

01 COMMONWEALTH OF PENNSYLVANIA  
02 SUSTAINABLE WATER INFRASTRUCTURE TASK FORCE  
03 \* \* \* \* \*  
04 IN RE: PUBLIC INPUT SESSION  
05 \* \* \* \* \*

06 PANEL: MARY JO WHITE, Chair/Senator  
07 SCOTT HUTCHINSON, Chair/Representative  
08 Craig Brooks, Member

09  
10 HEARING: Wednesday, May 21, 2008  
11 Commencing at 1:23 p.m.

12 LOCATION: Clarion University  
13 Venango Campus  
14 Rhoades Auditorium  
15 1801 West First Street  
16 Oil City, PA 16301

17  
18 WITNESSES: Raymond Meyers, Richard Castonguay,  
19 Penny McCoy, Terry Soster, Paul Marchetti,  
20 Jeff Allio

21  
22 Reporter: Wendy Blair

23  
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01 E X H I B I T S

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03



06 four remaining. One is Thursday, May 22nd in DuBois,  
07 May 27th in Pittston, May 28th in Bethlehem and May  
08 29th in Red Lion, and I'm sure you can find those  
09 scheduled hearings on the website, as mentioned, but  
10 that's for your information.

11 CHAIR HUTCHINSON:

12 Okay. We have three speakers, I believe,  
13 that are registered in advance, and we will start with  
14 them. The first will be Raymond Meyers. Is Mr.  
15 Meyers here? If you can come forward and make your  
16 presentation, please. Do you have copies of your ---  
17 we can take extra copies, I'm sure.

18 MR. MEYERS:

19 Yeah. I really wasn't sure ---.

20 CHAIR HUTCHINSON:

21 Okay.

22 MR. MEYERS:

23 Here's like 25 or 30 copies.

24 CHAIR HUTCHINSON:

25 Okay. We'll make sure that they get ---.

5

01 MR. MEYERS:

02 Well, thank you very much for allowing me  
03 to share with you this afternoon on this subject, also  
04 to offer some recommendations for your consideration.

05 CHAIR WHITE:

06 Excuse me. Can everyone hear the  
07 testimony?

08 MR. MEYERS:

09 Are you okay?

10 CHAIR WHITE:

11 Good. Thank you.

12 MR. MEYERS:

13 I've been a professional engineer  
14 providing municipal engineering services for about 30  
15 years, and this is in small, rural, central  
16 Pennsylvania communities. What you're going to hear  
17 today, I'm sure, is the importance of developing an  
18 infrastructure plan to go about meeting those needs,  
19 how to train people, where government needs to fit in.  
20 But, and I will explain this a little bit later, I  
21 think, in my opinion, there's a major need for a  
22 change in thinking if you're going to solve these  
23 infrastructure problems at the municipal level and at  
24 the public acceptance level.

25 I think only recently some of the public

6

01 is coming to grips with the serious nature of our  
02 infrastructure problem, and as an example, and what I  
03 would like to share with you deals with the Borough of  
04 Huntingdon. Huntingdon is in central Pennsylvania.  
05 At the end of last year, on their own, the borough  
06 council said, we need to develop a plan to deal with  
07 infrastructure in the next 20 years, and they said  
08 really, it'd be nice to have something that even  
09 speaks to people beyond that. I thought that was  
10 pretty insightful, and while their plan isn't

11 finished, in its preparation, they have allowed me to  
12 come here today and let me share some of the findings  
13 with you.

14           Huntingdon is a pretty old community.  
15 1767 is when the town was laid out. It's only a  
16 population of about 7,000. They have two state  
17 correctional institutions that, maybe with inmates and  
18 staff, maybe another 6,000. And Juniata College is a  
19 small liberal arts college in town. Like a lot of  
20 older communities, they have infrastructure that's  
21 more than 100 years old. They have brick sewers that  
22 were put in in 1880 and 1890 that are still in service  
23 today. In a lot of ways, it's so interesting to look  
24 at, but they're so old that the mortar is actually  
25 missing. It's dissolved over the years. The bricks

7

01 are all nicely locked into place, but you take two or  
02 three bricks out and you're history. It starts to  
03 collapse. But they have that kind of infrastructure.  
04 Also, a lot of sewers made out of baked, oven-fired  
05 clay. Very fragile material, state-of-the-art  
06 material 50 or 80 years ago, but no longer today.

07           Basically, Huntingdon is the type of  
08 community, like most that I'm familiar with, if it  
09 wasn't broke, they didn't fix it. And if you had a  
10 water main that broke, you fixed it, but on the other  
11 hand, they weren't out there actively doing a lot of  
12 preventive maintenance, because they focused their  
13 attention on a lot of other areas. One of the

14 challenges is going to be for the people to make a  
15 good inventory of their infrastructure, and when you  
16 do, you're going to be surprised at just how extensive  
17 these things are. As an example, Huntingdon, for a  
18 small community, add up all their water lines, it's 45  
19 miles in length. Now, I don't know what the nearest  
20 town is 45 miles away from here, but think about it.  
21 Forty-five (45) miles of sticks laid end to end,  
22 that's a lot. And dealing with it over the various  
23 ages, various sizes, various conditions is a real  
24 challenge.

25 Their first water treatment plant was put

8

01 in in 1925, and they're still using it today.  
02 Concrete today is not what it was in 1925, and they've  
03 got some real challenges with it. They also upgraded  
04 that plant in 1935 and in 1995. 1995 to me sounds  
05 just like yesterday, but it's already ten years old.  
06 You can't get replacement PLC information, and some of  
07 the technology, equipment has totally changed. Now  
08 when you order things, nothing is made in this country  
09 anymore. There's all these kind of challenges that  
10 you have to deal with. As far as the sewage treatment  
11 plant end of it goes, they put in a plant in '65 and  
12 they're still using it today. They upgraded it 20  
13 years later, but today they have to upgrade it with  
14 the Chesapeake Bay requirements.

15 So they have all that infrastructure, and

16 then, as a small community, they have about 30 miles  
17 of roads and streets that you can't ignore, and they  
18 have Muddy Run, which is a stream that someone  
19 channeled. Nobody will own up to it, but they  
20 channeled it through the town, say, 80 years ago, and  
21 it goes under buildings. It carries about a five-year  
22 storm, which is not very much, which means, in theory,  
23 anything over a five-year storm, it overflows and  
24 becomes pressurized. It's a real challenge.

25 The value of these public works for this

9

01 small community, if you put them into today's dollars,  
02 the sewage side of it is about \$23 million. If you  
03 had to replace everything with today's money, about  
04 \$23 million, the water about \$28 million, and all the  
05 streets and everything, about \$56 million. It's over  
06 \$100 million of infrastructure in this 7,000 community  
07 area.

08 What's different about that, you take  
09 that value and you divide it by the service  
10 population, you get an investment of about \$7,000 per  
11 person. I happen to have several old engineering  
12 textbooks from 1920, 1930, and they say \$100 a person,  
13 that'll cover all the infrastructure needs in your  
14 community, public water, sewage and streets. So 1920,  
15 maybe it was \$100 a person. Today, at least in  
16 Huntingdon, \$7,000 per person. That's quite a  
17 difference, I'm sure you'll agree.

18 Huntingdon sewer rates are \$290 per year.



19 Their water rate's \$240 a year. They have \$31,000 a  
20 year median household income, a little under two  
21 percent water and sewer combined, so that'd only be  
22 two percent of the income. And their tax is about 27  
23 mills. A typical household pays about \$2,000 a year  
24 in tax, so I don't think these numbers I'm telling you  
25 are a whole lot different than a lot of older

10

01 communities in our state.

02 What they have done is they've put a plan  
03 together for 20 years, and they've done it in five-  
04 year blocks, and they said we're going to have a block  
05 of work and have that done by 2013, our second block  
06 will be done by 2018 and so on. And for them, they've  
07 centered it around separating their combined sewer  
08 system. This is this 1880, 1890 vintage sewer system.  
09 And they've made estimates of what it's going to cost  
10 to do that, and they have inflated these at five  
11 percent interest, which I hope is enough, but they've  
12 inflated them at five percent over the next 20 years.

13 And so altogether, they're expecting  
14 about \$100 million worth of some kind of repairs or  
15 replacements that have to be done, again, for this  
16 community of 7,000, and they've asked us, what do they  
17 have to do to their rates in order to accomplish that?  
18 Well, for millage, they're 27 mills. If they would  
19 fund this entirely on their own, it would have to go  
20 up 39 mills, 39 mills more, and their sewer rates

21 would have to go up another \$600 a year in addition to  
22 what they're already paying, and their water rates  
23 another \$315 a year beyond what they're already  
24 paying. So maybe it's not \$100 a month. I'm not  
25 sure. I didn't do the math for each one of these, but

11

01 it's pretty salty, and again, for a community this  
02 size, it's a real challenge for them.

03 Altogether they would have to come up  
04 with about \$4,000 a year for water, sewage and millage  
05 even if the courts would allow them to do it, but  
06 about \$4,000 a year per household in order to be self-  
07 supporting and self-sustaining. And I don't think  
08 these numbers are going to be so different than you're  
09 going to find in many other communities, especially  
10 older communities who did the best with what they had,  
11 but now, looking back, they wish they had been more  
12 proactive. They're doing it now, so maybe they're  
13 ahead of the game in that respect. At any rate, these  
14 numbers are in the presentation and hopefully they'll  
15 be of assistance to you.

16 A couple things that I would recommend.  
17 It's been mentioned here EPA has developed the four  
18 pillars of sustainability. There's been extensive  
19 work done by the American Public Works Association,  
20 American Water Works Association and Water Environment  
21 Federation. Please do not ignore these references.  
22 They've already spent a considerable amount of time  
23 and effort, and you should take advantage of those,

24 tweak those so that you can make things right in  
25 Pennsylvania.

12

01           Something else that we all need to  
02 remember, especially if work is done digging up old  
03 infrastructure to do some kind of a repair, there's  
04 all kinds of issues that we face today that did not  
05 exist even 20 or 30 years ago. Almost every project  
06 these days, sometime, somewhere, you find some source  
07 of contaminated soil, groundwater that you have to  
08 deal with. These are sometimes unexpected, but the  
09 reality, they add to the cost. Historic structures,  
10 old trenches from previous construction that could  
11 cave in. All of these things are new in the  
12 construction field compared to 100 years ago or 50  
13 years ago, and you can't do things today for what you  
14 did 20 years ago. You just can't simply do it.

