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10	Wednesday, November 8, 2023, 5:00 p.m.
9	120 West Dwight Street, Oscoda, Michigan 48750
8	Oscoda United Methodist Church
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4	ADVISORY BOARD (RAB) MEETING
3	WURTSMITH RESTORATION
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1	RAB CO-CHAIRS:	Mark Henry Steven Willia Dim Forme
2		Steven Willis, Air Force
3	Local Government	Kalan Briggs, EGLE
4	Stakeholder RAB Members Present:	Denise Bryan, Local Health Department (virtual)
5		Tim Cummings, Oscoda Township Chelsea Gary, MDHHS
б		Amy Handley, EGLE (virtual) Michael Munson, OWAA
7		Eric Strayer, AuSable Township Jessica Stuntebeck, USDA Forest Service
8		(virtual)
9	Community RAB Members Present:	Dave Carmona William Gaines
10		Kyle Jones (virtual) Arnie Leriche (virtual)
11		Scott Lingo Greg Schulz
12		Daniel Stock (virtual) Josh Sutton
13		Rex Vaughn David Winn
14		Cathy Wusterbarth
15	Also Present:	Amy Rauser Jessie Howard
16		Celeste Holtz Craig Johnson (virtual)
17		Megan Barry
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Oscoda, Michigan

Wednesday, November 8, 2023 - 4:57 p.m.

3 MS. JESSIE HOWARD: Hello, everyone, and welcome 4 to the November 2023 Restoration Advisory Board Public 5 Meeting. I'm Jessie Howard, your facilitator. This meeting is being recorded and live streamed by Irving Entertainment 6 7 and also documented by our certified court reporter, Marcy. 8 She is joining us virtually this evening. So, again, that I 9 will ask that everyone please be sure to state your first 10 and last name clearly prior to addressing the RAB so she 11 gets a clear record. Also, just a reminder to the RAB 12 members with the microphones, please speak directly into the 13 round piece and get as close as you can to the mic.

14 Now I would like to invite our co-chairs to give15 their opening remarks. Mr. Willis?

16 MR. STEVEN WILLIS: Good evening. Good evening, 17 everyone, and welcome. We've got a good turnout considering 18 the weather and kind of a dreary, rainy afternoon/evening. 19 We've got a lot to cover tonight. We've got three 20 presentations, updates on the -- the traditional RI/IRA that 21 we talk about pretty much at every RAB. We've also got a 22 vapor intrusion update for the RI that's being done for VI, 23 and we've also got a presentation. The presenter is going 24 to actually present virtually, but it's a presentation on our non-AFFF evaluation for other sources other than the 25



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1	foam. That's all I've got.
2	MR. MARK HENRY: I would like to also welcome
3	everybody here. Thank you for attending. This is going to
4	be kind of a continuation of some of the technical
5	discussions that we had yesterday and I thought that was a
6	very productive meeting yesterday afternoon. So I'm hoping
7	to learn a lot and plan to ask a few questions. I encourage
8	you to do so also. Thank you.
9	MS. JESSIE HOWARD: Okay. Thank you both. Next I
10	will take attendance of the RAB members to ensure that we
11	have a quorum. Our RAB Coordinator in the back, Amy, will
12	respond for anybody that's joining us virtually. Steven
13	Willis with the US Air Force?
14	MR. STEVEN WILLIS: Present.
15	MS. JESSIE HOWARD: Tim Cummings, Oscoda Township?
16	MR. TIM CUMMINGS: Here.
17	MS. JESSIE HOWARD: Eric Strayer, AuSable
18	Township?
19	MR. ERIC STRAYER: Present.
20	MS. JESSIE HOWARD: I believe we have Kalan Briggs
21	sitting in for Amy Handley with EGLE, but Amy's with us
22	virtually as well, I believe.
23	MR. KALAN BRIGGS: That's correct. Present.
24	MS. JESSIE HOWARD: Michael Munson with OWAA?
25	MR. MICHAEL MUNSON: Here.



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1	MS. JESSIE HOWARD: Denise Bryan with District
2	Health Number 2?
3	MS. DENISE BRYAN: (No verbal response)
4	MS. JESSIE HOWARD: Chelsea Gary with the State
5	Department of Public Health?
б	MS. CHELSEA GARY: Here.
7	MS. JESSIE HOWARD: And Jessica Stuntebeck with
8	the USDA Forest Service? Is she with us virtually?
9	MS. AMY RAUSER: Not yet.
10	MS. JESSIE HOWARD: Okay. For the commu
11	MS. JESSICA STUNTEBECK: Yes, I am here virtually.
12	MS. JESSIE HOWARD: Okay. Mark Henry?
13	MR. MARK HENRY: Present.
14	MS. JESSIE HOWARD: Dave Carmona?
15	MR. DAVE CARMONA: Present.
16	MS. JESSIE HOWARD: William Gaines?
17	MR. WILLIAM GAINES: Here.
18	MS. JESSIE HOWARD: Kyle Jones?
19	MR. KYLE JONES: (No verbal response)
20	MS. JESSIE HOWARD: Arnie Leriche?
21	MR. ARNIE LERICHE: Present.
22	MS. JESSIE HOWARD: Scott Lingo?
23	MR. SCOTT LINGO: Present.
24	MS. JESSIE HOWARD: Greg Schulz?
25	MR. GREG SCHULZ: Present.



1	MS. JESSIE HOWARD: Daniel Stock?
2	MR. DANIEL STOCK: (No verbal response)
3	MS. JESSIE HOWARD: Josh Sutton?
4	MR. JOSH SUTTON: Present.
5	MS. JESSIE HOWARD: Rex Vaughn?
б	MR. REX VAUGHN: Here.
7	MS. JESSIE HOWARD: David Winn?
8	MR. DAVID WINN: Present.
9	MS. JESSIE HOWARD: And Cathy Wusterbarth?
10	MS. CATHY WUSTERBARTH: Here.
11	MS. JESSIE HOWARD: Next I will quickly review
12	tonight's agenda. Let's see. After our welcome and
13	introductions we will have the RAB member updates followed
14	by the RAB business update, then we will get the PFAS, RI
15	and IRA update followed by the vapor intrusion RI update,
16	then the PFAS sources other than AFFF presentation, followed
17	by RAB member questions, and then our public comment portion
18	of tonight's evening and then the conclusion. We do ask
19	that all members of the community that are with us tonight
20	please hold their comments until that public comment portion
21	of tonight's agenda.
22	Next, do we have any state or local government
23	officials with us tonight either in person or virtually that
24	would like to introduce themselves?
25	MS. MEGAN BARRY: Megan Barry, Bay City District



Office, RRD. 1 2 MS. JESSIE HOWARD: Thank you. Anybody else? 3 UNIDENTIFIED SPEAKER: For the court reporter. MS. MEGAN BARRY: Megan Barry, Bay City District 4 5 Office, RRD. 6 MS. JESSIE HOWARD: Okay. Now I would like to 7 move on to the RAB member updates. Mr. Willis, do you have 8 an update for the Air Force for us? 9 MR. STEVEN WILLIS: If we could flip -- flip to 10 the next slide, please? There we go. So, excuse me, since 11 the last RAB meeting we did have a in-person -- it looks 12 like the date's wrong there -- we did have an in-person 13 technical session. It was vesterday as Mark Henry 14 indicated. We did discuss the latest data that we collected 15 from the RI, we had updated plume maps and went through 16 those kind of working our way from the northeast portion of 17 the base kind of down south and to the west and basically 18 discussed each of the areas where the data has changed, what 19 -- what looks different about the plumes and so forth. 20 At the last RAB meeting I did indicate that the 21 Air Force was going to be doing a critical process analysis 22 of the four sites that both EGLE and the community have 23 identified as locations needing IRA's. The team did come up 24 and they met with Mark Henry and Bob Delaney and they 25 visited all four sites, talked about various histories of



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1	the sites, some of the issues and challenges associated with
2	each of them. The team met two sequential weeks after that.
3	We did have EGLE representatives come down and participate
4	in those meetings and basically went through each of the
5	four sites, looked at the available information, looked at
6	the challenges and what kind of interim remedial actions we
7	could take to keep PFAS from moving off the former
8	installation boundaries. That team is still compiling all
9	the information, their recommendations.
10	The recommendations will include both what what
11	type of an IRA would be appropriate for the site as well as
12	identifying design investigation, data requirements. So
13	before we could complete a design and build the system,
14	there will be some data gaps that need to be addressed and
15	then they'll also recommend data gaps for the feasibility
16	study to support selection of final remedies and design of
17	those. So they'll have three separate recommendations. The
18	plan at this point is that that team is going to brief their
19	recommendations to the Air Force leadership next week, the
20	week after Thanksgiving they'll brief the EGLE's management,
21	and then the week after that which is the first week of
22	December, that team will be presenting their recommendations
23	to the community and RAB.

