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AGENCY FOR TOXIC SUBSTANCES AND DISEASE REGISTRY**

convenes the

FIFTEENTH MEETING

PEASE COMMUNITY ASSISTANCE PANEL (CAP) MEETING

May 12, 2021

The verbatim transcript of the Meeting of the Pease Community Assistance Panel held virtually on May 12, 2021.

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P R O C E E D I N G S

(6:00 p.m.)

WELCOME AND INTRODUCTIONS

CDR MUTTER: Hey, there, everybody. Welcome to the Pease CAP meeting. We appreciate you coming tonight. We will go ahead and see who's on the line, and then we'll move on with our agenda. So, I'll start with the CAP members. Andrea, if you want to introduce yourself, please.

MS. AMICO: Andrea Amico, Pease CAP member, Portsmouth resident, and co- founder of Testing for Pease.

CDR MUTTER: Thank you. Karen?

MS. ANDERSON: Hi, I'm Karen Anderson, representing the town of Newington.

CDR MUTTER: Thank you. Lindsey?

MS. CARMICHAEL: Hey there. Lindsey Carmichael. Portsmouth resident and CAP member.

CDR MUTTER: Thank you. Michelle?

MS. DALTON: Hi, this is Michelle Dalton. I am a co-founder of Testing for Pease, and I also worked on Pease when there was contaminated water and my son went to daycare there.

CDR MUTTER: Thank you. Michelle? Oh, I just did Michelle. I'm sorry. Alayna?

MS. DAVIS: Hi, my name's Alayna Davis. I'm a Pease CAP member and also cofounder of Testing for Pease.

CDR MUTTER: Thank you. Do we have Rich DiPentima on? Okay, I don't think so. And I didn't see Senator Martha Fuller Clark either. Do we have Robert?

MR. HARBESON: Rob Harbeson, parent of two impacted kids and past chair of Great Bay Kids' [inaudible].

CDR MUTTER: Thank you. And Cliff Lazenby, he let me know he would not be able to join today. Toni?

MS. MCLELLAN: Toni McLellan, Portsmouth health inspector and Pease CAP member.

CDR MUTTER: Thank you. Is Russell Osgood on? I don't see him. Okay, Joe?

MR. RYAN: Joe Ryan, Pease CAP member and currently I reside in Dover, New Hampshire.

CDR MUTTER: Thank you. Is Jared on? I don't think I saw Jared Sheehan. Nope. Mark, is your audio working yet? So, we have Mark Sullivan on, okay, so his audio is not working. Shelley?

MS. VETTER: Yep, Shelley Vetter, owner of Discovery Child Enrichment Center on the Tradeport.

CDR MUTTER: Thank you. And our technical advisors; Dr. Carignan said she would not be able to make it. Dr. Durant?

DR. DURANT: Hi, I'm John Durant. I'm an environmental engineer. I work at Tufts University.

CDR MUTTER: Thank you. Laurel?

DR. SCHAIDER: Hi, Laurel Schaidler, senior scientist at Silent Spring Institute.

CDR MUTTER: Thank you. And I will go to ATSDR now. If you could just say your name and your title, I would appreciate it. Chris?

DR. REH: Chris Reh, Associate Director.

CDR MUTTER: Frank?

DR. BOVE: Frank Bove, co-PI on the study.

CDR MUTTER: Marian?

DR. PAVUK: Marian Pavuk, co-PI.

CDR MUTTER: Meghan?

MS. WEEMS: Hi, Meghan Weems. I'm the project manager for the Multi-site Study.

CDR MUTTER: Lori?

MS. LAUNI: Hi, Lori Launi, lead health communication specialist for PFAS.

CDR MUTTER: Kim?

MS. DILLS: Hi, Kim Dills, policy office.

CDR MUTTER: Gary?

CAPT PERLMAN: Hi. Good evening, everybody. Gary Perlman, ATSDR Region 1, regional representative for Region 1.

CDR MUTTER: Pam, if you don't mind introducing yourself too, please.

MS. WYTON: Of course. Pam Wyton, NCEH/ASTDR Office of Communication.