15           And with respect to costs, I provided  
16 some information here. Some of you may know the  
17 Engineering News-Record puts out the cost of  
18 construction estimates. 1913, they had an index  
19 published, and it had a base rate of \$100, so  
20 construction in 1913 had a base rate of \$100. Today  
21 it's \$8,000. So in theory, it costs 80 times more to  
22 do something today than it did in 1913. And in case  
23 you don't know it, inflation at five to seven percent  
24 means things double every 10 to 15 years, and I don't  
25 know if five or seven percent is enough today with the

01 cost of copper, concrete, steel. Things doubling  
02 every five to ten years, I wouldn't be surprised to  
03 see that happen. So please, when estimates are made,  
04 if you're going to project something and let's do  
05 something in 20 years, keep inflation included in that  
06 so it can be planned for.

07           Something else, many people will say how  
08 important it is to conserve water, and it is very  
09 important, but I think some folks erroneously think  
10 every gallon of water that you conserve, it  
11 automatically transfers into additional dollars of  
12 money saved, and that is not a proportional  
13 relationship. There is a lot of costs of running a  
14 water system that are fixed. They don't go up and  
15 down. You can't buy the insurance on the treatment  
16 plant, and that premium doesn't go down if you make a  
17 little bit less water next year. Wages, salaries,  
18 debt service, it doesn't change. So most of the  
19 costs, many of the costs, are fixed. So conserving  
20 water doesn't instantly mean you save a proportional  
21 amount of money.

22           Also, if I may, we often talk about costs  
23 in light of the median household income, and again, be  
24 mindful, if the median is in the middle, that means  
25 half of all the incomes are less than that number,

01 just like half are greater. And if you look at the  
02 proportion in Pennsylvania in a lot of these aging

03 communities, it's kind of weighted closer to the end  
04 of that lower half, so I really think and I would  
05 recommend an altogether different way of looking at  
06 what's affordable. This idea of basing it on a  
07 percent of median household income, probably we can do  
08 better, and I think we want to try that.

09           And lastly, I really would urge you to  
10 come up with a way to provide education long term to  
11 all parties. I believe municipal officials need it,  
12 the public needs it, I think engineers need it to be  
13 able to start to look at things in terms of economics  
14 and the total cost of providing the cost of the  
15 infrastructure. I even quoted a textbook from 1930  
16 that says, graduating engineers, their biggest  
17 weakness is they don't understand economics, and I can  
18 guarantee you that is true today. There are some  
19 engineers in this group. They'll be honest. They'll  
20 tell you none of us understood economics the way we  
21 should have when we graduated from school. And I  
22 think it's true of new engineers that are graduating  
23 as well. So basically, that's what I wanted to share.  
24 I hope it's helpful, it gives you some ideas and  
25 things to think about.

15

01           MR. BROOKS:

02           Thank you. I'll just make two brief  
03 comments. I think you're right on the mark when you  
04 talk about education and the fact that we need to

05 educate the public as well as those in the field about  
06 what we're facing. The other thing that really struck  
07 me about your testimony that --- about the \$4,000  
08 figure or thereabout, I just --- you can do a lot of  
09 online sewage for \$4,000 a year. And that's why I  
10 think we have to think in a different way. And  
11 obviously, there's other technical reasons why you  
12 can't do that when people live closer together, but  
13 that's a lot of money. So that's my only comment I  
14 have.

15 MR. MEYERS:

16 Yeah. Well, that's an example for a  
17 community that has existing infrastructure that just  
18 can't walk away from it.

19 MR. BROOKS:

20 Yes.

21 MR. MEYERS:

22 That you have to figure out how, can they  
23 continue to use it for 10 to 20, 50 more years?  
24 That's the kind of investment, in their case, that's  
25 going to be necessary to do to continue to use it.

16

01 CHAIR WHITE:

02 I think a corollary then is that as we  
03 build new systems in rural or sparsely populated  
04 areas, all of this needs to be built in, projected  
05 costs over time of these projects, in deciding whether  
06 they make sense or not.

07 MR. MEYERS:

08                   And definitely the materials that are  
09                   available to build things today are superior to what  
10                   they were 100 years ago. It's just that there's a  
11                   huge amount of 100-year-old infrastructure that ---  
12                   again, if you look at old engineering textbooks, they  
13                   never expected this to last this long and have this  
14                   kind of service life. And it's wearing out, and it's  
15                   not going to last another 100 years.

16                   CHAIR WHITE:

17                   On page five of your testimony, where you  
18                   give the amounts necessary per year to sustain a goal,  
19                   your footnote says the sewer rate included the  
20                   Chesapeake Bay cost. Have you been able to isolate  
21                   those at all? Do you know what portion of the money  
22                   is directly related to the Chesapeake Bay  
23                   requirements?

24                   MR. MEYERS:

25                   In this particular community, about \$10 a

17

01                   month, about \$120 a year is Chesapeake Bay only and  
02                   not a penny for anything else.

03                   CHAIR WHITE:

04                   Okay.

05                   MR. MEYERS:

06                   There are a lot of other issues that they  
07                   need to deal with, but Chesapeake Bay, only about \$120  
08                   a year per customer.

09                   CHAIR WHITE:

10                   And did I understand you said that is or  
11 is not typical of what other communities can expect?

12                   MR. MEYERS:

13                   I think that's probably typical. \$5 for  
14 a pound of nitrogen removed, I think, we're going to  
15 find something ---. What's happening, a lot of  
16 people, they may be mentioning numbers, \$20, \$40, \$50  
17 a month, but that may include other necessary  
18 improvements that, if you're going to put this  
19 investment and have a contract, maybe you want to take  
20 care of something that's been a problem for the last  
21 ten years, it makes absolute sense to deal with it as  
22 much as you can.

23                   CHAIR WHITE:

24                   When you stated about conserving water, I  
25 mean, I understand it's not like conserving

18

01 electricity. It is somewhat different. Fixed costs  
02 are indeed very high. But there's a lot of emphasis  
03 on infiltration and overburdening our systems, so  
04 you're not including that as conservation? That's a  
05 separate issue?

06                   MR. MEYERS:

07                   Well, I'm talking about conserving water,  
08 drinking water.

09                   CHAIR WHITE:

10                   Yes. Not sewer water?

11                   MR. MEYERS:

12                   Not sewer. No.



13 CHAIR WHITE:

14 Okay.

15 MR. MEYERS:

16 Getting groundwater out of the public  
17 sewer is a good thing. Absolutely. It makes a lot of  
18 sense. Very difficult. Our country has spent  
19 billions trying to be successful at it, and we're only  
20 partway there.

21 CHAIR HUTCHINSON:

22 Thank you.

23 MR. MEYERS:

24 Okay. Thank you.

25 CHAIR WHITE:

19

01 Thank you very much.

02 MR. MEYERS:

03 You're welcome.

04 CHAIR HUTCHINSON:

05 Okay. Our next registered testifier  
06 would be Dick Castonguay, a friend from the area who  
07 we're glad to have back today.

08 MR. CASTONGUAY:

09 Good afternoon. I too would like to  
10 thank you for this opportunity. I was fortunate to  
11 see that this was going on, and it's going to happen  
12 in my community tomorrow, but I'm tied up tomorrow, so  
13 I've traveled back to Venango County to see some  
14 friendly faces. And the last speaker sort of gave me

15 some ideas as to some of the things that I guess I  
16 just need to make you aware of.

17 Sandy Township, if you're not familiar,  
18 it's a township of the second class that completely  
19 surrounds the city of DuBois, or DuBois (changes  
20 pronunciation), as some of you may term. We're in a  
21 northcentral DEP area, population of about 12,000, but  
22 keeping in mind about 4,500 to 5,000 of those are  
23 located in Treasure Lake, a gated community that has  
24 their own water and sewer system, and that gated  
25 community skews our median income. Our median income

20

01 is probably approaching \$50,000, but if you drop out  
02 the gated communities, income is significantly  
03 different.

04 We do not operate a sewage treatment  
05 plant. We operate a sewage collection system, water  
06 distribution system. We have approximately 60 miles  
07 of roads, 35 employees. Within the past four years,  
08 we've replaced all of the sewer collection system,  
09 about 80,000 lineal feet, not only the lines, but all  
10 the manholes as part of the process. There were some  
11 that we slimlined to reduce the I&I challenge that we  
12 had, and so our monthly debts are --- and these are  
13 --- this is with PENNVEST, is approximately \$30,000 a  
14 month is our debt service, and that's on about 1,100  
15 customers.

16 So our sewer rates and water rates, I  
17 would love to be able to have the kind of rates that I

18 just heard. Probably our average customer is between  
19 \$200 to \$300 a quarter for an average household. We  
20 have people that pay \$500 and \$600 a quarter for  
21 families, depending upon what is going on. Part of  
22 that is precipitated by the fact that all of our  
23 sewage goes to the City of DuBois, and they, in 2002,  
24 broke the management agreement that we had with them  
25 and hit us with a rate increase of about \$4 per

21

01 thousand. So our customers currently are paying  
02 \$11.90 a thousand for sewage. There is also a \$36.75  
03 per quarter maintenance fee that goes on top of that.  
04 You can see how rapidly we could build up a pretty  
05 significant sewer rate.

06           Some of the things I wanted to talk about  
07 --- and also, I guess, it would only be fair to  
08 mention that we have been in prolonged litigation over  
09 this issue with the City of DuBois. We've spent  
10 probably collectively, between the two communities,  
11 between \$1.5 million to \$2 million in legal fees over  
12 this. We are currently in Commonwealth Court. We've  
13 done our presentations and we are waiting for  
14 Commonwealth Court to render a decision on this  
15 matter. And I'm sure that's depending on how it comes  
16 out, it will move on to the next level in the Supreme  
17 Court, because both communities are pretty entrenched.

18           But where I see a challenge, and I try to  
19 address this in the first item, the regional

20 governance for regional assets. And a little bit of  
21 background there, I believe a DEP person mentioned the  
22 no longer --- the regional treatment plants. I was  
23 chairman of the co-op study back in the 1970s when we  
24 came up with all that. I was opposed to it then and I  
25 guess I'm still opposed to it. I didn't feel it would

22

01 work because of the long-term impact, and I think  
02 that's been validated.

03           But currently throughout the  
04 Commonwealth, there are numerous water and sewer  
05 systems that serve multiple municipalities but are  
06 owned and managed by either a single municipality or  
07 single authority. In some instances the PUC has rate  
08 setting authority, but in many others there is no  
09 oversight of the rate setting or management functions  
10 of those systems. In effect, the system monitor has  
11 been granted monopolistic powers over the regional  
12 asset, and in some instances, has used that power to  
13 thwart growth and development or to enact blaringly  
14 inequitable user fees, and we have no say in that;  
15 okay? We have to pay it or sue. I think that is  
16 ridiculous, particularly if those fees are not being  
17 used specifically for the maintenance and care of that  
18 infrastructure. If it's being used as a hidden tax  
19 for maintaining general government, then I have a real  
20 serious problem with that.

21           In that the Commonwealth has promoted  
22 regional solutions for water and sewer service areas

23 for decades, and that many funding streams that were  
24 provided to those utility systems for capital  
25 construction or expansion used regional population

23

01 bases, not just the base in the community that owned  
02 the system, but a regional base, then regional  
03 governance should have been mandated as part of the  
04 condition of that funding.