24 UNIDENTIFIED SPEAKER: Steve, do you know where 25 that meeting might be held?



1 MR. STEVEN WILLIS: Yeah. At this point I 2 understand that it's going to be a virtual meeting. 3 MS. JESSIE HOWARD: Mr. Henry, did you have an 4 update for us? 5 MR. MARK HENRY: Only a couple of things of note. 6 First of all, the RAB members provided comments to the Alert 7 Aircraft Area proposed for remedial action. So we had a 8 couple of meetings to discuss those. We put down our 9 comments and submitted them. And most recently as Steve 10 indicated, I participated along with Mr. Bob Delaney in the 11 Critical Process Analysis meetings which lasted about three 12 days. We went through a lot of good ideas. We talked about 13 historical data as well as current data and did a little 14 brainstorming and they took the ideas from that meeting and 15 those were discussed between the state and the Air Force 16 down in San Antonio a couple of times over the last few 17 weeks. But I think that's about it. 18 MS. JESSIE HOWARD: Okay. Next we do have an 19 update from Amy Handley with EGLE and she is joining us 20 virtually. Amy, when you're ready? 21 MS. AMY HANDLEY: Yes. Good evening, everyone. 22 Can you hear me? All righty. My apologies, everyone, for 23 not being able to attend in person tonight. I had every

24 intention to be there, but when I woke up this morning I was 25 feeling much worse than what I was yesterday for those that



saw me at the technical session. 1 I was a recluse in the 2 back corner with a mask on trying to keep my -- my germs to 3 myself. So apologies. Hopefully I will be able to see you 4 all at the next RAB meeting. Okay. We can go ahead and 5 advance to the next slide, please. 6 All right. So some of the recent things that 7 we've been up to, at least within the Superfund section of 8 EGLE, myself and a few of our other technical staff have 9 been meeting with Mark and Bob over -- we saw them the last -- I think it was a couple weeks ago now, and then 10 11 previously before that a few weeks prior to discuss some 12 different technical concerns that they have been having just 13 to hash out kind of where we're at with looking at things 14 and what their concerns are. They definitely seemed like 15 very positive meetings and I know that our team always left feeling like we had a better understanding of -- of what we 16 17 should be focusing on and looking at and what the 18 community's concerns are. So that's been great. We did 19 have a BCT meeting in September, and those meeting minutes 20 are going to be posted to the Wurtsmith MPART site as soon 21 as we receive them. And I did give an update on that 22 meeting at the NOW meeting, so hopefully we'll be able to 23 share that information with everybody again in the future. 24 We have been having ongoing meetings with the Air Force to 25 discuss the fieldwork progress that's been happening out at



Wurtsmith over the last couple months. We usually spend 1 2 time looking over what additional data that has come in and 3 what our next steps are moving forward. It's been a really good opportunity for all of us to be able to talk about what 4 5 -- what we need to focus on next. As Steve had mentioned, 6 we participated in that Critical Process Analysis. Myself, 7 Nick Shorkey and Matt Baltusis were there in person for this 8 in San Antonio. I thought it was a great opportunity for us 9 and I really think everyone's going to be very impressed 10 with what this group was able to put together when they 11 provide those briefing meetings to us in a few weeks. We've 12 also been reviewing a lot of documents recently. The PFAS 13 RI QAPP Addendum, we provided backcheck comments to the Air 14 Force and we also provided backcheck comments on the 15 Aircraft Alert Area IRA proposed plan. And then we also 16 reviewed the BECOS QAPP. We are just waiting for responses 17 back from that as well. And we're in the process of 18 reviewing the 2021 remedial action operation LTM report and 19 those comments are going to be provided in the next week or 20 two. We can move to the next slide.

These are just some upcoming activities that we're -- we're going to be doing. We have an SPP meeting planned actually for tomorrow in Lansing. Fingers crossed that I'll be better enough to be able to make that. We are planning to have a meeting between EGLE staff and the Air Force to



discuss the approach for the east side of Van Etten Lake, 1 2 the investigation, relating to the signature analysis and a 3 few other items over there. That is currently planned for 4 November 20th. We have been reviewing the data that's been 5 coming in from the ongoing RI work this field season in an attempt to kind of fasttrack any stepouts or additional 6 7 monitoring wells that might be needed onsite. And then we 8 have a couple of additional documents coming up over the 9 next few months for our review and those include the 10 Aircraft Alert Area, OAPP, the Record of Decision, and the 11 work plan. We're expecting to get those in November, 12 January and February respectively. AECOM has been onsite 13 for us for ongoing oversight and for collecting QA samples. 14 We were able to do split samples with the Air Force for the 15 fish samples as part of their biota study. The labs were 16 able to kind of homogenize those samples and split them off 17 and send them to the lab that -- that we're using. So that 18 was really great that we were able to -- to work something 19 out for that. And then just the Critical Process Analysis 20 report review and then the meetings that are going to come 21 with that. And that was it for me. Did anyone have any 22 questions?

MS. JESSIE HOWARD: No, Amy. It looks like we're
all -- thank you so much.

25

MS. AMY HANDLEY: Yep. Thank you.



1	MS. JESSIE HOWARD: All right. At this time I
2	would like to give the floor to the remaining RAB members
3	for their updates. I'm going to do it a little bit
4	differently this time. If we can start with Tim over here
5	and then we'll kind of move around the table that way?
б	MR. TIM CUMMINGS: Sure. All right. This is Tim
7	Cummings from Oscoda Township. And I understand that there
8	was a meeting between yourself, Steve, and and the
9	Cherokee contractors where you discussed the Mission Street
10	sliplining project.
11	UNIDENTIFIED SPEAKER: We we can barely hear
12	you.
13	MR. TIM CUMMINGS: Then this isn't on? I don't
14	know. Is that better? There we go. I'll stick it I'll
15	stick it in my mouth next time. All right. So as I was
16	saying, Tim Cummings from Township Oscoda Township. So I
17	understand that there was a meeting between yourself, Steve,
18	and the Cherokee contractors and you discussed the the
19	Mission Street sliplining project which will be completed
20	this Thursday; is that correct?
21	MR. STEVEN WILLIS: Yes.
22	MR. TIM CUMMINGS: That's good. Okay. Good.
23	That's my update there. And there was also a discussion at
24	the meeting that you had that took place regarding a
25	possible agreement for maintenance on the Skeel Avenue storm



1 sewer possibly in the future and that's all I know. 2 MR. STEVEN WILLIS: Yeah. That's something we're 3 looking into. 4 MR. TIM CUMMINGS: That's very good. Thank you. 5 That's all I have. 6 MR. MICHAEL MUNSON: Okay. My name is Mike Munson 7 and I'm with OWAA and I'll just basically highlight some 8 wrap-up projects that we had in 2023. Airport had a very, 9 very busy year. The Perimeter Road resurfacing project is complete. So that along with the Pride Road we did last 10 11 year makes that road very nice to travel on. That was a big 12 problem for some of the businesses onsite transporting 13 stuff. We have -- we're in the process of finishing up the 14 initial striping on the new taxiway. I reported last month 15 that the rebuild of Alpha, Bravo and Charlie taxiway was 16 complete, so we're putting the initial stripings down and 17 we'll do the remainder when the weather gets warmer. We are 18 working on the make ready of the maintenance hangar that 19 stores the airport equipment for refurbishing of the heating 20 plant and the layout of some interior walls. Our new 21 entrance gate on the east side of the airport is complete. 22 The November auction will be held to clean out some of the 23 unused and obsolete equipment that the airport has collected 24 over the years. The build -- build process on the aircraft 25 -- large aircraft runup shelter is progressing. I share if



1	you drive by the airport you'll be able to see the skeletons
2	that's there. Some 2024 proposed projects that we'll be
3	working on in 2024, we will be rehabili re we'll be
4	redoing the decommissioned taxiways that were uncovered and
5	we'll return those to service. And we put the plans for
б	the airport terminal rebuild will be started at that time.
7	I'll be available after the after the meeting if you have
8	any airport questions. Thank you.
9	MS. JESSIE HOWARD: Josh, did you have an update
10	for us?
11	MR. JOSHUA SUTTON: I don't have any updates.
12	MR. ERIC STRAYER: Eric Strayer, AuSable Township.
13	I have no updates at this time.
14	MR. WILLIAM GAINES: Bill Gaines, no updates.
15	MR. SCOTT LINGO: Scott Lingo, no updates.
16	MR. GREG SCHULZ: Greg Schulz, no updates.
17	MS. CHELSEA GARY: I have a few updates. Hi. My
18	name is Chelsea Gary and I'm a new toxicologist with MDHHS.
19	I'm taking over for Puneet as he has moved on from MDHHS.
20	And I just have a few updates today. So, first, with the
21	2023 round four water re-sampling, just wanted to give an
22	update on that. We have sampled about 200 addresses in the
23	past few months and sampling is close to completion. We've
24	slowly been getting results back and results letters have
25	been starting to go out. On a different note, an ATSDR



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1	certified letter health consultation was sent to the Air
2	Force related to the vapor intrusion investigation. The LHC
3	is published which can be found on the ATSDR website. MDHHS
4	has recommended seasonal sub-slab soil gas sampling and
5	indoor air sampling at the buildings indicated at the former
6	Wurtsmith Air Force Base as there is not enough info at this
7	time to make a public health determination for occupants at
8	those in those buildings. And, lastly, an update on the
9	Oscoda Area Exposure Assessment. Clinics are ongoing and
10	scheduling is still taking place and as of November 2nd of
11	this year, 652 participants have enrolled, 402 adults and
12	less than five adolescents have completed appointments. All
13	info is on the DEH bio website under the Oscoda Area
14	Exposure Assessment Project and PFAS results letters started
15	to go out last week for that. So those are the updates that
16	I have.
17	MR. REX VAUGHN: Rex Vaughn, community RAB. I
18	don't have any updates.
19	MR. DAVID WINN: Dave Winn, no updates at this
20	time.
21	MS. CATHY WUSTERBARTH: Cathy Wusterbarth, I have
22	I don't know if they're updates or questions, but I'd
23	like to say them now before we get into the agenda.
24	MS. JESSIE HOWARD: Okay.
25	MS. CATHY WUSTERBARTH: All right. So we had



1	mentioned Amy had mentioned the BCT minutes for that BCT
2	meeting and that meeting was in September and it sounds like
3	they're still not available. I'm not sure if we can address
4	in this meeting why there's such a lag for these minutes for
5	us. We'd really like to see those. We're coming on a
б	couple months here so would like to see those happen
7	quicker. The action item list, the last one that I see
8	given to us was last August. I'm not sure that is the last
9	time they were provided.
10	MR. STEVEN WILLIS: I'll talk about action items,
11	an update in a minute.
12	MS. CATHY WUSTERBARTH: Okay. So they were
13	yeah, it was last August is the last one I see. I did make
14	a request to have those posted on the RAB website. I still
15	don't see that and I am uncertain if they were printed off
16	for the audience here today again. That was something that
17	I had requested in a previous meeting, but would like to see
18	those action items available to people that are in the
19	audience. And then I'd like to thank Chelsea for the update
20	on the Oscoda Area Exposure Assessment and us getting our
21	results now so that's very good news. Thanks.
22	MS. JESSIE HOWARD: Thank you.
23	MR. DAVE CARMONA: Dave Carmona, nothing.
24	MS. JESSIE HOWARD: I do believe that we have an
25	update from Jessica Stuntebeck from the USDA Forest Service.