CDR MUTTER: And I am Jamie Mutter. I am the Pease CAP coordinator. And if we can have our contractors. Danielle?

DR. HUNT: Hi, Danielle Hunt, Pease study project director from Abt Associates.

CDR MUTTER: Thank you. Zuha?

MS. JEDDY: Hi, Zuha, sorry, put it on mute there, Zuha Jeddy, project manager on the Pease study on the Abt side.

CDR MUTTER: Thank you. Kate?

MS. DUROCHER: Kate Durocher, the communication task lead on the Abt side.

CDR MUTTER: And last, but not least, Lieutenant Colonel Heier.

TH: Hi, Lieutenant Colonel Tom Heier from the Air Force Deputy Secretariat of Air Force, for Environment Safety and Infrastructure, and the Deputy Director for Occupational Health. Thanks. Happy to be here.

CDR MUTTER: Thank you. Did I miss anybody? Okay, with that, let's go ahead and we'll get in introductions from Dr. Reh, and then we'll move on with the agenda.

DR. REH: Thanks, everyone, for being here tonight. I just wanted to mention one recent event that was fairly significant, and that is we finalized the PFAS toxicologic profile, and it was posted on our external website on Wednesday of last week. And so that was a significant accomplishment. A lot of people have been waiting for this. And so it's good to have it out and have it done. And I just also want the CAP to know that we've already started having discussions about updating it, and in looking not only at how the recent literature may affect the MRLs that are in the document, but also if there's enough information to develop MRLs for additional PFAS compounds. So, that process will take about a year. But we are going down the road to update what is now finalized and on the website. So, with that, that's all I have. I'd say Jamie, let's get going.

CDR MUTTER: Okay, can you all hear me?

DR. REH: Yes.

PEASE STUDY UPDATE

CDR MUTTER: I'm messing with my screen and I'm messing it all up. So, it's tough doing that. All right, so let's get started with the Pease study update. I'm going to kind of make this kind of a tag team update, because we've had some working, recruitment working group members very active over the past couple months. And I'd like to give them updates on a few activities that have happened. So, with that, Andrea, would you mind terribly giving an update on the outreach day that we had a couple weeks ago?

MS. AMICO: Sure, I can give an update. So, a few weeks ago on a Saturday, some CAP members got together and helped distribute lawn signs throughout the City of Portsmouth. And that was in part due to City Councilor Cliff Lazenby, who's on our CAP, who helped work with me to have a motion put into the Portsmouth City Council to approve the lawn signs being placed throughout the city. And so we were able to get unanimous approval for that. And the City of Portsmouth mayor was super supportive and asked to have a lawn sign on his yard. And so yeah, several CAP members came together on a Saturday and took all the lawn signs that ATSDR had, distributed them, distributed them throughout various places in the City of Portsmouth that are really highly visible in terms of traffic and people driving. Also that day, we took materials, flyers, and the trifold brochures, as well as flyers and postcards for PFAS Reach, which is another health study being done for the Pease population. And one of the CAB members from PFAS Reach also joined us that Saturday to distribute materials for both studies, which was wonderful. And we hung flyers in different places like grocery stores and coffee shops, libraries. And it just was a really successful day. We got a lot of information out there. And I continue to see the signs driving around town. People mention the signs to me often. We put about 60 signs in public places, and we had about 20 signs go to residential areas. So, that was good to have a mix. And we also had some media leading up to the signs. So, we had two different newspaper articles that covered the signs ahead of time in the newspaper, both locally, the Portsmouth Herald or Seacoast Online, as well as the Union Leader. And then the following week, I also was able to meet up with Senator Shaheen and her daughter Stephanie Shaheen and place a lawn sign at Stephanie's home in Portsmouth, and take a picture and put that on Facebook. So, really just trying to bring a lot of visibility to people driving in the area with these signs and brochures and flyers. It was a really successful day. And thank you to all the CAP members that volunteered to help and give your time on a Saturday to do that.