05 First off, if regional governance is not  
06 acceptable, then the Legislature must expand the scope  
07 of the coverage for the PUC to oversee these regional  
08 assets. And I believe that the PUC's testimony that  
09 has been submitted to this committee, that is one of  
10 the recommendations that they have in their  
11 presentation. That was available online. I read  
12 their presentation and I think there's some excellent  
13 points in the PUC's presentation.

14 Failing to implement either of the above  
15 recommendations, then our only hope is for you to  
16 remove the DEP bureaucratic requirement forcing  
17 entities to use existing regional sewage treatment  
18 plants and issue us a permit, okay, so that we can  
19 construct our own STP as well as the funding  
20 opportunities that were provided --- or originally  
21 granted to those communities that currently have them.  
22 I know that's probably ludicrous and ridiculous, but I  
23 think it's ludicrous and ridiculous to not have  
24 regional governance on a regional asset. And having

25 the things that are --- there are lawsuits all over

24

01 this Commonwealth between various entities of  
02 government over water and sewer and the management of  
03 fees. It's ridiculous; okay?

04 Second issue that I'd like to address is  
05 the prohibition of DEP regulations for the use of mine  
06 water as a public water supply source. Sandy  
07 Township, Clearfield County is honeycombed with  
08 hundreds and hundreds and hundreds of acres of  
09 underground mines that are full of water, that have  
10 become part of the underground movement of groundwater  
11 in our area. It's alkaline. It comes to the surface.  
12 In multiple places we've measured --- the average  
13 daily flows are greater than 1,200 gallons per minute  
14 at some of these. The iron and manganese are  
15 manageable. As a matter of fact, we used one of these  
16 to supply a delayed harvest coldwater fishery. The  
17 stream is red, but it's an alkaline water. The iron  
18 drops out within a very short period of leaving ---  
19 becoming oxygenated or mixing with air.

20 We would like to use this water as a  
21 groundwater source for a municipal water supply.  
22 There's federal abandoned mine discharge money that's  
23 going to be available. We'd like to take a look at  
24 that but were repeatedly told that there is a  
25 bureaucratic DEP regulation that prevents us from

25

01 using that as a source for water.

02                   Okay. We have millions and millions of  
03 gallons of this. Think of what we would do by doing  
04 this. It would provide two benefits, really. We  
05 would treat the entire flow coming out of that to  
06 reduce the iron, to improve the quality of the stream.  
07 Then we would do a secondary treatment on that for  
08 municipal water, okay, to make it so that we met that  
09 requirement of the Safe Drinking Water Act.

10                   The other thing it would do for our area  
11 is even though we are on this side of the continental  
12 divide, our water comes from the other side, from the  
13 Susquehanna River Basin area. So we have to go  
14 through a very laborious, very long allocation permit.  
15 I think it took five years to get our allocation  
16 permit from the Susquehanna River Basin Commission.  
17 The best thing that we can do is not get our water  
18 from the Susquehanna River Basin, and get it from the  
19 Ohio River Basin. So by being able to develop sources  
20 on our side of the continental divide, I think, would  
21 greatly enhance that.

22                   The third issue that I want to bring up  
23 is something that we just became aware of recently,  
24 and it concerns the DEP Bureau of Waterways  
25 Engineering notification to dam owners related to the

01 need to upgrade spillway capacity to handle a 36-inch  
02 rainfall in 24 hours; okay? Many of the dams are used  
03 for water supply impoundments, and less than 20 years

04 ago they were required to improve these same things.  
05 Now they're receiving letters.

06           And an interesting point about that, when  
07 I called Harrisburg and talked to some people in dams  
08 and encroachments --- because Sandy Township was  
09 blessed with a number of dams. Treasure Lake has five  
10 alone. We have Sebula (phonetic), okay, just to name  
11 some of the ones that we have. And I said I  
12 understand that a letter has already gone out to  
13 Sebula Dam, the owners and the engineer. Can the  
14 Township receive a copy of that? No, we don't feel  
15 it's necessary to provide a copy to the municipality  
16 in which that dam is located. We are responsible if  
17 something happens. We have to do the mitigation, the  
18 emergency management of it, but they won't give us a  
19 copy of the letter that they sent to the dam owner.

20           I asked also for the dams of Treasure  
21 Lake. Those letters are sitting on a desk in  
22 Harrisburg. They haven't been issued yet. I asked if  
23 those letters would please be --- a copy of those  
24 would please be sent to the township. I think it's  
25 just unconscionable that we can't even get a copy of

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01 the notification letters on their ideas on this dam.

02           But 36 inches of rainfall in 24 hours,  
03 okay, you know, how often can any area in Pennsylvania  
04 anticipate a rainfall event equaling 36 inches in 24  
05 hours? And even if it did happen, okay, we would have  
06 flooding that would be apocalyptic. Come on. Thirty-



07 six (36) inches. If you go to the Penn State  
08 climatology website, it gives you extreme rainfall  
09 events for the Commonwealth of Pennsylvania; okay?  
10 There's nothing probably greater --- over seven inches  
11 in 24 hours. But yet our communities are being made  
12 to design spillways and dams for a 36-inch 24-hour  
13 event. City of DuBois has received one of those  
14 letters. Lowest estimate, \$2.6 million just for the  
15 spillway improvements; okay? We're talking about  
16 sustainable infrastructure. We can't afford that.

17 In closing, I would like to thank you for  
18 allowing me the opportunity. Remember that small  
19 communities have limited fiscal capabilities. And I  
20 would be glad to try and answer any questions that you  
21 might have. And it's great to be back in Venango  
22 County.

23 CHAIR WHITE:

24 You know, you make an excellent point  
25 that I don't think we focus on often enough, and that

28

01 is the relationship between water and sewer systems  
02 and basically land use planning. I have many  
03 municipalities, particularly Butler County, which is a  
04 growing county, who are insisting on building their  
05 own plant because they want to control their destiny.  
06 They want to control where and how development takes  
07 place. Once you get into a regional system, you're  
08 absolutely correct. The owner of the system basically

09 calls the shots as to how and when the growth of the  
10 system occurs, and this becomes a very, very difficult  
11 political issue. So I think rather than have everyone  
12 build their own systems, we do need some type of  
13 governance, and the PUC might be the logical authority  
14 to do that.

15 MR. CASTONGUAY:

16 We have PUC senator oversight on the  
17 water rates for the City of DuBois. We don't on the  
18 sewer. I'd love to have it on the sewer; okay? That  
19 would be acceptable, but I think long term. Long  
20 term, we have to try to secure regional governance.  
21 Because of the land use issues, all of the other  
22 issues that are intertwined, we are doing a regional  
23 comprehensive plan together and some other things, but  
24 we definitely have some challenges on our ideas about  
25 water and sewer service and the rates for the same.

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01 CHAIR HUTCHINSON:

02 You make three excellent points, and I  
03 appreciate it. I thought the abandoned mine, though,  
04 water was very unique, something that I never really  
05 thought about.

06 MR. CASTONGUAY:

07 I believe there's a regulation that says  
08 you have to use best available source, but they don't  
09 consider that as one of the allowable for us even to  
10 explore, even though in Jefferson County, which is  
11 part of this region, okay, I believe they have a

12 discharge of alkaline water over 2,400 gallons per  
13 minute they are looking at doing something with. We  
14 have two locations that combined are 2,400 gallons a  
15 minute that we could put to much better use by  
16 cleaning it up and using part of it for a municipal  
17 source.

18 CHAIR HUTCHINSON:

19 Thank you. Thank you for your testimony.  
20 Our next registered speaker, Penny McCoy, assistant  
21 executive director of PA Rural Water Association.

22 MS. MCCOY:

23 Okay. I'm not going to stand behind the  
24 podium.

25 CHAIR HUTCHINSON:

30

01 As long as people can hear you and she  
02 can see you, we'll be fine.

03 MS. MCCOY:

04 Good afternoon, and thank you for giving  
05 me this opportunity to speak. I am a Mercer County  
06 resident, and my job takes me throughout the whole  
07 state. I have the responsibility of most of the water  
08 and wastewater systems in the state. And although I  
09 agree with probably every person who's going to  
10 testify before you, money is a key issue, I do not  
11 feel it is the main issue. Affordability is not a one  
12 size fits all. The two percent does not fit all small  
13 and rural communities.

14 I see money as just one of the factors.  
15 According to the engineering sector of our industry,  
16 research has shown that public officials and other  
17 relevant government agencies believe the greatest  
18 block to action on infrastructure issues is the out of  
19 sight, out of mind nature of system management. For  
20 far too long and way too many systems, a chronic  
21 problem of crisis management has prevented adequate  
22 system maintenance to be performed. The primary  
23 reason given is always lack of funds, and this is  
24 true. However, lack of funds is a direct result of  
25 insufficient rate structures. I can tell you that

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01 Western Pennsylvania has higher rates than Eastern  
02 Pennsylvania. It's always amazing to me when I talk  
03 to people about their rates.

04 The reason we have inadequate rates is  
05 because systems refuse to include fixed costs,  
06 appreciation and capital improvement costs. They  
07 prefer to keep the rates lower to appease the  
08 ratepayers and to make the governing body look good.  
09 These practices have caused systems to develop crisis  
10 maintenance practices which in the long run have and  
11 will continue to place an enormous financial burden on  
12 the very ratepayers they thought they were protecting.

13 We as an industry have to move beyond the  
14 crisis management mentality and develop the  
15 appropriate management step strategies to repair,  
16 replace and maintain our community assets. Proper

17 management strategies will not be developed until we  
18 have the means to make sure that the elected and  
19 voluntary governing bodies serving our industry have  
20 been properly trained and qualified to make the  
21 decisions needed for the future. The 1996 Safe  
22 Drinking Water Act emphasizes the development of  
23 capacity or liability of water utility systems. To  
24 comply with the capacity or development requirements,  
25 Pennsylvania must ensure that all community water and

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01 wastewater systems demonstrate technical, managerial  
02 and financial capacity for compliance. The Water and  
03 Wastewater Operator Certification Act, Act 11 of 2002,  
04 helped ensure the technical capacity of the industry  
05 by making the systems have properly trained and  
06 qualified operators. However, the Act did not address  
07 the training and qualifying of the system management.  
08 It also did not address the financial skills of that  
09 management.

10 As amazing as it may sound, the smaller  
11 community systems today have developed the most  
12 effective technical capacity. These systems have  
13 operators that are trained in all aspects of the  
14 treatment, distribution and collection of the  
15 community's product. The large and regionalized  
16 systems' technical capacity has taken the form of each  
17 operator being trained only in a specialized field.  
18 There is no cross training in the regionalized and the

19 larger systems. But the regionalized and larger  
20 systems have better managerial and financial  
21 capabilities. That's because they have good  
22 management practices.