1	She's with us virtually. Jessica, whenever you're ready.
2	MS. JESSICA STUNTEBECK: Hi, everybody. This is
3	Jessica. The only update I have from the Forest Service is
4	late this summer the Air Force requested that the Forest
5	Service put some institutional controls on some of our
6	property, Clark's Marsh area, and just giving you an update
7	that we do have that completed and we are just working on
8	our formal correspondence and letter to get back to you
9	folks with the language that we put in there, and then the
10	link to the the public facing website. So just so you
11	know those institutional controls are now in place. That's
12	all I have.
13	MS. JESSIE HOWARD: Thank you. Yes, Mr. Henry?
14	MR. MARK HENRY: I have a question of Jessica.
15	What sort of institutional controls were implemented?
16	MS. JESSICA STUNTEBECK: We have a database that
17	keeps track of our land records. It's similar to how a
18	county keeps track of, like, deeds and deed restrictions,
19	but the federal government cannot do deed restrictions on
20	our land. So we have this mechanism of of doing of
21	keeping track of all of our rights and uses on the land that
22	we own and manage so that we can protect the public when we
23	do various activities.
24	MR. STEVEN WILLIS: The restrictions specifically
25	were on groundwater use and residential use in Clark's



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1	Marsh.
2	MS. JESSICA STUNTEBECK: Correct; yes.
3	MS. JESSIE HOWARD: Okay. Next Mr. Willis will
4	give us the RAB business update and review those action
5	items.
6	MR. STEVEN WILLIS: If you could advance it, I
7	think it's two more slides?
8	MS. JESSIE HOWARD: Oh.
9	MR. STEVEN WILLIS: Whoops.
10	MS. JESSIE HOWARD: Back one.
11	MR. STEVEN WILLIS: There you go. Yeah. So as
12	Cathy indicated, I was supposed to distribute the RAB action
13	items. We had an action item meeting specifically to go
14	through the action all of the action items because we
15	typically don't have enough time in this meeting. So we did
16	have that on the 12th of September. We updated the action
17	items based on that discussion. Unfortunately, we didn't
18	close anything based on that meeting. We had some very
19	productive discussions, but didn't close anything. But it
20	sounds like I didn't get those updated action items
21	distributed to everyone, so I'll get those out. In looking
22	through them prior to the meeting today, we actually have
23	closed one which I don't have indicated on the slide here.
24	Action item 129, Arnie Leriche had asked for a recent
25	example of a critical process analysis report that the Air



1	Force had done for another site and so that report was
2	provided to the RAB members. And, Arnie, I think you had a
3	question or potentially additional action item related to
4	that. You want to go ahead and bring that up now?
5	MR. ARNIE LERICHE: Can you hear me?
б	MR. STEVEN WILLIS: Yes.
7	MR. ARNIE LERICHE: Okay. Yesterday and I'd
8	like to add as an AI is there was a particular reference in
9	that CPA report that's very important to the hydrologic
10	analyses that has gone on in the past at these sites and
11	we'd like to get a copy of it and I've not been able to find
12	one on the AAR or on the internet. And it was done by the
13	firm Burns & McDonnell on environmental sequence
14	stratigraphy.
15	MR. STEVEN WILLIS: Okay. We'll we'll take
16	that as an action item and and I'll look into whether
17	that's a report's available for distribution.
18	MR. ARNIE LERICHE: Thank you.
19	MR. STEVEN WILLIS: And then I've got on here a
20	proposed follow on RA RAB action item meeting for the
21	6th of December. At this point it's proposed. Mark and I
22	have not had an opportunity to talk about that date. But
23	the general feedback from the action item meeting I had with
24	the broader audience was to have it about that about a
25	month after the RAB meeting. That's all I've got.



1	MR. DAVID WINN: Steve, I have a question.
2	MR. STEVEN WILLIS: Yes, sir.
3	MR. DAVID WINN: I'd like to get an action item
4	added to the action item list. We we talked about last -
5	- in the last RAB performance data for the FTO-2 site.
6	MR. STEVEN WILLIS: Uh-huh.
7	MR. DAVID WINN: We still haven't seen it. I'd
8	like to get that added to the action item list for so
9	it's included with the next meeting.
10	MR. STEVEN WILLIS: Okay. Yep. And that's
11	I've already talked with the contractor and they're on tap
12	to put put together a presentation for the February RAB
13	meeting.
14	MR. DAVID WINN: Okay. But can we get it put on
15	the action item list?
16	MR. STEVEN WILLIS: Sure.
17	MR. DAVID WINN: Because I don't want I don't
18	want it to fall off, please. Thank you.
19	MS. CATHY WUSTERBARTH: This is Cathy. I have a
20	question for you, too, on action items. And I think it was
21	something that Mark had mentioned yesterday in the technical
22	session about the organizational chart or chain of command
23	for this RAB and getting that. And I don't think that's on
24	the action item list, but I'd like to see that added.
25	MR. STEVEN WILLIS: Okay. We can add that.



Thank you. 1 MS. CATHY WUSTERBARTH: 2 MS. JESSIE HOWARD: Okay. So before we begin 3 tonight's presentations, I do just want to request that for 4 the sake of time the RAB members please hold their questions 5 and comments until the end of each presenter's presentation. We will have time for discussions at that time. First, we 6 7 have Ms. Paula Bond from Aerostar to give us the PFAS RI and 8 IRA update. 9 MS. PAULA BOND: Thank you. All right. Can you quys hear me okay? So I'm going to give everybody an update 10 11 on the PFAS RI, the fieldwork that we've been doing over the 12 last few months. We've been doing quite a bit of fieldwork 13 as most of you know, so I've just got some updates on each 14 of the different types of sampling and fieldwork that we've 15 been doing. So if we can go to the next slide, please? 16 A couple things before the fieldwork. We'll talk 17 about the UFP-QAPP addendum. That was issued back in June 18 for public comment and comment from EGLE. We have received 19 comments. We've reviewed those. We've responded to those comments from EGLE. We've kind of gone back and forth on 20 21 that. And we had a meeting on the 6th of October with EGLE to go over some of those comments, so we hope to issue that 22 23 final UFP-QAPP addendum in the very near future. So the 24 nature and -- and then the nature and extent investigation 25 regarding the RI, that will also continue through the end of



2023. Next slide, please. 1 2 So we are sampling different media at Wurtsmith. We're sampling groundwater, soil, surface water sediment, 3 4 seeps, biota, the storm and sanitary sewers, and we're also 5 looking at some private well sampling, going to do that. So we are sampling these different media to determine the 6 7 nature and extent of PFAS impacts in all of these media. 8 And that's been going on -- we started the fieldwork in 9 2021, and we've been doing that for the last couple of 10 summers. Next slide, please. 11 I'm going to start with the groundwater nature and 12 extent, or the groundwater delineation. We have a figure 13 here and I know it's difficult to see, but what I want to 14 kind of draw your attention to is just the general locations 15 of where we have been collecting these samples across the 16 base. As you can see they run from the southwest end of the 17 former installation all the way up to the northeast and then 18 down to the south. So we have been collecting guite a bit 19 of groundwater data. These are vertical aquifer samples 20 which means we're collecting groundwater data at different 21 depths in the aquifer. And we have completed everything 22 that is green on the figure; we have completed and there's 23 just a couple of locations that we're pending access that 24 fortunately we have recently gotten. So there's just a few 25 locations and we'll be finished with our vertical aquifer



1 sampling. We are screening the groundwater data to either 2 the lower of the USEPA regional screening levels or the EGLE 3 groundwater cleanup criteria and I've listed them here on 4 the slide just to give you an idea of what the screening 5 criteria are. Next slide, please. 6 For soil, kind of the same story. We've been

7 doing soil sampling in areas where we had evidence that AFFF 8 may have been used at the former installation. The figure 9 that you see shows red dots and green dots. We kind of made 10 it just a yes or no concentrations of PFAS for any of those 11 analytes were above the screening criteria or below. And 12 you can see we have collected samples up into the north at 13 DRMO, all across the base, down in the south, southwest, the 14 fire training area FTO2, the base operation area and site 15 SS71, kind of in the central east portion of the base. So, 16 like I said, as you can see some of those, the green dots 17 represent locations where soil concentrations were lower 18 than our screening criteria and these were at also multiple 19 levels in the soil down to the water table. So we're 20 sampling surface soil zero to six inches, six inches to two 21 feet, two feet to four feet, five feet to seven feet, 10 22 feet to 12 feet until we reach the water table. So there's 23 multiple sample depth locations for each of the soil. Our 24 screening criteria that we're using for the soil is the 25 updated USEPA regional screening levels and I've listed



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those there for you on the slide. Next slide, please. 1 2 Surface water, sediment and seep samples. We've 3 collected a few seep samples already. We're still going to 4 try to capture a few more before the year is over. We have 5 collected a portion of the surface water sediment sampling. We have completed that portion of sampling for the locations 6 7 that you see on Van Etten Lake. We have completed a portion 8 of those along the Au Sable River, Three Pipes Ditch that we're looking at. So we are planning on finishing that up 9 this week and into next week and then all of the surface 10 11 water sediment and seep sampling will be completed at that 12 time. But that work is still ongoing. Next slide, please. 13 The biota sampling. So we were looking at 14 different types of biota. We have sampled small mammals, we 15 have sampled aquatic vegetation from different water --16 water bodies that we're looking at. We have sampled 17 terrestrial vegetation from areas and we have also done fish 18 sampling from the Au Sable River, the Van Etten Lake, a 19 couple of the ponds in Clark's Marsh and around. And you 20 can see on the figure -- again, I know it's a little hard to 21 read but the locations where we've collected some of those 22 samples. All of the biota sampling is complete at this 23 time. Next slide, please.