CDR MUTTER: Yes, thank you so much. I do want to follow up on that, that we are exploring also putting signs on the Pease Development Authority on the Tradeport. We have to get approval for that. And I believe the meeting is May 20th. Andrea, you can shake your head no if I'm incorrect. So, I don't know if you want to provide any other information on that, but we have to get that approval before we move forward with that.

MS. AMICO: Yeah, so we heard from Jared Sheehan, who's also a Pease CAP member that the Pease Development Authority has strict rules about placing lawn signs and things like that around the Tradeport. So, we were told not to put any signs up at this time. But my understanding is that Jared is drafting a similar motion that was drafted for the Portsmouth City Council, and the Pease Development Authority has a meeting on Thursday, May 20th. Yeah, so next Thursday, where they're going to review the request or the motion to put lawn signs throughout the Tradeport as well. And so hopefully if that is approved, then we will also have the permission to do that as well. We will need more signs, because we did distribute all the signs that we had. But I think that would also be really helpful for more visibility. I, you know, don't have a good sense of how many people are still going to work at Pease. I know there are some businesses open. I know that some businesses aren't. But I still think it's a good place to put the signs and hopefully the PDA will give us that approval [inaudible].

CDR MUTTER: Great. Thank you. And while I have you, I'm just going to go back to you, Andrea. Can you talk a little bit about the Portsmouth newsletter and about that going I think this week or this past week?

MS. AMICO: Yep. So, that ran on Monday. So, also I have to say the City of Portsmouth has been incredibly supportive and helpful not only with the lawn signs, but also they send out, I think it's a weekly newsletter, although sometimes I feel like I get e mails from them more frequently than that. But, again, Cliff Lazenby helped put me in touch with the City of Portsmouth communications contact person, as well as the city manager, and they agreed to put some information about the Pease Study in the newsletter. And my understanding of the newsletter is it goes out to folks that sign up to receive it. So, it's not like it goes to everybody. But, you know, I know a lot of residents do subscribe to get that letter. So, so, that was good. And they did put information in this past Monday, May 10th. It was pretty high up in the newsletter too, and it had an infographic of the Pease Study. And so that went out Monday. And so I'm really

appreciative of that support as well. Did you want me to talk about hazardous waste day too?

CDR MUTTER: I was going to save that for just a second.

MS. AMICO: Okay.

CDR MUTTER: Joe, if you wouldn't mind, would you give an update on the Patches announcement that went out? Joe, would you mind? I think you're on mute.

MR. RYAN: Yes. Hi.

CDR MUTTER: Could you give an update on the Patches announcement?

MR. RYAN: The patch?

CDR MUTTER: Yes.

MR. RYAN: Yes, yes. So, yeah, the Patch is still running in Portsmouth, as well as it ran for a week in New Hampton, North Hampton, and Exeter. It's still running in Portsmouth about the Pease Study. So, and I've also gone, I've taken some flyers and brochures along with my wife and have gone through downtown Portsmouth to coffee shops and restaurants and to distribute them and put them up on the bulletin board. We plan on going back because we didn't get to all of them. So

CDR MUTTER: Thank you for that. Appreciate that update.

MR. RYAN: Sure.

CDR MUTTER: Back to what Andrea was mentioning before, we do have an event scheduled for May 22nd. It's the hazardous waste recycle day. It's Portsmouth, Newington, is it Greenland. Did I get that right from memory?

MS. AMICO: Yeah.

CDR MUTTER: Okay, good. All right, and it's May 22nd, 8:00 to noon. We were going to ask for volunteers, or I did ask for volunteers. And it turns out the city agreed to hand out those materials for us. So, that is great news. We are going to make sure we have those printed materials. We'll just need to work with the working group on how to get that to the person in charge. But we will be able to have those materials ready to go. And that's exciting that we're going to reach so many people. So, thank you for all the work on that, especially Andrea. Now, did I miss anything from the working group anyway?