23 Another factor that you probably haven't  
24 heard about so far when we talk about the  
25 infrastructure problem is the aging workforce. Once

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01 we have found ways to repair and replace the  
02 components of our systems, they will need to continue  
03 to be maintained. My figures now are 47 to 82 is the  
04 average age of the water and wastewater operators in  
05 this state. One of my primary jobs is operator  
06 certification. In the last four years, I have trained  
07 11 people that are under the age of 35, so that's a  
08 huge problem that we need to face, and we need to face  
09 it right away, because in the next ten years we're  
10 going to lose a lot of that workforce.

11 So yes, I agree, it all comes down to  
12 money, but the root of the problems are lack of  
13 customer education that encourages the maintenance of  
14 these systems, adequate rates that can and must pay  
15 for the improvements, and insufficient management  
16 training. So I thank you for your time and I'll be  
17 happy to answer any questions.

18 CHAIR WHITE:

19 Thank you. Where's the 82-year-old  
20 operator?

21 MS. MCCOY:

22 I'll just tell you, the most famous one  
23 is in Butler County. His name is Ted Seamens  
24 (phonetic). You probably do know him.

25 CHAIR WHITE:

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01 One of the things that we have, one of  
02 the challenges is that to the extent that these are  
03 being offered through community colleges, we have very  
04 few community colleges. I mean, the six counties that  
05 I represent, there's only one county that has a  
06 community college. This facility where we're sitting  
07 right now, the Venango Campus of Clarion University,  
08 has picked up the slack on a number of those types of  
09 programs, including right across the street where they  
10 have their school to train line people for the  
11 utilities, which again, their ages were in the high  
12 50s, and so there are challenges there in getting that  
13 education provided to people close to home. It's not  
14 always that people can afford to travel great  
15 distances to obtain the training they need. So I  
16 appreciate that comment. That's a very good point.

17 CHAIR HUTCHINSON:

18 Thank you for your testimony. I think  
19 you had some good ideas there. And certainly the  
20 aging workforce is something that has to be addressed.  
21 And we appreciate your works already in that area.

22 MS. MCCOY:

23 All right. Thank you.

24 CHAIR HUTCHINSON:

25 Okay. Next up, I would like to call

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01 Terry Soster from KLH Engineers.

02 MR. SOSTER:

03 Thank you.

04 CHAIR HUTCHINSON:

05 I'm going to throw a little comment.

06 Terry has said he's been through our community many  
07 times, but he's been a pass-through, but today we're  
08 glad to snatch him for a few minutes and draw upon his  
09 expertise.

10 MR. SOSTER:

11 That's correct. For 15 years I drive  
12 across your bridge every weekend and turn left. Today  
13 was the first day I turned right, and I was surprised  
14 what I found out there. But thank you. I'd like to  
15 make my presentation. It's going to be based on a  
16 list of questions that I was provided. I'm assuming  
17 that that list of questions is known to you.

18 CHAIR HUTCHINSON:

19 Yes.

20 MR. SOSTER:

21 Therefore, I'd like to go in that order.  
22 The first I'd like to talk about is the innovation  
23 that's available in the local water and wastewater  
24 industry. It is my opinion that there's a tremendous  
25 amount of innovation in terms of technology and

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01 equipment that's available to be used in the industry,  
02 whether that innovation may be geared to economics,  
03 it's probably more geared to producing water quality  
04 or treating water better. But I've provided you a  
05 handout that you can have for the records where EPA  
06 has been publishing papers on emerging technologies.  
07 I've provided you a list in there that's extensive.  
08 There are hundreds of technologies that are available.

09           One thing, though, that I'd like to talk  
10 about that may shock some people, that if you're  
11 talking about sustainability, I'd like to talk about  
12 practicality. I believe today that owning a combined  
13 sewer system has a lot of benefits. I think many  
14 people think that it's ancient technology when you  
15 combined water --- stormwater with wastewater. I  
16 think there's some benefit to owning a combined system  
17 today.

18           We've heard of the problems in  
19 infrastructure with infiltration and inflow. It's a  
20 significant problem. I've come to the conclusion it's  
21 a problem that's not fixable, that as you remove  
22 infiltration, water that previously couldn't enter  
23 enters. I believe the bulk of the problem on  
24 infiltration doesn't rest in the sewer system. I  
25 don't believe it rests with the line to the house. I

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01 think it rests in what lies under your house. And if  
02 you have the political fortitude to go tell private

03 homeowners to rip out their plumbings and redo their  
04 plumbing whether nothing exists under the floor, you  
05 might fix the problem. I think we'll create other  
06 problems, though. I think we'll create problems with  
07 wet weather events in basements, with flooding  
08 neighbors, flooding streets.

09 Our firm has permitted three facilities  
10 in the State of Pennsylvania that the concept is to  
11 take all the water we can to a treatment facility that  
12 can be conveyed there economically, which relates to  
13 regionalization, by the way, which I'll come back to.  
14 I happen to not be a big proponent of regionalization.  
15 These plans work very well. We leave the water in the  
16 system.

17 If you look at what's happening from a  
18 regulatory water quality basis, environment, we treat  
19 wastewater. There now is a trend for quantifying  
20 stormwater. We are now tracking stormwater. We are  
21 now sampling stormwater. And we're looking at basins  
22 as to the water quality of the basin. We've done work  
23 where we've found leaving the water in the sewer and  
24 getting it to the plant, not overflowing on the  
25 street, but getting it there, economically, and

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01 treating it makes a lot of sense.

02 There's one big issue, though, and I  
03 might add that what I'm stating today, I have not  
04 looked at the legality. I don't know what the  
05 relationship is with DEP and EPA on policy or law, but

06 this is something that's been a debate for ten years.  
07 And I've placed a copy from a report of a letter I  
08 wrote, I think in 1997, to the DEP in Pittsburgh, of a  
09 concept called blending. Now, blending is allowed on  
10 combined sources. It is not allowed on separate  
11 sanitary sources. What is blending? We've designed,  
12 engineered --- this is not discretionary. We  
13 engineered these systems in Greenville, PA, Washington  
14 City, PA, where we left the water in systems, conveyed  
15 it to the plant.

16           If you go by the DEP's design manual,  
17 which governs how we design, we would have to design  
18 these huge treatment plants for flows that occur two  
19 percent or less of the time. The other 98 percent of  
20 the time, the operators would be left with huge  
21 treatment plants that will not operate. It would be  
22 like driving a Ferrari or an Indy car to Oil City to  
23 go to work every day.

24           So how do we correct that? We monitor  
25 the process. At certain flow rates, we take the flow

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01 outside of the rest of the plant, bring it back in at  
02 the end of the plant, disinfect it and discharge it,  
03 therefore allowing the biological portion of the plant  
04 that does a lot of the work to be a lot smaller.

05           You may not understand the program, but  
06 water quality is regulated by what's called a Part One  
07 Permit that's issued by the DEP. When we build a

08 plant, we apply for the right to discharge to a  
09 stream. We are issued what's called a National  
10 Pollution Discharge Elimination Systems Permit. It  
11 defines water quality, defines concentrations. In my  
12 opinion, it's the best permitting system I've ever  
13 seen developed. It's stringent, it protects the  
14 environment, there's no loopholes, and it's self  
15 regulating where you monitor yourself. And if you  
16 fail to comply, you have to address the issues in a  
17 timely way. And if you lie in complying, you go to  
18 jail. It's a tremendous program. It's a program  
19 where the water quality is defined not by engineers,  
20 but by scientists, by environmentalists, chemists,  
21 microbiologists. Biologists set the limits that we  
22 have to meet to protect the stream, whether it's Oil  
23 Creek or the Allegheny River.

24 A generalized requirement that all the  
25 flow has to be treated through every unit, I believe,

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01 is impractical. What is governing --- if we can meet  
02 that permit, what do you care what we do to treat it?  
03 If I meet that permit, what do you care on how I treat  
04 it? We've designed these plants in Greenville,  
05 Washington. They work. What have they done by us  
06 doing this? We've taken in a lot more water than  
07 we've ever taken in, water that might have been  
08 spilling out of the sewer somewhere. We take in  
09 stormwater and we treat it. We haven't spent a lot of  
10 money in doing it. We've spent money, but not the

11 money that would have been required to treat all of it  
12 and create this unworkable system. And in the end,  
13 what do we have? We have a water that meets the  
14 permit, goes out into the stream.

15 I will tell you today that that is a very  
16 controversial concept. If you could enact that, and  
17 again, I don't know the legality that exists between  
18 the Department, EPA or who sets that, places like  
19 Alcasan (phonetic) and Pittsburgh, almost every  
20 community would have tremendous cost savings.

21 I can tell you this. We talk about  
22 economics. What is going to happen, in my opinion,  
23 energy in this country is going to change socially the  
24 whole fabric of this country. It's going to change  
25 how you drive your car, where you live, how big of a

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01 house you live in, and if you look at these treatment  
02 plants and the energy that's used there, they're  
03 phenomenal. User rates will skyrocket with some of  
04 the issues. And some of the people here today have  
05 mentioned that there is a significant difference  
06 between being allowed to do this, I'm going to call it  
07 blending, versus non-blending. I don't know how you  
08 get this approved. As I said, we have them working in  
09 Greenville, Washington City, where, I think in the  
10 eyes of many regulators it's illegal, but I am waiting  
11 for the day for someone to go into those towns where  
12 we hold the permits and tell them they're going to

13 have to spend \$5 million or \$10 million because we  
14 don't fit the mold, which goes back to another one of  
15 my recommendations to you.

16 We design treatment plants on a basis of  
17 a manual. I've put the front cover in my handouts  
18 here. It's called the DEP Domestic Wastewater  
19 Facilities Manual. In that manual, it tells us how  
20 big we make tanks, how long water has to reside in  
21 tanks, how much water can go over a certain device. I  
22 tell you today, if you want a specific recommendation,  
23 that consideration be given to eliminating that  
24 manual. Many of the technologies --- in fact, I  
25 didn't inventory it, but I listed 100 new

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01 technologies. My guess is not one of them are in that  
02 manual. It used to be that mechanics ran treatment  
03 plants. Today, some very sophisticated people run  
04 treatment plants.

05 But I believe something to be considered  
06 is eliminate what's called a Part Two Permit process.  
07 I told you the Part One process is filing to get the  
08 water quality requirements of what you have to treat  
09 to. The Part Two process is filing your plans and  
10 specifications with the local departments, regional,  
11 having them review them and approve them so we can get  
12 a construction permit. What's the purpose of that  
13 program? My engineering seal's on that drawing. I  
14 assume, I've never read the legislation, there's  
15 something in legislation that if I don't do my job

16 right, I've got a problem. I carry errors and  
17 omissions insurance if something happened that's my  
18 fault.