24 We are also sampling the storm water drain system 25 at Wurtsmith. The figure that you see shows the locations



where we have sampled and there's a couple of locations that 1 2 we are -- are -- we just finished sampling, actually, the 3 end of last week so this figure is a little bit out of date. But you can see the locations where we have sampled, where 4 5 we want to get samples. And we're looking at the outfall 6 where the storm drain comes in to Three Pipes Ditch. And I 7 don't have a pointer, but it's down on the bottom left or 8 the central portion there. So we are sampling all of those 9 storm drains. We know there's a portion of that storm drain 10 that is below the water table as it moves down towards Three 11 Pipes Ditch, yeah, right in that area. So we are sampling 12 those storm drains to see if there's any impacts there. We 13 also did a camera survey of the storm drain. We wanted to 14 see if there are any cracks or any damage to the storm drain 15 and we got some really good video of that, that we'll be 16 sharing at the next RAB meeting but that all of this data 17 and information is just coming in. But that's not --18 activity isn't completed yet, but it will be in the next 19 couple of weeks. Next slide, please.

So also as part of the RI we're looking at the sanitary sewer system in areas that were operated by the -by the Air Force. You can see on this slide the little red boxes are pump stations that we're planning to sample and then there's some other manholes that we're planning to sample for the sanitary as well. None of this sampling has



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been completed yet, so that will also be completed in the 1 2 next couple of weeks. Next slide, please. 3 We are also going to do a transducer study to 4 evaluate the short-term effects of groundwater flow, the rising of the lake level and the groundwater flow as it 5 relates to the raising and the lowering of the lake level. 6 7 So we're going to install piezometers or small monitoring 8 wells to monitor the depth of water as it changes and we're 9 going to put pressure transducers in those wells which can 10 automatically monitor the changes in water levels for us so 11 that we can take a look at that. We're planning to install 12 those in the locations that you see on the figure. We have 13 some of these piezometers installed already, some are not. 14 We were waiting on access to some of these properties and we 15 just got access to several of these as recently as today. 16 So we will be installing some additional piezometers and 17 getting those transducers in for that study. Next slide, 18 please. 19 Van Etten Creek Hydrologic Study. So we're also 20 looking at some of those changes associated with Van Etten 21 Creek as well. We're looking at the difference in water 22 level on each side of the creek. So as the plume moves

toward the creek, we can kind of evaluate how it's moving and transporting in that area. You can see the blue in the northwest corner of the figure. That's actually the -- the



1	PFAS plume drawn there. And you can see it doesn't go over.
2	We haven't and just a couple of dots on there that are
3	kind of hard to I think kind of hard to see. But,
4	anyway, we're evaluating the movement across into and
5	across Van Etten Creek. So we're measuring water levels,
6	installing transducers in those wells, too. So this work is
7	not fully complete yet. It's probably 50 percent complete.
8	Again, some of these locations that we are looking to
9	install the piezometers we're relying on access to private
10	property and, again, we've just gotten access as recently as
11	today for some of these locations. So this work will be
12	completed in the next few weeks also. Next slide.
13	So as I mentioned a couple of times, a lot of our
14	sampling down in that area on the east side of Van Etten
15	Lake or south of Van Etten Creek is related to access
16	because most of this these this area is privately
17	owned property. So we're working to get access to those to
18	get the data that we need to finish our studies. We have
19	done a letter campaign. One thing that we're trying to do
20	also is verify if there are private or other wells existing
21	on properties. We know as the township is installing that
22	new water line out Loud Drive, we know that a lot of folks
23	have been put on city water. We are looking for drinking
24	water wells that have not been abandened that we may want to

24 water wells that have not been abandoned that we may want to 25 sample. So we have sent out letters to try to get



information or access to sample some of those existing wells 1 2 and also find out if your well has been abandoned, we want 3 to make sure we're tracking information. Even if your well 4 has been abandoned, we still want to know that. So that 5 letter campaign, those have gone out. We've sent out so far 6 120 letters. There's another batch of those letters going 7 out. And they include a survey just to update us on the 8 results or update us on are you using your well as a 9 drinking water source? Do you have a well? Or maybe you're 10 using it as irrigation but you're not using it as drinking 11 water. So we want to capture all of that information. And 12 then we have sent out letters also for access to install and 13 sample monitoring wells and piezometers. So some of you may 14 have seen some of those. Again, we were out actually today 15 doing door-to-door survey trying to get access to some 16 additional properties and we had some good success today so 17 that effort is also ongoing. So all of the work that we're 18 doing on the east side of Van Etten Lake and south of Van 19 Etten Creek are access dependent. But we are really -- feel 20 really good about our results and we are hopeful that we 21 will be able to get all of this work completed by the end of 22 the year. Next slide, please.

23 So I'm going to move on now to the Alert Aircraft 24 Area. Just a really quick update on that. As most of you 25 know, we did have a public meeting on October the 11th to



brief the community on the final proposed plan. 1 We did 2 receive comments from the community. We are currently 3 responding to those comments. They will be included in the 4 responsiveness summary that will come as an attachment to the record of decision that's being prepared currently as 5 well. And any changes that the Air Force makes based on 6 7 those comments will be included in the record of decision. 8 So those documents are all being prepared right now. Next 9 slide, please. 10 The Three Pipes Ditch Pilot Study. I quess the

11 first bullet kind of says it all. The pilot study has been 12 terminated based on the rainfall that we have observed and 13 the effects that that has on Three Pipes Ditch. In the last 14 RAB meeting or two we briefed information on the fact that 15 we installed some flow meters in Three Pipes Ditch because 16 before we installed the pilot study, we wanted to make sure 17 the effects that the rainfall has. So we were measuring 18 rainfall. We had a rain gauge out there. We were measuring 19 flow. Because we really wanted to see if we're going to put 20 the -- if you guys remember the Florosorb material? Jim had 21 a bag at the last RAB. You guys were looking at that. You 22 know, make sure that we could place that in there with some 23 certainty that depending on the amount of rainfall, the 24 effects that it would have, would it move those -- those 25 bags in the ditch and just, you know, kind of the conditions



that we would be encountering. So over the summer we 1 2 monitored that rainfall and one thing that we realized is 3 that the rainfall and those really short-term, heavy events 4 resulted in some really extreme flow through that ditch and 5 we felt that those conditions probably weren't the best suited for the pilot study that we were looking at. 6 Ιt 7 could still be done, but it would require a lot more work to 8 keep those bags in place based on the flow. So we felt that 9 we would re-tool just a little bit and take the opportunity to do some additional evaluation of Three Pipes Ditch which 10 11 would include installing a flow sensor in the six-foot 12 diameter pipe that takes the drainage from the base that 13 discharges into Three Pipes Ditch, add some additional drive 14 points and staff gauges to measure the levels in the lake 15 and the changes with rainfall over time and sample some 16 existing monitoring wells to determine the PFAS 17 concentrations and contributions to that ditch which kind of 18 coincides with some of the work that we're doing for the RI 19 as well. Next slide, please.

20 So this is a graph that we put together just kind 21 of to give you an idea, to show you that -- what we were 22 looking at with the rainfall and the discharge to the ditch. 23 And you can see on July the 5th there's a big spike there. 24 So that was one of the events that we looked at, and that 25 shows the weir discharge that we were measuring. And I'm --



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1 can't see that number up there, but I think it's 33,000 2 gallons per minute is what we were looking at going over the 3 weir which was something that we weren't expecting for such 4 a short-term event.

And if you go to the next slide we've got some -some photographs just to give you an idea of what the ditch looks like. So on the left is the base flow conditions and you can barely even see any water in the ditch. With the short-term rain event, the peak flow conditions, you can see the -- how the ditch has filled and overflowed with a really short duration event. So based on what we observed here, that was why we decided to re-tool the pilot study at Three Pipes Ditch just a little bit. Next slide, please.

14 So for our one-year outlook on the schedule, this 15 schedule hasn't really changed a whole lot from the last 16 RAB, but you can see the proposed plan public meeting, we 17 added some actuals on there. You can see the timeline for 18 the record of decision that's going to be coming out. 19 That's the full timeline, so that is through completion of 20 that. But we're working on that ROD right now with the 21 responsiveness summary to the comm- -- for public comment so 22 that'll be going to the Air Force in the next few weeks for 23 review and then on to EGLE and then -- and then out. 24 Everything else, like I said, on here is really similar. 25 The pilot study for Three Pipes Ditch, we're still going to



1 monitor that data so that's still on here. We're just not 2 installing the Florosorb mats or tubes. Next slide. 3 So for the five-year outlook, this has everything 4 that we're doing for the RI, for the pilot study, the 5 Aircraft Alert Area pilot study, so you can see the dates that we have here moving out over the next five years. 6 And 7 for the RI, we have everything going through the RI, the 8 feasibility study, the proposed plan and then the ROD and then remedial action. And then for the Aircraft Alert Area 9 we have everything going through the building, the Aircraft 10 11 Alert Area treatment system, and then monitoring on out 12 throughout the -- the next five years. Next slide. 13 I think that's it. Yes, Mark? 14 MR. MARK HENRY: I have a couple of questions, 15 please. 16 MS. PAULA BOND: Sure. 17 MR. MARK HENRY: During our technical meeting 18 vesterday you had indicated that in the soil sampling 19 profiles that had been done that it seemed like a lot of the 20 PFAS mass was down in the two to the four foot below land 21 surface depth. 22 MS. PAULA BOND: Uh-huh; right; uh-huh; yes. 23 MR. MARK HENRY: My question is, was part of the 24 protocol for soil sampling -- does it include the fraction 25 of organic carbon analysis in the soil?