MS. AMICO: No, I think the only thing I would just continue to add is that I know there's been a lot of conversations with the State Health Department about outreaching the prior blood test participants, you know, to remind folks there are over 1,800 people who had their blood drawn through the blood testing program that started in 2015. The State Health Department holds the contact information for all those people. And those people were not consented in a way to be able to just share that information with ATSDR. And I know there's been a lot of conversations about working with the State Health Department about how they can help us continue to outreach those people. And there's been suggestions on the working group calls to ask the State Health Department, at one point there was a talk of can you call everybody, which would take a lot of manpower and time. And then we kind of switched to how about texting everybody or robo calls or both, because I feel strongly. Everything we're doing is great. And I think it's helping us incrementally get a few more people here or there with the signs and the flyers. I really feel like outreaching those people directly is really going to be key for us to hit our recruitment numbers, to really reach the people that have already given their blood at one point in time, I would think would be committed to this process of wanting to continue to have their blood checked again for PFAS and to better understand their exposure. So, I just can't emphasize enough that I think the State Health Department is a key player in our recruitment in getting them to help us text, call, or robo call people is going to be critically important. So, I know there's been a lot of conversations with them. And I hope they'll be able to meet those requests to help outreach those people directly.

CDR MUTTER: Yeah, I did follow up with them via e mail maybe a week ago, and I haven't heard back. So, I can reach out again. And maybe even call this time and see if I can get any more information on that. Make myself a note for that. So, with that, Frank or Marian, do you have any other, anything to add?

DR. BOVE: You all have probably seen the dashboard that listed how many people we have so far. So, we have 493 adults who were exposed, who have completed everything in the study, and 50 unexposed. So, that's, we're moving there. There are some scheduled for a questionnaire this week. And so we'll be over 500 exposed adults shortly. As for the children, 127 exposed children have at least done the questionnaire and given blood and urine. And 103 have completed the neural behavioral tests, or at least they have completed everything. So, so, that, we're moving. We have a ways to go there. And we just have one child so far who's been unexposed. When I say unexposed, I don't mean

they don't have any PFAS obviously. But they're unexposed to the drinking water. So, I think the outreach has helped. And I agree with Andrea 100%, that we have to get access to those people who are participants in the biomonitoring program. So, other than that, I don't have anything else. Marian, do you have anything?

CDR MUTTER: I'm going to assume that's a no. So, I'm going to go

DR. PAVUK: No, I don't.

CDR MUTTER: Oh, thanks, Marian. I'm going to go to Danielle, Zuha, and/or Kate, if there's anything from Abt's perspective they want to add.

DR. HUNT: Nothing to add from me. Thanks, Jamie.

QUESTIONS FROM THE AUDIENCE

CDR MUTTER: Okay, any questions on the Pease study? Okay, so that wraps up the Pease study update. Now we have questions from the audience. Pam, would you mind giving those listening directions on how to ask a question if they'd like to, please?

MS. WYTON: Sure. You can use the raised hand functionality on the Zoom call. There should be a button at probably the bottom of your screen. You can click that. It says raise hand. You can also do the keyboard shortcut of pressing alt plus the Y key. And if you're on the phone only, you can do star 9 to raise your hand.

CDR MUTTER: I'm going to pause for just a few moments to see if there's anybody that would like to ask a question in the audience. Okay, so I don't see anyone raising their hand. But I'm going to circle back around near the end of the meeting as well since these are going a little bit faster, we have a little time to play with. So, I'll ask for audience concerns after CAP concerns as well, just so we don't miss anybody if they did want to ask a question. So, we'll move on from there. And if we can do a Multi-site Study update with Meghan and/or Marian, please.

MULTI-SITE STUDY UPDATE

MS. WEEMS: I can go ahead and give that. Do you want me to give that?

DR. PAVUK: Can you, can you hear me? Go ahead.

MS. WEEMS: Good evening, everyone. We are currently undergoing an IRB amendment that we're waiting on some approval for. We have three sites that are getting ready to get started as soon as that happens, hopefully sometime in June. So, we are tidying up loose ends, getting everybody trained up and ready to get that going.

CDR MUTTER: Thank you, Meghan. Are there any questions for Meghan and Marian on the Multi-site Study?

MS. AMICO: I have a question.

CDR MUTTER: Go ahead.