19 DEP, as Dana said, is struggling with  
20 work management issues in terms of personnel. I will  
21 tell you right now, it will not fix that problem. We  
22 are struggling to get people into our corporations,  
23 whether they can draw on a drafting board or an  
24 engineer. We are struggling. There's tremendous  
25 competition for talent that isn't there and I don't

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01 think is coming. Again, I have not researched that,  
02 but that is just my opinion. There is disinterest, I  
03 believe, on the part of young people in this country  
04 in engineering and mathematics and operations, and I  
05 believe the void was being filled by foreign people  
06 coming in. Those people are staying home because  
07 their economies are now developed.

08 We could relieve DEP of a tremendous  
09 workload by we don't file our plans. Now, we would  
10 file and have some system that you know we're building  
11 something, but give me the NPDES permit water quality  
12 promise. Let me design what I need to design, require  
13 me to have errors and omission insurance, if you have  
14 to make that a law. If it doesn't work, let the court  
15 system handle it.

16 I'll go back to what's the purpose of the  
17 Part Two. I think that it's probably a noble thing

18 where they're trying to prevent an engineering  
19 disaster from occurring by cross checking us. What  
20 the Department does is they check a real small part of  
21 the design, only the process. They don't check the  
22 structural. They don't check the electrical. They  
23 don't check the constructability. I have a business  
24 where a good part of my business is when I'm doing  
25 forensic engineering. I'm in court figuring out who

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01 did something wrong. So obviously there are issues  
02 where they're getting through the Part Two permit.  
03 Some of them, by the way, that I see are horrendous.

04 So what I would suggest, that there be  
05 some study given to eliminating the Part Two permit.  
06 Give us the water quality under Part One. We design  
07 it, we build it. Put more emphasis on enforcement.  
08 Let the Department go out and look at the water  
09 quality. If it doesn't work, it'll be settled as to  
10 who's the problem. Was it the engineering, was the  
11 operation, did someone build it wrong? It'll save you  
12 a lot of time, the Department. It'll promote a lot of  
13 innovativeness. There may be some issues with having  
14 to be careful about some poor engineering being done,  
15 but as I said, there's poor engineering being done  
16 today that's getting through the system. I don't  
17 think it would be that much of a problem, but I would  
18 recommend that we look at that.

19 I'll give you another example of how that  
20 manual restricts innovation or practicality.



21 Washington, PA needs more capacity. We have done a  
22 study where that plant has a design rating that was  
23 established in its Part Two permit that we can treat  
24 ten million gallons a day. We're approaching that  
25 number. We've done a study. We have assembled a

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01 significant amount of actual operating data. We've  
02 simulated higher flows at that plant. And we've found  
03 we need that plant to treat 12 million gallons a day.  
04 That's two more million than the ten it's rated for.  
05 Two million gallons of capacity is probably worth \$10  
06 million of capital to try to build that. I am in my  
07 second or third year of trying to get that capacity  
08 approved.

09 I show you an example in that handout I  
10 gave you of the letter I got on the review of should  
11 it be allowed to go from 10 to 12. That DEP manual  
12 has a requirement in it that you must have 18 inches  
13 of freeboard, which is the level from the water in the  
14 tank to the top of the tank. We have a tank that has  
15 14. They want us to raise the walls of the tank.  
16 It's completely unnecessary, has nothing to do with  
17 the water quality. We are meeting the permit. Every  
18 condition of the permit we're meeting. Now, I'm not  
19 trying to be mean spirited. I'm just trying to  
20 emphasize to you that you have reviewers that go down  
21 that book, and if it's supposed to be red and we made  
22 it black, it kicks back to us tremendous cost,

23 tremendous time requirement, and I think it restricts  
24 innovation. So again, I go back, throw the book away.  
25 Come up with a system that eliminates the Part Two.

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01 Give us the water quality limits. Make sure every  
02 engineering firm has insurance. And let innovation  
03 take its place.

04 Also, the blending issue, again, I think  
05 is huge. It's huge. If we have to design and treat  
06 every drop of water, it's extremely expensive. Now,  
07 I'm not doing this to say that that saves rate money.  
08 What I'm saying is there is tons of money needed. You  
09 heard it. The systems are falling apart. We televise  
10 sewers. They're crumbling. Let's spend the money  
11 fixing that. Let's use that money to fix things that  
12 are needed. So my first recommendation eliminates  
13 part one. I think that the DEP design manual is the  
14 biggest barrier to innovation, some cost savings.

15 We've talked about accountability in  
16 practices here. I've heard a little bit about  
17 municipalities and authorities. I personally think  
18 the system that's in place now with the authority and  
19 municipal management is fine. I'm not sure how you  
20 get any better than that. Even in regards to the  
21 operations, again, granted there might be pockets or  
22 places where things might not be operated right, I am  
23 finding in general that the people who are running  
24 authorities in the larger communities actually have  
25 more talent and expertise than me. It is not unusual

01 for me to go to a client and ask about an operational  
02 issue, because we're seeing really high level talent  
03 in these places.

04           The comment was made about management. I  
05 agree that management's a big issue today, not the  
06 operational skills, but the management. But even  
07 there I am seeing some very professional people being  
08 managers, and even in some small towns up north, I  
09 worked with some people who are very professional. I  
10 believe on the operational side that there may be  
11 certain places where there are problems, but I think  
12 in the majority, things are running fine. I even  
13 think the training's fine. I don't think you need to  
14 do anything. The Rural Water, the American Water  
15 Works, the Pennsylvania Water Environment Association,  
16 they're active. They watch the operational. They  
17 watch the regulations and I think they react.  
18 Training, I think we're training people well.

19           The problem, I agree, is people retiring.  
20 I think what you need to do for sustainability, you've  
21 got to get into the school system. And I'm not  
22 talking about colleges. I'm talking high school,  
23 junior high. I mean, you somehow have to encourage  
24 the boys and girls in those schools to become --- and  
25 to get an enthusiasm for math, engineering, operations

01 and science. There is a dire need, I think it's

02 almost crisis in a lack of technical people and the  
03 people we're going to lose.

04           Relative to also sustainability, the  
05 Department has two in place systems that I think  
06 regulate things very well. Each year we're required,  
07 or clients are required, or permittees and plants are  
08 required, to be more accurate, to file what's called a  
09 Chapter 94 Wasteload Management report. It's filed  
10 every year in March. And what it does, it summarizes  
11 the previous year's flows and the four years prior to  
12 that, and it projects five years in advance. And the  
13 purpose of the report is to monitor whether facilities  
14 are approaching design conditions, they're going to be  
15 overloaded. There are other aspects of that report,  
16 though, that if they're done properly, highlight  
17 whether pump stations are inadequate, whether the  
18 sewer system has issues.

19           I think you can do several things with  
20 that existing program. Again, I think energy's a big  
21 issue. I think for sustainability, to save money so  
22 it can be used elsewhere, part of the 94 could be  
23 altered to require, whether it's a one-time energy  
24 audit, where you go in, let's look at these plans and  
25 see where energy's being expended and can we save

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01 money.

02           This is relatively old technology. We've  
03 gone into plants that were built in 1970s, replaced  
04 aeration equipment with newer aeration equipment and

05 cut the power bill by 30 percent. I sit there and  
06 think that most people know about that. I'm not sure  
07 that they do. But I think the 94 report energy audit  
08 requirement may be a one time --- might be something  
09 you want to look at. The other thing that you could  
10 do that would save the Department's time, and also, I  
11 believe, flag problem areas, the Chapter 94 reporting  
12 process is just a series of reporting flows, pollutant  
13 loadings.

14 I do not see why that could not be turned  
15 into a system where you develop a protocol where  
16 everybody is submitting, in some standard form, on the  
17 Internet, and not only that, you could have the logic  
18 in the software that would --- and there are technical  
19 flags that can be --- because everything's  
20 quantitative. It's not qualitative. It's a number  
21 where if the number is exceeded, it kicks it out. My  
22 suspicions are that reports we submit don't get  
23 reviewed for years, because they're overworked. But I  
24 think the 94 process is a very good system. I think  
25 it can be expanded. I think energy should be started

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01 to be looked at, whether it's a one-time audit or not.

02 The other thing that could be  
03 incorporated might go to the management aspect or  
04 concern that the prior testifier alluded to. When you  
05 finance a project using the municipal bond market,  
06 there is a trustee appointed who keeps track of the

07 bonds and who gets paid those bonds. And in that  
08 trust, the trustee writes an agreement with the entity  
09 to whom they're lending money, called a trust  
10 indenture, and there are requirements in there that  
11 state that if we're going to lend you this money,  
12 we're going to get this bond money, we're going to  
13 float it for you, here's some things you're going to  
14 do for us to make sure things are going right.

15           And one of the things in there is called  
16 an annual engineer's report, and I included a copy of  
17 the verbiage of the trust indenture. But what it says  
18 is every year, you will have an engineer do this  
19 report. It tells you whether the rates are adequate.  
20 It will tell us whether the budget they made up is  
21 adequate. You will provide some coverage over your  
22 expenses, O&M and debt, that you will save, and you're  
23 going to use that money to fix some things. You will  
24 tell us whether you have proper insurance, and which,  
25 by the way, I always object to, because I'm not an

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01 insurance person, but they have certifying insurance  
02 issues. You'll tell us whether the plant's working  
03 right.

04           It's a relatively simple report, but we  
05 file it every year on these systems that have been  
06 financed with bonds with the holders of the bonds,  
07 because the bondholder wanted to make sure I get paid.  
08 I don't know how you can incorporate --- I don't know  
09 --- I think you should in some manner maybe require,

10 whether you have a bond issue or not, where if it's  
11 PENNVEST, make it a part of the PENNVEST program,  
12 you're going to do an annual report every year. And  
13 the legality, if it puts some legal responsibility on  
14 me to write a decent report, when I write reports for  
15 authorities, I sometimes have the authority board  
16 sitting there, and they're under the impression I'm  
17 writing this report for them, and they may even  
18 critique it that they don't like this or don't like  
19 that, and I remind them rather bluntly, I'm not  
20 writing this report for you and I will not listen to  
21 what you tell me unless it's something very obviously  
22 wrong in terms of an error. This report's being  
23 written as fiduciary responsibilities because there's  
24 people that hold debt on you.

25 If somehow you can incorporate into the

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01 PENNVEST program that report, it might help the  
02 management issue, because aside from the operational,  
03 there are management issues, where, as Mr. Meyers  
04 pointed out, his authority looking down the road and  
05 looking at what's needed, and the time frame and the  
06 money, even though facilities may be operated  
07 properly, there may be management issues where they  
08 stop looking down the road or saving sufficient money.  
09 Some type of annual report may help that situation.