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1	MS. PAULA BOND: We haven't done that for all of
2	the soil samples that we collected at all the locations on
3	the base. But sampling that is part of the RI for some of
4	our locations and we haven't completed that work yet. We
5	were going to do that when we were installing some of the
6	monitoring wells for the final piece of the RI, so we were
7	going to go back. But we are collecting that and some other
8	parameters as well when we install the monitoring wells.
9	MR. MARK HENRY: I was just wondering because it
10	could be over the lifespan of the base that the significant
11	fraction of the carbon has just kind of settled out down
12	there at about four feet.
13	MS. PAULA BOND: Uh-huh.
14	MR. MARK HENRY: And I was just wondering if there
15	was a correlation between the two?
16	MS. PAULA BOND: Yeah. We will be doing that. We
17	just haven't done that yet.
18	MR. MARK HENRY: Okay.
19	MS. PAULA BOND: Yeah.
20	MR. MARK HENRY: My other question had to do with
21	the Three Pipes Ditch. I've been asking for a very long
22	time for periodic surface water monitoring in that ditch and
23	finally we got a end of the pipe NPDES type of sampling done
24	last fall, I think, and it came up with, like, 1650 parts
25	per trillion of PFOS. I would think that the State of



1	Michigan would have requested more than just one sample. It
2	would be very interesting to have a regular sampling program
3	that looks at that surface water discharge and also the
4	discharge from Clark's Marsh because those are essentially
5	going 24/7 without anybody taking a look at them. I would
б	request that the Air Force implement that like they do for
7	periodic monitoring well sampling around the base. And I
8	can make that an action item. That was it. Thank you.
9	MS. PAULA BOND: Thanks, Mark. Yes, Dave?
10	MR. DAVID WINN: I got a couple questions. First,
11	you talked about the RI QAPP addendum.
12	MS. PAULA BOND: Uh-huh.
13	MR. DAVID WINN: You mentioned that Air Force and
14	EGLE had a meeting to discuss EGLE comments.
15	MS. PAULA BOND: Uh-huh.
16	MR. DAVID WINN: Right now out of the 78 comments,
17	14 of them are still unresolved and 19 are partially
18	resolved. What's the plan to get them Steve, are are
19	they going to get those resolved before the RI addendum is
20	completed?
21	MR. STEVEN WILLIS: Yeah, that's the hope. We're
22	still working towards that. We're still talking, we're
23	still working. As Amy indicated, we've got a meeting
24	scheduled on the 20th and some of those comments are tied to
25	the east side of the lake.



MR. DAVID WINN: And if -- and if you don't, it 1 2 goes into an arrars (phonetic); right? Amy, can you help me 3 with that? Do you specifically mean the --4 MS. AMY HANDLEY: 5 the new constituents that would become arrars or what do you 6 -- what do you mean, Dave? 7 I'm talking about the -- the MR. DAVID WINN: 8 unresolved -- if you guys come to an impasse with the --9 before the RI is completed, or I should say when the RI is completed, if there's still unresolved comments, how do they 10 11 get documented, resolved, what? 12 MS. AMY HANDLEY: So we still have the ability to 13 pursue a dispute resolution if we find that there are things 14 that need to be addressed that are not within this addendum. 15 So we do still have that ability if we get to that point and 16 EGLE still wishes to pursue certain items that -- that were 17 not addressed. So we do still have that ability to do that. 18 MR. DAVID WINN: Okay. Thank you. 19 MS. AMY HANDLEY: You're welcome. 20 Next question. Steve, could you MR. DAVID WINN: kind of -- you mentioned the Aircraft Alert Area IRA. 21 In 22 our technical meeting yesterday we had -- you had mentioned 23 that there was going to be, like, a two -- two-phased, 24 two-stage approach. Could you talk a little bit and kind of 25 bring everybody up to speed as to what that two-phased



approach is?

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2 MR. STEVEN WILLIS: I'm not sure necessarily a 3 two-phased approach. But we designed the treatment system based on the data that we had at the time. In the last 4 5 month we've collected additional RI data which shows that that plume is bigger than we originally anticipated. So we 6 7 are still evaluating that data and what impact it has on the 8 capture zone for the wells that we had included in the 9 design. But my expectation is that we'll probably need to 10 put additional extraction wells in and use additional 11 capacity for that treatment system. The way it's currently 12 designed, I think we've got five extraction wells and we're 13 using 3- -- roughly 3- -- 250, 300 gallons per minute of the 14 500 gallon per minute capacity of that treatment train that 15 we're building. As far as maybe your perception of the 16 phased approach, my recommendation to the Air Force 17 management and to EGLE is to continue to move forward with 18 the current design. We're planning to start construction in 19 April and get the building built. In the meantime, I'm 20 going to go back and get additional funding to MOD that 21 contract to address some data gaps in that area so that we 22 can put in additional extraction wells as appropriate and so 23 we'll -- we'll -- I'll do that over the winter. In the 24 meantime, we'll go ahead and press forward and start 25 building the building and then when we finish that contract



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1	MOD and figure out how many additional extraction wells and
2	where you know, to what depth and so forth, then we can
3	catch that up with the construction of the rest of the IRA.
4	If we don't do that and we completely stop and backtrack to
5	go collect that additional data and then modify the design,
6	we potentially could lose a construction field season which
7	instead of starting the system in October of next year, it
8	could be the following year. So my recommendation is we go
9	ahead and continue moving forward and not just stop and
10	backtrack.
11	MR. DAVID WINN: Okay. That's fine. I'm just
12	that's what we had discussed yesterday
13	MR. STEVEN WILLIS: Okay.
14	MR. DAVID WINN: and I wanted everybody to
15	make sure that everybody was aware of that that thought
16	process, that's all. On the Three Pipes Ditch pilot study,
17	the intent of the pads was basically to try to alleviate
18	some of the contamination or monitor it at that point;
19	right?
20	MR. STEVEN WILLIS: The real intent behind it was
21	to evaluate that media for other applications at Wurtsmith.
22	MR. DAVID WINN: Okay.
23	MR. STEVEN WILLIS: It was never intended as an
24	IRA or anything like that.
25	MR. DAVID WINN: Okay.



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1	MR. STEVEN WILLIS: So it was strictly a pilot
2	study to evaluate that technology specifically in that
3	application at that location. Based on that as Paula showed
4	in the the slides is based on that initial data that we
5	captured. Putting that that materials into the ditch was
6	just not going to be successful. The Forest Service owns
7	the property and they would not let us construct sufficient
8	reinforcement to keep the material from washing away and the
9	last thing we wanted was to put the material in the ditch,
10	load it up with PFAS which is what it's designed to do, and
11	then have a big storm and it washes all that stuff down to
12	the river.
13	MR. DAVID WINN: Okay. But that's but the
14	the IRA is part of the the CPA process for this area?
15	MR. STEVEN WILLIS: Correct; correct. And so they
16	are they are completely separate. However, as Paula
17	indicated, we are continuing to monitor and collect data and
18	that data is being fed to the CPA team and will continue to
19	be collected and fed to the contractor when we do final
20	design and construction of an IRA.
21	MR. DAVID WINN: Thank you.
22	MR. STEVEN WILLIS: Yep.
23	MS. PAULA BOND: Cathy?
24	MS. CATHY WUSTERBARTH: Yep. So first of all,
25	Paula, I want to thank you and your team for going door to



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1	door today. What a horrible day to do that.
2	MS. PAULA BOND: It was beautiful. It was
3	beautiful. We went really fast.
4	MS. CATHY WUSTERBARTH: All right. And, also, I
5	wanted to mention with the the Alert Aircraft Area IRA
6	comments, that responsiveness summary that you said is
7	included in in the response for those comments. I'd like
8	to request that the RAB member comments be addressed
9	separately from that because just by looking at the previous
10	documents for, say, the Van Etten Lake IRA, they're very
11	general in terms of responses and I believe that our RAB
12	members deserve a direct response for their comments at
13	least in that.
14	MS. PAULA BOND: Thank you. Tim?
15	MR. TIM CUMMINGS: Yes. Thank you, Paula. So on
16	page 21 and 22 of your the deck you referred to a camera
17	survey for storm sewer and sanitary sewer.
18	MS. PAULA BOND: Uh-huh.
19	MR. TIM CUMMINGS: And you mentioned getting some
20	good footage.
21	MS. PAULA BOND: Yeah.
22	MR. TIM CUMMINGS: I know you said that you also
23	were going to include this in the the next RAB, but any
24	sneak peak comments about what you saw down there?
25	MS. PAULA BOND: Well, yeah, I mean, we we saw



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1	some things that we expected. We didn't see significant
2	damage to the pipe, but there are some areas where
3	groundwater is is definitely seeping into the pipe and we
4	know that based on the concentrations that that we see
5	coming out of that pipe at Three Pipes Ditch. So and
6	that's the portion that's below the groundwater table out
7	there. So, yeah, we'll share those. Once we get the the
8	video downloaded and we can take some some snapshots from
9	that, we'll share that at the next RAB.
10	MR. TIM CUMMINGS: Thanks for the comment.
11	MS. PAULA BOND: Yes, Mark?
12	MR. MARK HENRY: Just because I'm really curious
13	about that pipe, about how far up from the the end of the
14	pipe at the beginning of Three Pipes are you seeing
15	groundwater coming into the system?
16	MS. PAULA BOND: So we had some issues. Once we
17	get down into that lower actually, can you go back to
18	was that 22, Tim?
19	MR. TIM CUMMINGS: 21, 22.
20	MS. PAULA BOND: 21? That had the figure on it?
21	Yeah. So as you can if you see on the map who's got
22	the pointer? Oh. Can I borrow your pointer, Mark?
23	MR. MARK HENRY: By all means.
24	MS. PAULA BOND: Thank you. So this is Three
25	Pipes Ditch, the discharge here and then this is the first



1	manhole up from Three Pipes Ditch and then this one is up
2	here and you can see the infrastructure from the airport.
3	So we were able to run the camera from this manhole down to
4	this manhole and then we ran over this way a little bit and
5	then we got a certain distance down toward this location.
б	So we made it all the way down to this manhole. Once we
7	started heading down, one of the issues that we had was
8	there was so much water coming into the pipe the rover with
9	the camera was going underwater and we couldn't see anything
10	anymore. So and this was during dry no rain
11	conditions. So and we knew that, that that sorry. We
12	knew that that was an issue, that the groundwater was
13	infiltrating into the pipe. So it was pretty high. The
14	rover was under water.