MS. AMICO: Can you speak to the recruitment efforts that you're doing at your other sites, and if there's anything that we can learn from what you're doing?

MS. WEEMS: Sure. Happy to take a stab at that. We haven't begun recruiting at any of the sites yet. But we would certainly be glad to share once we do what's working, what's not working, and what we can learn from Pease.

MS. AMICO: I have another question.

DR. PAVUK: I might just add to your question, Andrea, that, you know, the sites are, all the sites for Multi-site Study are slightly different than Pease in one important factor, that the Pease exposure was at your place of work or for children at their place of, you know, daycare and stuff. So, in a sense, the other sites have it easier, that they can cover their, their really engagement and recruitment efforts, can address that whole community that was served by water system. Right? So, you can imagine if we were looking at Portsmouth water system, you wouldn't have to be, you know, kind of look only at Pease Tradeport part of your whole city. So, a lot of those communities have a little bit of an advantage. And so, for example, in New Jersey, they can go door to door. They have a small community of 5,000 people. And if all their recruitment efforts fail, they can go door to door, which is very difficult in Pease because we do not have the contact information, and it's hard to knock on the doors that you don't know.

MS. AMICO: Right. Very true. Good point. Thank you.

DR. PAVUK: So, it's very challenging from that point of view at Pease.

MS. AMICO: Okay, great. I have another question. I've heard at some of the sites that you're going to be tying in some COVID related study. And I didn't know if you could touch upon that. I

think Michigan, I heard they are testing for COVID antibodies potentially in the participants. So, I was curious if you could share a little bit more information with us about that and what you're looking for.

DR. PAVUK: Well, so that would be the part, this is not part of the core protocol. If you remember during the COVID changes, it would have necessitated another round of OMB approvals, it we have made that part of like a research question. And so similarly as in Pease was difficult to, you know, you're adding additional research questions, potentially research analytes, we have to change the questionnaire, it's a whole new area. So, some of the site investigators are considering, we haven't seen that proposal yet, if the money, let me backtrack a little bit, so CDC is providing some funding for investigator initiated parts that are outside of core protocol. And CDC/ATSDR has provided \$250,000 for those last year. All right? So, this is all depending on the additional funding that we get from Congress. And if there are additional money, we may fund the investigators at different sites for some additional work. This is more complicated than it seems, because they have proposed some of their activities in the original proposals. It was part of the notice of funding opportunity to go kind of beyond core protocol. So, last year, the sites that are funded on the efforts that they proposed originally. So, it had to be in the scope of what they originally proposed. So, this is the way it goes. So, as you mentioned, some are considering how, you know, to put, you know, some of the COVID antibody testing in. And we have discussed with some of the sites, but we haven't seen any of their proposals yet. So, at this point, we don't know whether this will end up being part, and also since this has to stay within the scope of their proposed before, we don't know like what will be the guidance on what we can approve, you know, as an addition in their investigator proposed activities. So, we don't know yet.

MS. AMICO: When do you anticipate data collection will happen at the Multi-site studies?

DR. PAVUK: Well, as Meghan suggested, some sites are planning a June window. We have three sites that thought that that would be, that would be plausible maybe for them. They're still waiting for CDC IRB approval of our amendment that we have submitted end of March, early April. So, it has taken them a little bit longer than usually. So, most of the sites are kind of gearing for August, August, September window, because in many places, the situation has not been very good COVID wise. So, they have, they have, we're a little bit more cautious in trying

