office. The laboratory has been
25 running close to full capacity, but they're

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1 one-on-one conversations, but asking about what
2 kind of training or information is out there for
3 conferences that typically are held in person,
4 either around the state or across the country
5 related to drinking water or waste water. I
6 would encourage you to look at American Water
7 Works Association, The Water Environment
8 Federation and The WaterReuse Association, and
9 the Ground Water Protection Council website.

10 All of them have a lot of really good water
11 related technical training available, and in
12 many cases it's free or at a significantly
13 reduced cost. So those are some options where
14 you might get some of that training, if you're
15 looking either for a particular subject or
16 continuing education credit.

17 One thing that I haven't decided if I'm
18 excited or terrified, next Tuesday I will be
19 testifying virtually before the U.S. House
20 Committee on Energy and Commerce, on the
21 environment and climate change subcommittee.

22 They are holding a hearing regarding standard
23 setting processes under the Safe Drinking Water
24 Act, so that should be interesting.

25 I'm the state person. There's someone

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1 from NRDC and someone representing a large
 2 drinking water utilities. We'll all be
 3 participating in that. So I think it's, you
 4 know, interesting and fascinating. We'll see
 5 how it turns out.

6 I know what it looks like in person;
 7 I'm not sure how it looks remotely, but we're
 8 going to find out. But I am excited that
 9 Oklahoma is going to get to have a voice in some
 10 of the early discussions in Congress as they're
 11 looking at potential amendments to the Safe
 12 Drinking Water Act in the future.

13 One last area that we talked a lot
 14 about, oil and gas produced water over the last
 15 couple of years. DEQ is still working with the
 16 Environmental Protection Agency to see what
 17 delegation of that program would look like and
 18 how it will fit into other DEQ Clean Water Act
 19 programs.

20 How things usually go, the discussion
 21 is now between the DEQ general counsel and the
 22 EPA Region 6, regional council and headquarters
 23 of the general counsel, looking at a couple of
 24 legal issues that they have to get worked out
 25 before any of technical people can actually put

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1 So those are some of the big things
 2 that we're working on and that are happening at
 3 DEQ related to water quality. So I will stop
 4 there. I know we've been here going on an hour
 5 and a half, and take any questions that anybody
 6 might have.

7 CHAIRMAN DUZAN: Okay. Does anybody
 8 have any questions?

9 Okay. No question.

10 Thanks, Shellie.

11 And we'll move on to new business,
 12 which I don't believe we have any new business,
 13 so the next thing is the announcement. The next
 14 meeting is scheduled for September 29th at 2:00.
 15 The location and format to be determined.

16 It may be back to in-person or it may
 17 be another one of these. We will have to see at
 18 that time. And then if there's no other
 19 announcements or anything, we'll seek a motion
 20 for adjournment.

21 MR. NELSON: So moved. Jon Nelson.

22 MS. WYATT: Terry Wyatt, second.

23 CHAIRMAN DUZAN: Okay. We have a
 24 motion and a second. We'll do a roll vote.

25 MS. FIELDS: Mr. Carr?

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1 together documents that need to meet the agreed
 2 upon criteria.

3 So that's something that's still
 4 happening, as DEQ is continuing to participate
 5 in various produced water workshops and
 6 research, partnerships, one being the New Mexico
 7 produced water consortium. It involves several
 8 universities, environmental NGOs, the states of
 9 New Mexico, Texas and Oklahoma, and many oil and
 10 gas companies. So that's a good place we're
 11 seeing a lot of research, ideas being presented,
 12 and moving on to some of the funders in order to
 13 fund that research so that, hopefully, we can
 14 work to become more water resilient by replacing
 15 produced water, using that in lieu of fresh
 16 water or potable water.

17 People get real nervous when you start
 18 talking about reusing produced water from oil
 19 and gas that -- oh, we can't drink that because
 20 it's highly contaminated. And nobody's talking
 21 about drinking it, we're just talking about
 22 making smarter decisions about our water, what
 23 we can do to include produced water as part of
 24 our water resources and not simply inject it and
 25 take it out of the water cycles.

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1 MR. CARR: Yes.

2 MS. FIELDS: Ms. Mach?

3 MS. MACH: Yes.

4 MS. FIELDS: Mr. Matheson?

5 MR. MATHESON: Yes.

6 MS. FIELDS: Mr. Moore?

7 MR. MOORE: Yes.

8 MS. FIELDS: Mr. Nelson?

9 MR. NELSON: Yes.

10 MS. FIELDS: Mr. Smith?

11 MR. SMITH: Yes.

12 MS. FIELDS: Mr. Winegardner?

13 VICE CHAIRMAN WINEGARDNER: Yes.

14 MS. FIELDS: Ms. Wyatt?

15 MS. WYATT: Yes.

16 MS. FIELDS: Mr. Duzan?

17 CHAIRMAN DUZAN: Yes.

18 MS. FIELDS: Motion passed.

19 CHAIRMAN DUZAN: We are adjourned.

20 Thanks everybody.

21 (At which time, the Water Quality
 22 Advisory Board hearing concluded.)

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C E R T I F I C A T E

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STATE OF OKLAHOMA)

)

COUNTY OF TULSA)

I, Tammie Shipman, Certified Shorthand Reporter in and for the State of Oklahoma, do hereby certify that the foregoing proceedings are a true and correct transcript of the record of the machine shorthand notes taken by me and transcribed into written form under my supervision, direction and control.

I further certify that I'm neither related to nor attorney for any interested party in the named action, nor otherwise interested in the outcome of said action.

WITNESS MY HAND, this 28th day of July, 2020.

Tammie Shipman

Tammie Shipman

Shorthand Reporter

CSR #1564