15 Another issue that we had is once you get down in 16 this lower reach of the pipe, there is guite a bit of sediment buildup in here. So the rover was also having a 17 18 hard time going through that sediment so it was just kind of 19 basically spinning its wheels. So we tried to go down to 20 Three Pipes here and put it in and try to run up the other 21 way so that we could get some information. We made it about 22 30 feet before it just kind of drowned out there with the 23 amount of water and the sediment that was in that part of 24 the -- of the pipe. So we do know between -- that from this location here on down to here, this is under -- below the 25



1	water table. And then we're working right now to put
2	together a figure that shows where the the groundwater
3	elevations, the pipe elevations that we've collected, so
4	that we can see the difference and exactly where that
5	transition from above the water table to below the water
6	table begins and that water starts coming in. So
7	MR. MARK HENRY: The reason that I am curious
8	about that is
9	MS. PAULA BOND: Yeah.
10	MR. MARK HENRY: that in that portion of the
11	base there has not been much investigation done and none of
12	it has shown concentrations in the groundwater around 1600
13	part per trillion. It would seem like once you know the
14	distance from that pipe that the groundwater is infiltrating
15	it would probably be a good idea to characterize the
16	groundwater in that area.
17	MS. PAULA BOND: Yeah. So there's been quite a
18	few samples collected in here and I have I don't have it
19	in this slide show, but we I will show bring that for
20	the next RAB, the overlay of the plume and this storm drain
21	so you guys can see that along with the elevation
22	differences. I think that will help. But, yeah.
23	MR. MARK HENRY: Thank you.
24	MS. PAULA BOND: Mike?
25	MR. MICHAEL MUNSON: You made an interesting



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1	comment because in one of my previous lives I was on the
2	board for for the villages. And right about in that area
3	we have we they have a storage lot there and the
4	ground every year would wash away.
5	MS. PAULA BOND: Uh-huh.
6	MR. MICHAEL MUNSON: You said you saw a lot of
7	deterioration in that storm sewer.
8	MS. PAULA BOND: Uh-huh.
9	MR. MICHAEL MUNSON: And I guess things are coming
10	full circle now. I have a pretty good idea I know why the
11	ground was washing away to the point where they actually had
12	to block off that area and not use it because it was they
13	were they were huge holes that would that would
14	swallow a vehicle or a trailer so we couldn't couldn't
15	park any trailers there anymore.
16	MS. PAULA BOND: Uh-huh.
17	MR. MICHAEL MUNSON: So it kind of makes sense
18	that that it's it's being washed away.
19	MS. PAULA BOND: Yeah. So that data will feed
20	into the CPA analysis that they're doing for Three Pipe
21	so all all of the data is kind of dual duty, helping to
22	support the RI, the CPA analysis for this area. So it's all
23	kind of working together. So but I'll have more
24	information on that study at the next RAB.
25	MR. DAVID CARMONA: Oh, go ahead, Bill.



1	MS. PAULA BOND: Dave, you or Bill?
2	MR. WILLIAM GAINES: Yes. Bill Gaines. How far
3	does the sliplining go down that pipe?
4	MR. STEVEN WILLIS: There there is no
5	sliplining in that pipe.
6	MR. WILLIAM GAINES: Oh, that's different from
7	Mission Street?
8	MR. STEVEN WILLIS: That's correct. It's a
9	different pipe, altogether different.
10	MR. MARK HENRY: This is about a six-foot diameter
11	pipe.
12	MS. PAULA BOND: Yeah. It's it's very large.
13	You can walk in there. Kalan?
14	MR. KALAN BRIGGS: This is Kalan Briggs with EGLE.
15	Wondering if you could verify if the actions agreements have
16	language in there that includes sharing information with
17	EGLE for the drinking water results?
18	MS. PAULA BOND: So for the letters that we're
19	sending out for drinking water, getting access to sample
20	those drinking water wells, we are asking for permission.
21	There is a box on there to to share can we share this
22	data? So they are checking the box yes or no, you can share
23	or not share the data.
24	MR. STEVEN WILLIS: And and the question is can
25	can we share the data with EGLE and the public?



1 MR. KALAN BRIGGS: And I quess how successful have 2 they been getting those boxes checked? 3 MS. PAULA BOND: Well, from the response that we've gotten so far, we've sent out 120 letters and I think 4 5 we've received back 29 letters. And there have been -- I 6 don't know off the top of my head, but I know there were 7 quite a few "do not share" responses on those. Yeah. 8 MR. KALAN BRIGGS: I quess just to the public, we 9 highly encourage sharing it because we can take actions 10 outside of what Air Force can do with those results. So 11 those that have not, I encourage you to do so in the future, 12 and -- and always feel free to share on your own as well 13 should you not choose or let Air Force share it on your 14 behalf. So thank you. 15 MS. PAULA BOND: Dave, do you have a question? 16 MR. DAVID CARMONA: Yeah. Slide 17, is that the 17 data you used to update the plume maps that you have out 18 The VAS, the vertical aquifer sampling? here? 19 MS. PAULA BOND: Yeah; yes; uh-huh; yeah. 20 MR. DAVID CARMONA: Okay. And then number 18 I 21 would like made an action item for slide 18. I would like 22 to see the plumes overlaid on the soil samples. 23 MS. PAULA BOND: Okay. We can do that. 24 MR. DAVID CARMONA: I think that would be a big 25 help for everybody because we discussed the airport, the



1 alert area yesterday regarding the sample, soil sample 2 versus what the plumes are showing. 3 MS. PAULA BOND: Uh-huh; yeah. We can do that. MR. DAVID CARMONA: Slide 19, the Van Etten 4 5 surface water sampling and seep sampling, are we going to get some sort of visualization of your results on that? 6 7 MS. PAULA BOND: Uh-huh. 8 MR. DAVID CARMONA: And when can we expect that? 9 MS. PAULA BOND: Yeah. So all of the data -- so 10 we're still collecting this data right now. So once we 11 collect the samples, we send them off to the lab, we get the 12 results, we should have everything back by the next RAB. 13 We'll be able to share all of this data for all of the 14 samples that we have on these figures here. 15 MR. DAVID CARMONA: Okay. And as far as the Three 16 Pipes area goes, I understand what you're going to be doing, 17 but monitoring is not a solution. I understand that the CPA 18 is going to be looking at your current proposal. Are there 19 other proposals on the table or other ideas that they've had 20 like using the impoundment area to the north side of the 21 six-foot pipe as a reservoir for your use? Just looking for 22 ideas that we can stop sinking 1600 parts per trillion into 23 the river.

24 MS. PAULA BOND: Uh-huh. Steve, do you want to 25 answer that with the --



1 MR. STEVEN WILLIS: Yes. The CPA team has looked 2 at all that. 3 MR. DAVID CARMONA: Okay. And then my last question is slide 31. Since this quarter you're starting to 4 5 compile the RI report, are we going to see that in part or will the RAB see that as a whole document at the end for 6 7 comments? 8 MS. PAULA BOND: You know, I'll let Steve answer 9 that. But probably the whole document will be issued, or 10 will be prepared before we issue that out for, for comment. 11 But I'll let Steve --12 MR. STEVEN WILLIS: Yeah. As -- as Paula said, 13 you know, we'll share the data at the next RAB meeting, but 14 the actual document, we'll finish the document and we'll -the Air Force will review it, EGLE will review it and then 15 16 it'll be out for the public. 17 MR. DAVID CARMONA: Okay. Previous experience 18 you've had doing this, how large is that document? Because 19 it seems like maybe several hundreds of or thousands of 20 pages. 21 MR. STEVEN WILLIS: It'll be huge. Thousands, 22 yeah; yeah. With all the appendices I'm sure it'll be 23 probably pushing 1,000 pages. 24 MS. PAULA BOND: It will be -- yeah. There's -we've collected a lot -- I mean, you can see from the 25



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1	figures all the sampling locations. We have a lot of
2	samples, thousands of samples that we've collected out here
3	over the last few summers. So it will be a big document.
4	MR. DAVID CARMONA: So what is the expectation
5	the RAB's duty to that report? Are we comment on it or
6	is it a final document that we have no say on before we move
7	to the feasibility study?
8	MR. STEVEN WILLIS: At this point there there
9	is no public comment opportunity.
10	MS. PAULA BOND: Any other questions on the RI?
11	Oh, oh. Hey, Arnie, go ahead.
12	MR. ARNIE LERICHE: Can you hear me?
13	MS. PAULA BOND: Yes.
14	MR. ARNIE LERICHE: Okay. Thanks. Okay. Two
15	things. One is on the the slip I mean, the storm
16	sewer Three Pipes. Great AI, Mark. It's a good thing that
17	that's out in the open now. A year ago I requested as an AI
18	to the EGLE to give us an idea of who owns these storm
19	sewers, what management plan is out there? Has it been
20	sampled? And she came back a few meetings after that and
21	she said that EGLE the Surface Water Division I think had
22	been working with either OWAA or the airport or the Oscoda
23	Township and they had been developing a plan. And so I'd
24	like to add those questions ownership and past sampling of
25	the Three Pipes outfall, but also the other outfalls and who