to get out. So, there's different levels of, you know, some sites, you know, are just, at this point, starting to get their office and their staff on. Some people already have their staff and office on. So, as Meghan mentioned, we have been providing not only the trainings, but supplies. As you know, there's a number of supplies that goes into it in collection, biological samples and other things. So, number of supplies are being provided by CDC, especially for whole blood collection, and pre screened for, you know, heavy metal and trace testing potentially. So, that was kind of a big change due to OMB for a Multi-site. And then you have to sort out the contracts with LabCorps, you know, for each site. And then, you know, there's parts of materials and supplies that each site investigators have to, have to do. So, we've been coordinating between Abt, us, DLS, and site investigators, that's been doing over last two months. And also, you know, frame them on the details and other things. So, we are providing so that it's all consistent, CDC providing centrally labels for each site so that we have sited the labeling as we had in Pease so that there's a good consistency between like how everybody's doing that. So, this goes from CDC biorepository. So, we have completed that. I think, Meghan, correct me, I think we have those printed, or they're close to being printed. So, some of the sites will be receiving those in the coming weeks. So, we're trying to be prepared. We still don't have the go to. But we want to have all things, you know, in place. And, you know, as you go to get vials and supplies, there are, you know, a number, you know, there's shortages of vials and stuff, so also some of the materials have expiration dates that are only like six months out. So, we'll be doing that on a rolling basis. Everybody will get just 150 samples. Luckily, you know, the DLS, NCEH logistic department is used to handle, you know, a number of 10, 20 different projects at the same time, so they have that capacity.

CDR MUTTER: Thanks, Marian. Any other questions on the Multi-site study? Okay, so we'll move on with the Pease health consultation update. Gary, would you mind giving that for us, please?

PEASE HEALTH CONSULTATION UPDATE

CAPT PERLMAN: Yeah, I'd be glad to. Just a brief background. I just want to, for those who may not be aware of it, so at the request of the U.S. Air Force, ATSDR evaluated drinking water contamination to PFAS that may have impacted private residential wells within one mile of the site, they're particularly focused on Newington and Greenland. The U.S. Air Force coordinated the

sampling and analysis of water from these wells in June of 2014 through June of 2020. And the source of the PFAS is likely to come from aqueous film forming foam. The public so, this document was released for public comment on April 30th of 2020. The public comment period ended in July 30th, 2020. We've received about 65 public comments. The public comments have been organized by major headings. And we've addressed all the comments. The document is currently in internal review for scientific review and hope to have that available shortly. We don't have an expected date, but hopefully fairly soon. And I'd entertain any questions if you have any. Thank you.

CDR MUTTER: Thank you, Gary. Any questions on the health consultation? Andrea, go ahead.

MS. AMICO: I just have more of a general question. So, now that ATSDR has released their tox profile, do you anticipate, it's my understanding ATSDR does a lot of health consultations. That's a lot of the work that you all do. So, do you anticipate this tox profile is somehow going to change or amend any of your health consultations that you've done up until this point, or will it change how you're doing them moving forward, or how you're, you know, kind of assessing communities?

CAPT PERLMAN: Thank you for the question, Andrea. This is Gary. So, the finalized version of the tox profile has what's known as minimum risk levels for four PFAS compounds. Those levels have not changed. The only change that will occur is documents that use the MRLs, won't refer to them as provisional or draft, just call them MRLs, because they've now been finalized. We don't expect any changes in our approaches. But as Chris Reh indicated, maybe within a year we'll have additional MRLs possibly available to look at. The current one we have, four MRLs that we use. And those have now been finalized. Thank you.

MS. AMICO: And so what happens in a year from now if something does change and you've done health consultations in communities that have been impacted by PFAS? Do you then go back and look again, like kind of look at that community from a different lens now that you have more information? Or once this consultation is finalized, as you continue to evolve, you know, and draft new documents and maybe make new MRLs, you know, what can communities expect if, you know, if they're already kind of completed the consultation, but new information comes out, how would ATSDR handle that situation?

CAPT PERLMAN: Oh, yeah, thank you. So, in general, when we do consultations, one of the recommendations we list is that we'll be glad to view additional data that becomes available to us.

So, if new data is available, including additional MRLs, it's certainly possible to do a site review and update of the consult and evaluate the new contaminants with new MRLs associated with them.

MS. AMICO: And would a community have to request that ATSDR do that, or would ATSDR automatically go back to that community?

CAPT PERLMAN: I think in general, I'm not certain, I think in this case we would probably be proactive and look ahead to see what, what's coming down, and be sure that we're fully, you know, using the best science to evaluate the exposures that have occurred. There have been many sites throughout the country. And I'm not sure, I think we're going to use a systematic approach. And since it's about a year or so out, as Chris indicated, we'll try and develop a policy and plan to move forward for that. So, I think it may be a proactive approach may be the best way, you know, sites that we know of had elevated levels, had conclusions and recommendations, we would consider reevaluating those if new MRLs are listed.