10 Regionalization, we talked about that. I  
11 know it can be a cantankerous issue. My comments on

12 that, my opinion, the Act 537 planning process that's  
13 required by municipalities, so it's not an authority  
14 function, it's required by municipalities, I thought  
15 long and hard before I came here as to, is that  
16 adequate? And I believe it is. I think the 537  
17 process where you have all these planning activities  
18 you look at and it's being done through the  
19 municipality, even though an authority may be doing it  
20 on behalf, it's the municipality's going to approve  
21 it, I believe it's still the best method available  
22 that determines whether you regionalize or not.

23 I think it's wrong to think that  
24 regionalization's the answer to everything. In fact,  
25 if today you held a gun to my head and said,

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01 regionalize or not regionalize, I tend to lean towards  
02 not regionalize. I think that there are economies of  
03 regionalization, but I think there are times when the  
04 solution to problems would be a lot better if every  
05 watershed had its own little plant. You know, in the  
06 City of Pittsburgh, and I have no knowledge, but when  
07 you look at it, do you spend \$3 billion fixing the  
08 Alcasan facility, or would you have been better off  
09 building a \$30 million plant in each of the  
10 watersheds?

11 My point being is that I don't think  
12 regionalization should just be assumed to be the  
13 answer to everything, and I also believe the 537  
14 process resolves that. If it's done properly, it



15 brings all the issues to the table, and some of them  
16 can be very difficult, where, as the gentleman said,  
17 the tendency is to think that authorities have too  
18 much power, that they're not representing my  
19 interests. In general, I think the situations where  
20 I've been, and that issue's becoming more and more of  
21 a problem where municipalities are going in and taking  
22 over the authorities, I've actually seen the opposite  
23 occur. I've seen municipalities go in, take over the  
24 authorities, take the funds that the authority had,  
25 use them to build a community center and then not run

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01 the facility, in my opinion, as well as the authority  
02 did.

03           The authorities tend to be very  
04 specialized on wastewater, which is a very complicated  
05 business, or water, which is very complicated.  
06 They're also somewhat isolated from the fact that  
07 they'd be elected every four years. Therefore,  
08 there's a tendency to say I want to do this, and not  
09 worry about half the populace, even though it's  
10 needed, that the populace isn't going to accept that.  
11 So I tend to like the authority system. I think the  
12 municipal authority's an excellent thing. I think the  
13 537 process is fine in terms of whether you  
14 regionalize or not if it's done properly.

15           I also have a comment in here on on-lot  
16 systems. I happen to own a place north of here that I

17 live at on weekends, and I had a survey done on the  
18 place, and I was cited as part of a number of people  
19 in this area-wide survey as a reason that there should  
20 be a facility building, public facility, even though I  
21 live three miles from the base of the hill. My  
22 citation had to do with I didn't have a spring on my  
23 outhouse door, and apparently if you don't have a  
24 spring on the door and it overflows, that's some kind  
25 of issue. But that is a real criteria that I was

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01 cited for.

02 I believe on-lot system management, I  
03 think on-lot systems work. I have done sewer projects  
04 where I've built big sewer systems in communities  
05 where I had to be escorted out of the town in a police  
06 car because half the audience felt that their sewer  
07 system worked and I was the culprit that was going to  
08 cost us \$10 million for a project. So I understand  
09 that side. My system works. I can't even tell you  
10 what I have. My suspicions are it's a 50-gallon drum  
11 that's been shot with a shotgun and some pipe, but I  
12 do not have sewage running out. My well water's been  
13 tested. It's good.

14 Point is this. On the on-lot, and maybe  
15 Dana knows, this could be done already, rather than  
16 giving criteria like the DEP manual, where you have to  
17 be this big and have to have this size, maybe the  
18 criteria could be performance based. I mean, if my  
19 well's fine, if I don't have an obvious discharge to

20 the road --- and I don't know what that criteria would  
21 be, but there've got to be experts that can come up  
22 with criteria that says just because you don't have a  
23 one-acre lot, you've got to replace your system.  
24 Maybe there's one-acre lots where systems don't work,  
25 where my little lot system works.

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01 So I think the on-lot management  
02 program's going to be looked at, because it is  
03 generating --- in the case of where I'm at, it's a  
04 significantly sized sewer project in some very small  
05 towns where I've lived there for 15 years. I don't  
06 have all the data that was used, but I don't see a  
07 problem. And I sort of sympathize with the people  
08 that are there. And granted, if I did the study and  
09 there was a problem, I'd say here's a problem. So I  
10 think there could be significant capital spent there  
11 where there might not need to be, because of the fact  
12 that you have these general standards for on-lot  
13 systems. Your lot's too small. Doesn't matter, does  
14 it work. Your lot's too small. So I think that could  
15 be looked at.

16 In general, some restrictions that I  
17 think need to be addressed, and I'll state these, and  
18 I know there are other political and social issues  
19 involved with some of this. The Prevailing Wage Act,  
20 and again, I know that's probably untouchable, but it  
21 costs a lot of money. The Steel Procurement Act,

22 again, probably a lot of social and political  
23 opposition to eliminating that, but the facts are  
24 today it's hard to buy materials that are all American  
25 made. I think that's something that I'm not sure is

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01 still relevant.

02           The idea, and I'm not convinced of this  
03 as of yet, of design build --- traditionally in this  
04 state, you hire an engineer to prepare bid documents,  
05 you put the process up for bid, and you select a  
06 contractor that's the low bidder, they build it, they  
07 leave. I just got done with a project in Maryland  
08 where a water plant had a very severe problem. We  
09 were retained along with the contractor and equipments  
10 supplier, and we went in, and in a year and a half,  
11 built an addition to a six billion gallon a day water  
12 plant to correct the problem. On the surface, to me,  
13 95 percent of my projects are traditional engineer put  
14 up for bid. That idea of hiring a team to go in and  
15 design it and build it and we started it up and the  
16 manufacturer warranted work we did, and then we left,  
17 went extremely well, so well, in fact, that we're  
18 doing other design build work.

19           Again, that is something I would throw  
20 out as a way of allowing people to do things today. I  
21 can tell you this. With some of the authorities I  
22 work with, they're already moving that way. Whether  
23 it's legal or not, I don't know. That's not my  
24 business. But I have seen authorities increasingly

25 not putting things out for bid. They may bid the pipe

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01 out, and then they're retaining some local contractor  
02 who's putting the pipe in, or buying a pump and  
03 retaining a local contractor to put the pump in,  
04 rather than pay to have it engineered, bid, put out,  
05 and it seems to be working. Granted thereto, I think  
06 all these systems developed because there must have  
07 been problems in the past, and we tend to enact these  
08 things to prevent collusion or whatever else is, but  
09 the design build process seems to be working well in  
10 some of these communities.

11 But in closing, I guess the one thing I'd  
12 emphasize, and I'm only asking that you consider it,  
13 but I don't know all the ramifications, I think the  
14 Part Two permitting process restricts innovation. I  
15 think it burdens the Department when they don't ---  
16 when they're struggling now with workforce. And I  
17 think, like in the case of Washington, PA, where to  
18 secure some approval and gain additional capacity when  
19 it's being compared against --- it's taking years to  
20 do this, maybe what you do, maybe it's something for  
21 another committee, maybe you have a peer review system  
22 where you can have other engineers where the permittee  
23 pays to say that something's workable.

24 I believe I touched everything. As I  
25 said, it might be a little bit disjointed, but I went

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01 by the questioning and I did give you a handout there  
02 if you want to read it.

03 CHAIR HUTCHINSON:

04 We're going to break for one minute so  
05 the stenographer can change her paper. So we'll have  
06 a moment of silence.

07 SHORT BREAK TAKEN

08 CHAIR HUTCHINSON:

09 All right. I think we're ready to go.  
10 I'd like to call Paul Marchetti forward. Paul? Paul  
11 is actually, I believe, a member of the Task Force.  
12 He is best known as head of PENNVEST, and we're just  
13 delighted to have him here. I know ---.

14 MR. MARCHETTI:

15 Up there?

16 CHAIR HUTCHINSON:

17 Yes, please. And I know in some of the  
18 previous meetings, that some suggestions or questions  
19 have been raised regarding the PENNVEST process, et  
20 cetera, and maybe you'll have a chance to talk a  
21 little bit about that while you're talking today. So  
22 thank you, Paul.

23 MR. MARCHETTI:

24 Sure. Thanks for the opportunity. I'm  
25 happy to be here. I didn't really come with a

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01 prepared statement, but I am happy to be part of the  
02 Task Force. I also happen to be chair of one of the  
03 committees looking at financial resources and what we

04 have available. And I think this whole effort is a  
05 really important endeavor for all of us to be  
06 undertaking. And we're well aware of what the  
07 problems are in terms of funding infrastructure  
08 projects and what the great need has been out there  
09 for any funding agency, be it ours or others in the  
10 Commonwealth or in other states for that matter.

11 We're facing a tremendous need. We may  
12 not be able to fill that need, largely, but not  
13 exclusively, due to the fact that we're having  
14 reductions in funding coming from the federal level,  
15 particularly for wastewater projects, and that's been  
16 a real problem for us over the last few years. We're  
17 now only able to get to about maybe two-thirds to a  
18 half of the wastewater projects that are coming in to  
19 us, and that trend is only going to get worse unless  
20 something happens in Washington to improve the  
21 allocation of resources to this effort.

22 But that having been said, I think there  
23 are things that we could be looking at to make our  
24 financial resources go farther, and it's something  
25 that we're trying to look at in PENNVEST, and I think

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01 other agencies are looking at it as well. One is an  
02 important thing I still hope that we can help get off  
03 the ground, although it's really a DEP initiative, is  
04 this nutrient trading program, which, for those of you  
05 who don't know, I mean, what we're trying to encourage

06 is for wastewater projects, and this is particularly  
07 in the Chesapeake Bay area drainage basin, if there  
08 are alternatives that are cheaper to physical plant  
09 upgrades.

10 For example, farmers putting in what are  
11 called best management practices. What they can do if  
12 they do that is create, and this is primarily for  
13 nitrogen and phosphorous, but they can create what is  
14 called a tradable nutrient credit, and that allows a  
15 wastewater treatment plant that also has to meet  
16 nitrogen and phosphorous limits, it allows them to  
17 meet those requirements by purchasing that credit from  
18 a farmer instead of doing a physical plant upgrade.

19 It's fairly well established that  
20 agricultural BMPs, as they're called, are very often a  
21 cheaper way to go in order to meet nitrogen and  
22 phosphorous discharge limits than capital upgrades at  
23 wastewater treatment plants. And that's why this is a  
24 good program. DEP has been working on this for many  
25 years. We're trying to figure out a way that we could

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01 fund the purchase of credits. Right now a lot of our  
02 money comes from EPA. EPA won't let us use that money  
03 to lend to people to buy nutrient credits. We're  
04 actually in discussions with EPA headquarters in D.C.  
05 to see if we can get them to change their minds on  
06 that. And I'm hopeful that we might be able to do  
07 that, only because I think, again, we need to figure  
08 out creative ways to stretch our financial resources,



09 and that's one of them, because it could be  
10 representing a significant cost savings for wastewater  
11 treatment plants in the Chesapeake Bay area if we can  
12 somehow figure out a way to encourage this nutrient  
13 trading program. So I'm hopeful that that is going to  
14 get off the ground and we'll be able to participate in  
15 that.