1	owns them. So I'd like to add that to or add it as a
2	separate one depending on what the Air Force and, Mark, you
3	think is right. Go ahead.
4	MS. PAULA BOND: No, I think you're you're good
5	to continue, Arnie.
6	MR. ARNIE LERICHE: Okay. Okay. Thank you. So I
7	don't know if we're getting echo here. Paula, a your
8	survey that you're going to be doing in the homes regarding
9	the wells and which ones are being used for hopefully no
10	one's drinking water anymore, at least in the southern
11	area but I had brought up the point and I was wondering if
12	your survey along with DHHS for possible guidance against
13	using any irrigation wells in some of the east side of Van
14	Etten Lake for humidity control in the winter? Because I
15	have personal knowledge that one family was using it even
16	after receiving the drinking water osmosis system that they
17	use for drinking, but then they filled their humidifier with
18	from the laundry room faucet which came from their
19	private well.
20	MS. PAULA BOND: Inventory questionnaire that
21	we're sending out, we're asking if you number one, do you
22	have a well? Number two, has it been abandoned? And then
23	if you do have a well, are you using it for drinking water
24	or other purposes? So I'm hoping that if folks are using

wells on that side of the lake, that our inventory will

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capture how they're using it and then we can work with DHHS 1 2 on maybe a follow-up to that if we get back those 3 questionnaires. MR. ARNIE LERICHE: I would ask that you be a 4 5 little more specific with examples of other uses because if 6 one person in the family does that practice -- and that's 7 what was happening, the husband was using the laundry room 8 water, the wife wouldn't know that and did not know that. 9 So if you could come up with some examples of what other uses are so that they would answer fully. It's definitely a 10 11 health hazard if we're using contaminated water in the 12 humidifier. 13 MS. PAULA BOND: I think that's a -- a good point. 14 MR. ARNIE LERICHE: Thank you. 15 MS. PAULA BOND: Any other questions? Dave? 16 MR. DAVID CARMONA: Just one last one. Are you 17 willing -- will you consider sharing your storm sewer --18 Dave Carmona here -- storm sewer video and data with the 19 township since it's their infrastructure? 20 MS. PAULA BOND: Yes, absolutely. Anything else? 21 All right. Thank you. 22 MS. JESSIE HOWARD: All right. Thank you, Paula. 23 Our next presentation is Ms. Celeste Holtz from BB&E with 24 the vapor intrusion RI update. 25 MS. CELESTE HOLTZ: Good evening, everyone. My



name is Celeste Holtz and I'm the project manager for the 1 2 vapor intrusion remedial investigation addendum project. I 3 previously presented at one of the RAB's earlier this year 4 just to provide a quick introduction and overview to the 5 project, and then tonight we're just going to do a quick 6 status update on where we're at. Next slide, please. 7 So as part of our contract we are performing an 8 Immediate Sampling Task at four buildings. So those four 9 buildings are buildings 25 and 43 at site 21, and then 10 building 5067 and 5068 at site 8. And you can see those on 11 the map there. So this Immediate Sampling Task is being 12 performed ahead of the overall remedial investigation as a 13 result of data that was collected during the last vapor 14 intrusion RI, and also as coordinated with EGLE and MDHHS. 15 So since the last RAB meeting we worked with EGLE and MDHHS to prepare and finalize our work plan for this Immediate 16 17 Sampling Task, and then in August we mobilized the field and 18 started fieldwork. As part of that first quarterly sampling 19 event, we conducted interior building surveys at all four 20 buildings and then we re-mobilized to the site to install 21 sub-slab vapor pins at all of the buildings. So we 22 installed a total of 57 vapor pins at the four buildings. 23 We installed two vapor pins at building 25, 16 vapor pins at 24 building 43, 23 vapor pins at building 5067, and then 16 at 25 building 5068. We collected samples from all of those vapor



1 pins and then they were sent to the lab and analyzed for 2 VOC's using TO-15 method. Next slide, please. 3 So this Immediate Sampling Task does include a 4 total of four quarterly sampling events over an 5 approximately one-year period. So we've already done that 6 first quarterly sampling event at the four buildings. And 7 then the buildings and sites included in that Immediate 8 Sampling Task will also be rolled into the overall remedial 9 investigation. So right now we are in the process of 10 preparing the summary report for that guarterly sampling 11 event that we completed along with the United States Army 12 Corps of Engineers and AFCEC, and then once completed, that 13 report will be submitted to EGLE and MDHHS. We are also 14 planning on presenting the results at the next BCT meeting 15 which is tentatively scheduled for November 30th. As far as 16 other activities under this Immediate Sampling Task, the 17 quarter two or second quarterly event will be performed 18 either at the end of this month or the beginning of 19 December, and then we'll prepare a summary report after that 20 event. And then the third and fourth quarterly sampling 21 events are tentatively scheduled for February and March of 22 next year and then May and June of next year as well. And 23 then we'll prepare reports for those events and submit those 24 to the state. Next slide, please.

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As far as an update for the overall Remedial



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1	Investigation, we've been working with EGLE and MDHHS to
2	prepare and finalize our UFP-QAPP. Right now we're working
3	on responses to comments that we received from EGLE and we
4	think that document will probably be finalized this month or
5	in December. As far as field activities for the overall RI
6	effort, the first phase of field activities is going to
7	include passive soil gas sampling and that's tentatively
8	scheduled to begin in the spring of next year once we get
9	through the winter season. Next slide, please.
10	On this slide, just a quick snapshot of our our
11	timeline and schedule for the contract. So you can see the
12	RI fieldwork there at the top and then the Immediate
13	Sampling Task that I talked about earlier down at the bottom
14	there in green along with our reporting activities for the
15	feasibility study, proposed plan and ROD.
16	And that is our last slide and update for tonight.
17	We plan to be at the next RAB meeting and hopefully we'll
18	have our results for the first quarter and hopefully the
19	second quarterly event as well. Thank you.
20	MR. SCOTT LINGO: Scott Lingo, community RAB. I
21	have a question looking at the map that you had where the
22	vapor pins are currently being utilized.
23	MS. CELESTE HOLTZ: Yep.
24	MR. SCOTT LINGO: The area beyond building number
25	21 that is blue, does that that's where they're going to



1	put additional darts for collection. Just immediately to
2	the northwest of that this past summer across from Ratliff
3	Park there were a lot of tents and kids and stuff like that
4	along that area camping and I wonder why we are having
5	outside activities in that area and people in that area if
б	they're putting the vapor pins all the way to 41 beyond
7	building 25.
8	MR. STEVEN WILLIS: The vapor pins are not going
9	in all that blue area. That's the SS021 IRP site boundary.
10	The this investigation is focused specifically on those
11	two buildings down in that lower corner.
12	MS. CELESTE HOLTZ: Yeah. They're kind of hard to
13	see, but they're in red kind of behind the blue shading. So
14	just that site 21, it's building 25 and 43 which are kind of
15	at the very west end.
16	MR. STEVEN WILLIS: On the screen they're marking
17	the area.
18	MR. SCOTT LINGO: Okay. I was just looking at the
19	additional soil vapor data collection on that key where it
20	says "requires risk assessment." So that's as that blue
21	continues towards Menoton (phonetic), this was just beyond -
22	- yeah, just beyond where they have the new building by Ken
23	Ratliff and that that open field area right across from
24	the park. So I guess my concern is is who is out there?
25	Is it safe for them to be out there if we've got vapor pins



1 possibly being placed and we have a concern about VOC's 2 being emitted from the ground, is that such a good idea to 3 continue public activity in that area? Just a thought. MS. CELESTE HOLTZ: Yeah. So right now we haven't 4 5 installed anything and then the passive soil gas samples are going to be limited to kind of the former base area. 6 So 7 we --8 MR. SCOTT LINGO: Okay. Well, this was on the 9 base and that's -- that's -- that's my question. And I'm 10 just looking at that key where it says "additional soil 11 vapor data collection," that's what led me to believe that 12 there was going to be some tests in that blue area in 13 looking at the key if I'm seeing it correctly. 14 MS. CELESTE HOLTZ: Yeah, in the future we will be collecting passive soil gas samples kind of throughout that 15 16 site and those are just a small diameter tube that gets 17 installed into the ground --18 MR. SCOTT LINGO: Sure. 19 MS. CELESTE HOLTZ: -- and sampled. And then I 20 quess I would just say if the kids were outside in tents, 21 probably not a concern from a vapor intrusion perspective. 22 MR. SCOTT LINGO: Okay. 23 MR. STEVEN WILLIS: Yeah. The concentrations in general are -- are not high enough to create an exposure 24 25 concern for people out walking, recreating, that kind of



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25	MR. MARK HENRY: Okay. Thank you.
24	good.
23	MS. CELESTE HOLTZ: Yeah. The PID results looked
22	significant concentrations are probably pretty low?
21	MR. MARK HENRY: So the chances of those showing
20	level detection. I think it was less than one ppm.
19	from memory here, I think we had all zeroes. We had one low
18	MS. CELESTE HOLTZ: We did; we did and I going
17	registered volatile organics under those slabs?
16	as a preliminary to find out if there were if it
15	buildings, did you perhaps hook a PID instrument up to those
14	For the sub-slab monitoring points that you put in the
13	MR. MARK HENRY: Mark Henry. I have a question.
12	MS. CELESTE HOLTZ: Thank you, Scott.
11	around and it's going to be dispersed.
10	MR. SCOTT LINGO: Okay. You've got enough air
9	looking at.
8	MR. STEVEN WILLIS: That's that's what we're
7	explanation. I understand.
6	MR. SCOTT LINGO: Okay. Thank you for the
5	workers.
4	concentrate and create a potential exposure for indoor
3	because it's a closed enclosed space you may have it
1 2	activity. What we're looking at is a potential concern for the vapors coming up through the slabs in the buildings
1	activity What walks looking at is a potential concern for