DR. REH: Yeah, he's, Gary's spot on, you know, we'll, as we are starting to develop the MRLs, well, there's two parts. There's a good possibility that the current MRLs will be lowered because data, you know, epidemiologic studies and health effect studies and toxicologic studies are, you know, data is being published in the scientific literature on a monthly basis. And so, so as part of this update, we'll reevaluate the ones that we have. And then we'll see if there's other PFAS compounds where there's enough information to develop an MRL. And then as we get further down that process, we'll start looking at the old reports, so to speak, and seeing what the impact of the MRLs will be on that, not from a standpoint that it would change our process, but from a standpoint as to how much work are we, you know, what are the resources we're going to need to make the, make any updates that may be necessitated.

MS. AMICO: Thank you.

CDR MUTTER: Any other questions for Gary before we move on?

DR. REH: I think Joe has one.

CDR MUTTER: Joe, you might have to go off mute. There we go.

MR. RYAN: My question is, over time, is it expected that the concentration of PFAS chemicals beneath, you know, the Tradeport, will go down? Is there a trend on the PFAS, under the Tradeport? Is it going down?

CAPT PERLMAN: Yeah, thank you, Joe, for the question. This is Gary. So, when we first released this public health consult for public comment, one of their questions was, look at more recent data to see if there's any additional concerns we should be aware of. So, we then expanded it, originally the data was from 2014 to 2017. But then we added three additional years of data, which is more current. Based on those three additional new data, there wasn't any changes in the concentrations, in the conclusions, and the document remained the same. So, I'm not sure we can determine the environmental fate of these compounds. But in the last three years, the levels have not increased in these wells that we have been provided data from the Air Force.

MR. RYAN: Is it expected that over time they will go down, since no PFAS chemicals are going into the aquifer?

CAPT PERLMAN: I think that's the general consensus, you know, looking at environmental fate, how the sources, you know, is going to eventually start to dissipate. I don't think we have a full picture, you know, they're pretty far away, it's a mile away from the site is where these private wells are. So, it could take a while for that to be noticed. One thing I just wanted to indicate is that the Pease International Tradeport public water system on the Tradeport alone had installed with the Air Force to support insistence a treatment system. That treatment system is now online and is effectively removing the PFAS contaminant, so that's a good thing. It's essentially large granular activated carbon filters. I think two of them in series, about a hundred or a million pounds each, really large things. So, it is effectively removing the PFAS contaminants. But, again, just to get back to your question, again, for the past three years, the data have not increased. And I don't think we have a good picture as to how long it takes for us to get decreased.

MR. RYAN: Okay, thank you.

EXPOSURE ASSESSMENT UPDATE

CDR MUTTER: Thank you, Gary. Any other questions before we move on to Exposure Assessment? Okay, the next item on agenda is the Exposure Assessment. I got a few updates from Brad Goodwin. He just wanted me to mention that the individual result letters were sent out for, to Alaska participants. And the community level results are now on the website. And in addition, last week, individual result letters were sent out to the Colorado

participants. Are there any other questions for Exposure Assessment?

MS. AMICO: Jamie, do you know when the Exposure Assessment is supposed to complete all the sites, and then is there a timeline of when the exclusion will happen, and then when like the general community can expect comprehensive report of what was found collectively at all these sites?

CDR MUTTER: I'm going to ask Chris or Lori, who might know a little bit more on that, to answer that if they can. If not, I can get back to you with that information.