16 Another thing that people --- an issue  
17 that I hear kicked around a lot and has been today is  
18 looking at other non-capital ways of addressing our  
19 wastewater water quality problems. I'm talking mainly  
20 about wastewater here. You could extend it to  
21 drinking water as well, but I tend to think of it in  
22 terms of wastewater since that's where really our  
23 funding challenges tend to be right now. And I think  
24 we should be broadening our view of the kinds of  
25 projects we can fund. Again, nutrient credits is one

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01 of them, but I think we've got to be looking at, and  
02 for PENNVEST as well, and other funding agencies,  
03 looking at being able to fund non-structural and non-  
04 capital alternatives, like circuit rider programs, for  
05 example, and being able to fund programs where you  
06 have on-lot management instead of --- you know, if you  
07 have wastewater problems in an area where you have  
08 widely dispersed homes and you don't want to be  
09 running lines everywhere, as Dana mentioned, but where  
10 a circuit rider program may make more sense, right now

11 we can't really fund that, because it's more like an  
12 operating and maintenance cost. It's not a capital  
13 cost. And I think we think too narrowly when we try  
14 to focus all of our subsidies and our assistance on  
15 capital. That seems to me, I think, a mistake.

16 CHAIR WHITE:

17 Paul, excuse me. What is a circuit rider  
18 program?

19 MR. MARCHETTI:

20 Where you have like a centralized  
21 management of --- you might have a wastewater  
22 treatment plant or system that would have somebody go  
23 out and look --- have a central management of smaller  
24 regional --- smaller wastewater treatment projects in  
25 a region, for example --- I mean, but they don't

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01 necessarily know how to run them or they don't  
02 necessarily need somebody there 24 hours a day to run  
03 these little package plants. But you have somebody go  
04 out and manage them and look at them and make sure  
05 they're being maintained and operated correctly from a  
06 centralized management system as opposed --- so it  
07 allows you to manage these systems that could be a  
08 regional system without having to run lines  
09 everywhere. But anyway, they're riding the circuit,  
10 as it were, of these little package treatment plants.  
11 That might be one way to think of a ---.

12 But anyway, we can't really fund that  
13 now. We don't have a subsidy mechanism or funding

14 mechanism for doing that. I think that's something  
15 I'm trying to work on, and actually, I'm anticipating  
16 a little presentation I'm going to be doing tomorrow  
17 on this very issue. But we may be able to create  
18 funding accounts, as I call them, where we can  
19 actually give somebody a loan that they will have a  
20 pot of money to draw upon over a period of time to  
21 fund operating maintenance costs for circuit rider  
22 programs or other non-capital costs, and I think we  
23 need to think about that, because these are  
24 potentially more cost-effective solutions, and we're,  
25 I think, losing a lot of opportunities to save money

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01 if we continue to focus all of our funding and all of  
02 our subsidies on capital attempts at solutions. In  
03 some cases they're needed, but I don't think they're  
04 always needed, so I think we need to be thinking more  
05 broadly about how we can provide funding to help solve  
06 these.

07           It's the solution to the problem that you  
08 want to subsidize. You don't necessarily want to  
09 subsidize one type of solution which is capital  
10 intensive. That's really what we've been doing up  
11 until now. So I encourage all of us to be thinking  
12 more broadly about how we can address these solutions,  
13 because we don't have enough money. We simply do not  
14 have enough money, and we're not going to have enough  
15 money to solve all of these problems at the state

16 level or even at the federal level, so we need to make  
17 as smart a use of what limited resources we have to  
18 stretch as far as we can. So that's sort of my pitch,  
19 but if anyone --- if you have a comment or question, I  
20 would be happy to ---.

21 CHAIR WHITE:

22 Thank you for your time. That's exactly  
23 what we wanted.

24 CHAIR HUTCHINSON:

25 Paul, the only other, and maybe this is

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01 too wide reaching, and maybe it's something that you,  
02 as your subgroup moves forward, at our first hearing  
03 in Harrisburg, mention was made of the voluminous  
04 application process that PENNVEST has in comparison to  
05 getting money ---.

06 MR. MARCHETTI:

07 From a commercial bank. Yeah. I  
08 remember that.

09 CHAIR HUTCHINSON:

10 Yes. The little thing versus this.

11 MR. MARCHETTI:

12 Right.

13 CHAIR HUTCHINSON:

14 And obviously, you know, there are  
15 differences between commercial financing and  
16 government financing, but I just want assurances that  
17 we are doing all we can as lawmakers, as oversight of  
18 the regulatory process, that we can make your process

19 as easy to deal with and as less cumbersome on those  
20 who are applying for funding, and is there anything we  
21 can do to make your process easier and more  
22 user-friendly?

23 MR. MARCHETTI:

24 I'm not sure about that, although that's  
25 an excellent question. It's something we need to

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01 think about. But let me comment on that comment that  
02 we've heard, because it's true. I mean, we do have  
03 --- the issue that the representative was talking  
04 about is at the last Task Force meeting, one of the  
05 presenters held up a PENNVEST application that was  
06 like this big (indicating) and all the stuff you have  
07 to go through to submit that application, and then  
08 held up an application to a bank that was about this  
09 big (indicating), and the comment being, well, Jesus,  
10 you know, it's an awful lot easier to go that route  
11 than this route.

12 Well, the reason is that banks don't  
13 really care about anything other than getting repaid.  
14 That's all they care about. They're happy to lend you  
15 this money as long as you're going to pay it back.  
16 And, well, we worry about that, too, but in addition  
17 to worrying about that, we have to make sure that  
18 anything that we fund we have sufficient information  
19 to rank that project, because you want to, again,  
20 target your limited funding towards those projects

21 that are going to have the most environmental or  
22 public health bang for the buck. You need to collect  
23 certain information to do that. We also need to  
24 collect information on user rates and household income  
25 and all these other things that we use to measure

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01 affordability so that we can target our subsidies  
02 where they're really needed the most. We have to make  
03 sure these projects are permitable by DEP. A lot of  
04 what that person was holding up, I believe, was the  
05 537 permit information. Yeah, these projects need to  
06 be permitted. A bank doesn't care about any of that.

07           The ironic thing about that comment,  
08 frankly, was that whenever we're talking about  
09 sustainable infrastructure and what a good thing it  
10 is, and asset management and so forth, that person, as  
11 well as any others who's making that suggestion that  
12 if you're going to apply to PENNVEST, you've got to  
13 have this, that or the other sustainable  
14 infrastructure requirement in order to get PENNVEST  
15 funding. Asset management, it ought to be --- I keep  
16 hearing this. It should be a condition of applying  
17 for our funding to make sure you have adequate asset  
18 management or adequate safeguards for ensuring  
19 sustainable infrastructure. I've heard this for years  
20 from EPA, because EPA has been chanting this  
21 sustainable infrastructure notion for a long time now.

22           My comment is this. If all of these  
23 ideas are good, and I agree they are, they should be

24 required not --- they should not be limited to a  
25 particular funding source. They should be required of

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01 everybody. And in fact, if EPA, at the federal level  
02 they think this is such a good idea, then that ought  
03 to be a requirement in order for anyone to issue a tax  
04 exempt municipal bond for water and sewer projects. I  
05 bet there are --- I haven't added it up, but there are  
06 billions of dollars in subsidies given out every year  
07 by the federal government in the form of tax exemption  
08 for municipal bonds. Well, if sustainable  
09 infrastructure is a good idea, they ought to tie that  
10 requirement to the ability to issue tax exempt debt.

11           That's taking it to its farthest extreme,  
12 but my point is, these requirements, we have a lot of  
13 requirements because we have to fulfill certain  
14 obligations when we hand out the money that we hand  
15 out, and I think those obligations are good, but they  
16 shouldn't be limited to us. They shouldn't be limited  
17 even, necessarily, to financing programs. They should  
18 be tied to the accessibility of a community to any  
19 sort of government subsidy. If they were a good idea  
20 for our program, they should be a good idea for every  
21 program.

22           In answer to your question, I'm not sure  
23 that there is a good answer, because a lot of these  
24 requirements are very good ones and they are ones that  
25 we want to support and they achieve or move us in the

01 direction of goals that you want to support, like,  
02 again, targeting your money where it's needed from an  
03 affordability point of view, targeting where it's  
04 needed from a public health and environmental point of  
05 view, targeting your subsidies where it makes the most  
06 sense from a long-run infrastructure sustainability  
07 point of view. All I'm saying is it shouldn't be  
08 unique to us, or any funding program, for that matter.  
09 So that's my speech on that issue.

10 CHAIR HUTCHINSON:

11 Thank you very much. I appreciate that.  
12 You have anything further?

13 CHAIR WHITE:

14 No.

15 CHAIR HUTCHINSON:

16 Okay. One other that I'd like to call.  
17 And thank you, Paul.

18 MR. MARCHETTI:

19 Sure.

20 CHAIR HUTCHINSON:

21 Jeff Allio.

22 MR. ALLIO:

23 Hello. I'm Jeff Allio. I'm currently  
24 employed by RCAP Solutions in Meadville, Pennsylvania.  
25 Before that, for 11 years, I was a DEP ---.

01 CHAIR WHITE:

02 Speak up a little bit, please. I'm not



03 sure they can hear you.

04 MR. ALLIO:

05 Before that, I was employed by DEP as a  
06 local government liaison. I currently have 14  
07 projects in Northwestern Pennsylvania addressing  
08 emergency response, security, vulnerability and asset  
09 management plans in small sewer and water projects.  
10 My organization would like to partner with you in  
11 facilitating sustainable infrastructure in the  
12 Commonwealth. I am here, however, as a private  
13 citizen to share my perspective of these issues that  
14 you are addressing due to the short timeframe to  
15 prepare my remarks.

16 RCAP Solutions is a member organization  
17 of the National Rural Community Assistance Partnership  
18 Network. RCAP Solutions is a comprehensive nonprofit  
19 community development agency covering the northeast  
20 region of the United States, including the Virgin  
21 Islands and Puerto Rico. We are based in Gardner,  
22 Massachusetts. Currently we have four employees in  
23 Pennsylvania and have worked with over 200 different  
24 communities in the Commonwealth. Our network enables  
25 federal grants to empower our members to assist small,

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01 rural communities to assess their needs, begin  
02 planning to meet their needs, and build partnerships  
03 to address solutions to fulfill their needs. In  
04 Pennsylvania we focus primarily on sewer and water

05 capacity building projects, while other states have  
06 more of a focus on housing and community planning.