DR. REH: So, yeah. So, so, the last bit of data that we're collecting is some of the environmental in house dust sampling data at the New York site. And then that will be the last bit of sampling. Of course our lab has been delayed with analysis because of COVID. It's hard to operate a lab in a socially distanced environment. But that's the last piece of data collection. The and if you remember, Andrea, there were three steps. There were the report to, there were actually four. They were to report to people their individual results, to provide the summary report, summary data for each site, which is now on our website. And then site based in depth reports. And then one overall report aggregating all the data and findings and everything from the Exposure Assessment. So, we're, the first site specific in depth report, which is for Westfield, because they were the first one off the bat. That one is in peer review right now. And that will be used as the template for the other report so that as we start doing more of these site reports, some of the items that normally could hold up a peer review like formatting and things like that will have it settled, taken care of. And so we're hoping our review processes are going to go much quicker. But later this year, we should start seeing the Westfield report come out. And then after that, sequentially some of the other ones. And then I'd have to get back to you on when we think the date will be for, you know, are we talking a year, two years, for the big final report. Lori, do you have anything else?

MS. LAUNI: No, I think you covered it pretty well there, Chris. It's going to, it's going to take a little while longer to have a full summary and really can't, you know, give an accurate date at this time.

DR. REH: Yeah. And at this stage, we don't even have all the data yet. So

MS. LAUNI: Yeah.

MS. AMICO: And I guess to follow up, so will, what, how will the Exposure Assessment data inform your work moving forward? Will they be considered when you look at potentially doing more tox profiles? Will you think about, will you use this data in any way when you think about it? Or is it, are you already thinking about how this could lead to additional studies, or, you know, is there next steps beyond the Exposure Assessment that you guys are thinking about?

DR. REH: Yeah, absolutely. So, you know, we share the paper on how we at ATSDR see research priorities within the PFAS realm. And we've already started having discussions at higher levels about what else needs to be done. So, definitely this information will inform next steps. It will inform the next version of the tox profile. Maybe not as much as you would think, because a lot of that information is human health information and toxicologic information, and the Exposure Assessments are bigger than that. But, you know, some of the other questions that it's going to lead to is what are these, what would happen if we did a similar study where the exposures were not from current or former military basis? If we did a similar protocol in communities that, you know, where the source of PFAS is from somewhere else. So, it's a building block, no doubt.

CAP CONCERNS

CDR MUTTER: Thank you. Any further questions on exposure assessment? Okay, let's move forward to CAP concerns. Anything that CAP wants to raise before we adjourn? Okay, I'm not hearing anything.

QUESTIONS FROM THE AUDIENCE

CDR MUTTER: So, I want to circle once more back to the audience to make sure we don't have any audience questions. So, I'm just going to give a second for any audience. Oh, I see Doris, yeah, I see Doris Brock. Is she able to speak now, Pam?

MS. WYTON: Yes, Doris, you can unmute yourself now.

CDR MUTTER: Thank you. Doris, please go ahead.

MS. BROCK: Can you hear me?

CDR MUTTER: We can.

MS. BROCK: Okay, good. This is actually a question about the outreach program. If you don't reach your outreach goals, would

the community that worked or played at Pease development, would you be reaching out to the Air National Guard as I'm concerned that they've been exposed for over six decades?

CDR MUTTER: Frank, do you want to take that?

DR. BOVE: Sure. We're focusing, the study is focusing on those who are exposed to the Pease drinking water. And we're trying to limit it to those people who did not have any occupational or firefighting exposures, because that adds complexity to the exposure assessment, makes it harder to do the study. And actually will probably make the study less effective. So, if the person was at Pease, and more recently at Pease as of 1993 onward, and had drank the water, of course, at Pease, and does not have occupational exposures to PFAS, then they're So, that's the target group. We've been focusing our attention on those who participated in the biomonitoring because then we'd have two measures of PFAS in the blood one closer in time to when the exposures occurred. But we're opening up to anyone who was at Pease from 1993, any time from 1993 onward, and does not have occupational exposures.

MS. BROCK: Thank you, Frank.

CDR MUTTER: Doris, that answered your question?

MS. BROCK: Yes, you did. Thank you.

WRAP-UP/ADJOURN

CDR MUTTER: Okay, no problem. Any other audience members that would like to ask a question? Okay, one last chance for anybody. Then I'm going to wrap it up. All right, guys, thank you, appreciate it. You all have a great night and a great week and we'll talk soon.