07 No community is too small for us to work  
08 with as long as we have adequate funding. I have  
09 personally worked with one 36-member water association  
10 to address compliance needs to meet the copper rule  
11 requirements of the Safe Drinking Water Act and begin  
12 the process of replacing 90-year-old water lines that  
13 leak like a sieve with our \$55,000 loan. Also a lot  
14 of leadership development.

15 The viability of this organization hangs  
16 on a thread, and yet I am amazed at the heroic effort  
17 of this small group to keep it going. Many of the  
18 small groups that I work with that own and are  
19 responsible for the operation and upkeep of these  
20 public facilities would gladly turn their  
21 responsibilities over to other entities, even for one  
22 dollar, if they could get out from under the daily  
23 operations and the responsibilities that go with them.  
24 No one wants them, however. They are not economically  
25 viable. It is not what you can build that is

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01 important. It's what you can sustain. And that is  
02 critical to the viability of many small entities that  
03 are responsible for the safety and public health and  
04 the improvement of the water source.

05 My coworker in Maine and I have developed  
06 an asset management spreadsheet tool that is very  
07 effective in helping small water and sewer systems

08 address their needs in developing sustainable reserves  
09 to handle emergencies and long-term replacement of  
10 their capital equipment in their rural infrastructure.  
11 Although there are more sophisticated asset management  
12 tools available in the market, our local tool enables  
13 us to develop a comprehensive inventory, address  
14 priority, and project replacement cost value of each  
15 major component.

16           It is important for them, the local  
17 governing boards, to get started on best management  
18 practice. With our outreach and technical assistance,  
19 we can show a skeptical volunteer that the end of a  
20 long march begins with a small step. They have the  
21 ability to cut and paste our data from our tool onto  
22 more sophisticated tools in the future once they see  
23 the value of the asset management tool. Anticipation  
24 of realistic capital replacement costs is critical to  
25 sustainability. This tool will improve the security

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01 of these small infrastructure systems, while at the  
02 same time allow the manager to identify if they have a  
03 sufficient rate structure to maintain the system and  
04 avoid the neglect that they often see in extremely  
05 small systems.

06           Currently at this time, we only work with  
07 sewer and water systems that are funded by USDA-RUS  
08 programs. If the Department could provide funding, we  
09 would be very grateful for the opportunity to extend

10 this service to the other small systems in the  
11 Commonwealth. Larger systems are more likely to see  
12 the value of this type of tool and invest to meet the  
13 GASBY 34 requirements. Systems under the radar screen  
14 of these accounting firms need a little more  
15 encouragement to implement these best management  
16 practices.

17           The Indiana County model of developing  
18 infrastructure with centralized planning and  
19 management has a lot of merit for you to consider.  
20 While I would encourage more centralized management of  
21 sewer and water systems, I believe the decentralized  
22 approach to technology and equipment will prevent  
23 sprawl as identified as a burden to state financing of  
24 infrastructure in Governor Ridge's environmental  
25 millennium study. Recharging the aquifers near the

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01 point of use makes sense economically and regionally  
02 and environmentally. Improved management will assure  
03 sustainability.

04           I would encourage your task force to  
05 review the RCAP Solutions website, and I put the  
06 website on the copy, to see our innovative approach  
07 RCAP Solutions has working in the Commonwealth of  
08 Massachusetts and the State of New Hampshire. There  
09 we are working mostly with low income residents in  
10 manufactured home parks to form a cooperative and buy  
11 the property from the owner of the trailer park, in  
12 some cases for a dollar. Once the new owners take

13 pride in ownership of their property, they also invest  
14 in bringing the sewer and water system into  
15 compliance. The reason that the owner wants to sell  
16 it is because they've got responsibility for taking  
17 care of it.

18 I would encourage the Commonwealth to  
19 provide incentives to form countywide authorities to  
20 supervise local cooperatives that would manage sewer  
21 water and stormwater facilities by micro-watershed  
22 management districts. I suggest you use the  
23 Pennsylvania DEP stormwater watershed map as a guide  
24 for defining those districts. They would be allowed  
25 by democratic vote of 60 percent of participating

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01 residents to form a cooperative business entity to  
02 manage their infrastructure, with local governments to  
03 make minor adjustments to the boundaries, such as a  
04 road instead of a hilltop. A management entity with a  
05 population base of 5,000 people should be able to  
06 manage with improved professionalism. Once formed, if  
07 these cooperatives fail, they would be more attractive  
08 to private entities and/or county authorities who have  
09 the ability to sustain viability through economies of  
10 scale and professional management. Failure to  
11 maintain environmental and fiscal viability standards  
12 would require county intercession, such as like a  
13 distressed community.

14 An EDU rate, equivalent dwelling unit,

15 can be assessed equally among households and  
16 businesses to the district to meet the Delaware River,  
17 Chesapeake Bay and Ohio River strategies. For  
18 example, a commercial facility may rate at five EDUs  
19 for sewage and 10 EDUs for stormwater. This approach  
20 would be a more fair way to assess human environmental  
21 impact. The EDU could be a measurement for barter  
22 between the infrastructure impact and the acreage  
23 impact of the agricultural community. In a distressed  
24 status, these would be in a form of a special use tax  
25 recoverable as a lien on the property.

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01           Although I could never imagine  
02 Pennsylvanians restructuring local government by  
03 watershed as they have in New Zealand, I believe that  
04 some simple form of a scientific-based environmental  
05 impact fee could be established to address our impact  
06 on the environment. The fee would be based on  
07 degradation and sustainability of the upkeep of the  
08 infrastructure to minimize that impact.

09           Once a fair impact fee would be  
10 established, I believe a voucher system could be used  
11 to address affordability. I believe subsidies could  
12 and should be used to address regional economic needs.  
13 In Northwestern Pennsylvania, the demographic  
14 information indicates there is an outflow of  
15 population and there is just not the political will of  
16 managers to raise the rates to sustain the viability  
17 of these critically important systems. We have

18 watched delinquencies consume hours and days of local  
19 governing boards' time in addressing politically very  
20 unpopular decisions with their neighbors.

21           At public meetings we always state that  
22 there are only two things you can do to pay your  
23 bills. One, bring more people online, or two, raise  
24 the rate. When neither is available, a third option  
25 has to be created by the state. A demographic-based

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01 voucher type of grant formulated on economic  
02 development goals could bring some equity across the  
03 region. Vouchers can be phased out as the system  
04 demonstrates financial viability, financial  
05 sustainability with affordable rates. Possibly the  
06 Department of Welfare could partner with DEP and local  
07 system managers to facilitate proper methodology for  
08 the distribution of vouchers while allowing the local  
09 system managers to develop sufficient rate structures  
10 to promote financial sustainability of the  
11 infrastructure.

12           RCAP Solutions provides training and  
13 other services. We have developed a one-day workshop  
14 demonstrating the benefits of decentralized sewage  
15 management for on-lot systems. We are recognized by  
16 PENNVEST, CDBG and USDA-RUS for effective and  
17 objective income surveys. We are good at assisting  
18 communities demonstrating low to moderate income  
19 populations within their project area.

20                   Through the RCAP network, we facilitate  
21                   small loans up to \$100,000 for ten years for emergency  
22                   repair and system improvements. We have developed ten  
23                   45-minute long governing board training modules to  
24                   facilitate technical, managerial and financial  
25                   capacity building. We can do these training modules

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01                   on site as part of our outreach work. Your water  
02                   program staff has approved these trainings for small  
03                   water systems. We hope and look forward to funding to  
04                   continue this outreach along with our asset management  
05                   work.

06                   Since PVC plastic is an oil based  
07                   byproduct, there should be a special study to  
08                   determine the impact of peak oil syndrome on  
09                   environmental infrastructure. The fiscal impact on  
10                   communities that have yet to address their  
11                   environmental impacts or are in need to upgrade their  
12                   current environment infrastructure need not be put to  
13                   a disadvantage. That is to assume that the leaders in  
14                   the state believe that PVC products are superior to  
15                   the other types of infrastructure products. Since you  
16                   cannot address all communities at one time, following  
17                   the low hanging fruit approach has the disadvantages  
18                   to communities in the more remote areas. Essentially,  
19                   you are placing a greater financial burden on a  
20                   smaller group of people living in areas with smaller  
21                   economic growth potential to meet the same  
22                   environmental standards, I will add, through nobody's



23 fault other than global demand for oil based products.  
24 I do not presume to have any advice on this matter. I  
25 just think it is in the interest of the Commonwealth's

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01 long-term financing needs that superior products be  
02 encouraged because of their long-term life cycle  
03 maintenance benefit.

04 Land application of biosolids has not  
05 proven economically viable in many parts of the state.  
06 I believe more incentives are needed to encourage the  
07 use of this resource as a soil amendment in strip mine  
08 reclamation to enhance the growth of switch grass or  
09 other non-food products. Possibly electricity credits  
10 could be used to overcome barriers where electrical  
11 generation is the end product. The state, through  
12 regional planning agencies, need to stimulate the use  
13 of transferable development rights programs at the  
14 local level which can preserve riparian buffers along  
15 waterways and source water protection zones for  
16 drinking water supplies in the form of green  
17 infrastructure. Local municipal resources are not  
18 adequate in Northwestern Pennsylvania to meet ideal  
19 land use goals alone.

20 I thank you for the opportunity to share  
21 my insights to the issues you are addressing. I will  
22 provide my contact information with a hard copy of  
23 this presentation to the Department. And I've  
24 included several brochures that we have. We have one

25 on asset management, loans, our income surveys and our

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01 decentralized wastewater training. Also, I have  
02 included a couple samples of our newsletter that we  
03 provide to project leaders. I can leave this with you  
04 folks, and then I just need to drop off a copy at your  
05 offices.

06 CHAIR WHITE:

07 Yes.

08 MR. ALLIO:

09 Okay? Thank you.

10 CHAIR HUTCHINSON:

11 Anything?

12 CHAIR WHITE:

13 No.

14 CHAIR HUTCHINSON:

15 Okay, folks. We've come to the end of  
16 our hearing. I want to thank, first of all, our  
17 testifiers, and I also want to remind anyone else who  
18 wishes to provide input that there is an e-mail  
19 address, [ra-sitaskforce@state.pa.us](mailto:ra-sitaskforce@state.pa.us), if you wish to  
20 provide further comments in writing at that address,  
21 or if you funnel it to myself or Senator White, I'm  
22 sure we can get them included as part of the record.  
23 There is a deadline for the submittal of those  
24 comments, and that is June 1st, and we are up against  
25 a deadline for this task force, so that will be a hard

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01 deadline, I believe. So with that, do you have

02 anything further to say, Senator?

03 CHAIR WHITE:

04 No.

05 CHAIR HUTCHINSON:

06 With that, I would like to call this  
07 meeting adjourned and thank everyone for their  
08 participation.

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11 MEETING CONCLUDED AT 3:15 P.M.

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