1 MS. CELESTE HOLTZ: Yep. 2 MR. TIM CUMMINGS: Yeah. Hi. Thank you. Tim 3 Cummings, Oscoda Township. My question has to do with the 4 map that you show the sampling method we were just 5 discussing that's on the screen. And just south of these 6 two areas in blue are the residences of the villages of 7 Is there going to be any testing done in those Oscoda. 8 areas? 9 MS. CELESTE HOLTZ: So we do have the OTO-24 site as included in part of our contract. Right now that site 10 11 isn't slated for additional sampling, but we have been 12 working with AFCEC and the Corps of Engineers for a contract 13 modification for that site to be added in. 14 MR. DAVID CARMONA: Dave Carmona. When was the 15 last VI, vapor intrusion, RI conducted? 16 MS. CELESTE HOLTZ: I think the report was 17 finalized in 2020 or 2021. 18 MR. DAVID CARMONA: Okay. And so we have a new 19 report or a new RI being done and I believe I asked you this 20 time and you were less than forthcoming on why all of a 21 sudden the sudden concern over vapor intrusion if we had a 22 report done three years ago and seems that it was 23 satisfactory. So I have a concern about the reason for 24 this. 25 MR. STEVEN WILLIS: So there's a couple of reasons



1	for the follow-on RI. The initial one did not include any
2	type of a risk assessment at all. So it collected a bunch
3	of data, but it only got us halfway there. It didn't really
4	get us the final answer do we have a risk at these sites or
5	not. So initially that was the primary concern for this
б	follow-on contract was to look at all the data that was
7	collected and do a risk assessment. But as we started
8	compiling and looking at not only the data collected for
9	that previous investigation, but also just some additional
10	general groundwater information, we identified additional
11	areas that needed to be evaluated. So this is not suddenly
12	a new, surprising thing. Just the previous investigation
13	was incomplete and it was scoped that way. It wasn't like
14	the contractor only did half the work. They were never
15	contracted to do a risk assessment. That was all before my
16	time. But at this point we're addressing that.

MR. DAVID CARMONA: So based on that lack of scoping on the last one, this pre-testing that you're doing before the RI, is that to help refine your scoping for this or is this just additional data you think is necessary?

21 MR. STEVEN WILLIS: So this is -- the -- the 22 sampling in these buildings, the sub-slab vapor pin 23 sampling, is a result of the previous -- the data from the 24 previous investigation. They sampled around the buildings 25 and we had some fairly high values. So we met with EGLE,



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1	talked through the data and EGLE requested that these
2	specific four buildings, because they are occupied
3	buildings, be moved forward for accelerated evaluation ahead
4	of the rest of the investigation. So that's why Celeste had
5	indicated we've got the immediate sampling activities and
6	that work plan was already finalized and the work is already
7	being done and then we've got the broader contract which
8	includes some additional sites we didn't previously look at
9	as well as a risk assessment for all the sites.
10	MR. DAVID CARMONA: Okay. So you're looking at
11	all this data. Is that going to be tied to the fate and
12	transport of groundwater?
13	MR. STEVEN WILLIS: No.
14	MS. CELESTE HOLTZ: I mean, we
15	MR. DAVID CARMONA: Doesn't this there's
16	something, organics in the ground. Groundwater is going to
17	move it. It makes sense that it may be outside of the
18	boundaries of the base or outside your scoped areas. That's
19	what I'm asking.
20	MS. CELESTE HOLTZ: Yep. So as part of that
21	overall RI. So right now we're just looking at these four
22	buildings to to get that taken care of, like talked about
23	with EGLE and DHHS. And then as part of the remedial
24	investigation, I kind of went over it during the last time I
25	presented. We have kind of a phased approach where we're



1	doing first the passive soil gas sampling, then we'll be
2	doing additional soil and groundwater characterization as
3	needed to identify any data gaps, figure out where the VOC's
4	are actually at in the soil and groundwater like you were
5	talking about. And then based on that we'll know exactly
б	where our point of compliance line is at is what it's
7	usually referred to, and our lateral inclusion zone and then
8	that's how we'll identify the buildings that we want to
9	install vapor pins in.
10	MR. DAVID CARMONA: Sounds to me like the scope is
11	predetermined to limit this to the base boundaries.
12	MS. CELESTE HOLTZ: I don't think that's
13	necessarily the case. Some of the areas will be extending
14	off off base as needed.
15	MR. DAVID CARMONA: Okay. Thank you.
16	MS. CELESTE HOLTZ: Any other questions? Okay.
17	Thank you.
18	MS. JESSIE HOWARD: All right. Thank you,
19	Celeste. At this time I am going to break us for our
20	ten-minute break, and then we do have one more final
21	presentation for tonight, but we will be back here in about
22	ten minutes. Thank you.
23	(Off the record)
24	MS. JESSIE HOWARD: All right. Finally we have
25	Mr. Craig Johnson from EA presenting the PFAS sources other



1	than AFFF. Craig is joining us virtually tonight so he'll
2	be presenting virtually. And then when he's done with his
3	presentation, so that we don't get any loud feedback noises
4	from the mics, I'm going to pass my mic around so we can ask
5	him questions with my mic so we can turn all the rest of
6	them off. So, Craig, when you're ready, go ahead and begin
7	your presentation.
8	MR. CRAIG JOHNSON: Yeah. Good evening, everyone.
9	As mentioned, my name is Craig Johnson, project manager from
10	EA Engineering, Science, and Technology. And I'll be
11	providing the briefing on the PFAS sources other than AFFF
12	at multiple AFCEC BRAC installations and specifically
13	tonight we'll discuss the former Wurtsmith Air Force Base.

14 This project was awarded in 2023, February of 2023, so this 15 is the first presentation to this RAB board here. Next 16 slide, please.

All right. The project team includes the US Army Corps of Engineers' Omaha District, the Air Force Civil Engineering Center (AFCEC) BRAC division, and EA Engineering, Science, and Technology. Our contract is with the Omaha District and we're working with both the Omaha District as I mentioned and the AFCEC BRAC team. Next slide, please.

There are two primary objectives to this -- for this project as noted here, to determine whether and where



potential PFAS sources other than AFFF were stored, handled 1 2 and/or used and released, and the other one is to identify 3 if a potential PFAS release poses little or no potential threat to human health and the environment from PFAS or if 4 5 it warrants further investigation. We do have a couple project constraints. As you know, PFAS is somewhat of a new 6 7 industry here and there are -- is a limited material content 8 information in the safety data sheets that we review, and 9 there is limited knowledge of base operations due to the 10 closure back in 1993, so that's guite awhile ago, and struggles with finding some of the folks that had worked 11 12 there previously. Next slide. Thank you. 13 So the four primary tasks associated with this 14 project, first is a historical records search of existing 15 documents and that was primarily through the admin record. 16 Those might include the environmental baseline surveys and 17 those type of reports that consolidate the information, the 18 activities completed at each of the buildings that we 19 evaluated. We also do -- interview personnel familiar with 20 the history and operations of the base. And then from that 21 we determine if potential or identified releases of PFAS due 22 to the Department of the Air Force activities will require 23 additional investigation and that gets documented in a 24 research report that we will do for each BRAC installation.

We've estimated that we'll probably get this one wrapped up

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by February of 2025, if not earlier. Next slide, please. 1 2 So summary of the things that we are evaluating. There's over 1230 shops, locations, former buildings that 3 4 are within the former Wurtsmith Air Force Base footprint. The primary documents, there's seven primary documents that 5 6 we evaluated. There's numerous other ones that are 7 available and that we looked at, but those that had the most 8 current information were evaluated a little bit more 9 intently. And then we also did conduct -- we were able to 10 conduct eight interviews of folks who were familiar with the 11 former activities and processes there. Next slide, please. 12 As shown here, our -- our -- the focus of the 13 records research and interviews was the processes and 14 products used in each of the former buildings and shops and 15 then to identify the potential discharges and disposition of 16 those potential PFAS materials. So this table to the right kind of summarizes that. It shows the former shops and 17 18 processes there in the first two columns that may have used 19 PFAS products with the final column that identifies the 20 types of products that might have potentially had PFAS in 21 them. You know, we're -- we're early on in the process. We 22 have interviewed quite a few folks that we were provided 23 names and when we interviewed those folks, we asked them if 24 they had any additional folks that we could interview and 25 that led us down a path of a couple more interviewees. But



1	part of today is to identify maybe anybody at this meeting
2	or anywhere else that might have some information of the
3	former activities and products that were used at that and if
4	so, we'd like to get your contact information such that we
5	could interview you, too, as well. And you can provide that
6	to Steve at the meeting. The last slide that I have here
7	identifies provides his contact info obviously, but you
8	guys should all have that. So we're just early on in the
9	process and kind of getting things going on Wurtsmith. Like
10	I said, we're evaluating those 1200 plus buildings and doing
11	completing interviews and this will all be completed
12	ultimately in a report that'll get submitted. And that's
13	that concludes the summary of this PFAS this project that
14	we're doing right now. Do we have any questions?
15	MS. CATHY WUSTERBARTH: Thank you. Thanks for the
16	presentation. This is Cathy Wusterbarth. Outreach
17	questions. I'm wondering if you are going to consider
1.0	

18 outreach to our local VFW, our local American Legion, and 19 possibly our newspaper? I find -- I feel like that would be 20 helpful for getting some feedback for community members that 21 may have worked on the base.

22 MR. CRAIG JOHNSON: Yeah. Cathy, that's a great 23 idea. We'll -- we'll give that some consideration. We were 24 provided the initial contact interviewees with Steve and 25 some of the other folks that had worked there historically



and from the Air Force, but we would -- that's a good idea. 1 2 We could certainly reach out to those folks as well. MR. DAVID CARMONA: Dave Carmona. A lot of this 3 4 research that you're doing has been done. Are you -- can 5 you use the information, historical reviews from the current 6 PFAS RI being conducted for your purposes for the historical 7 information? And have you looked at the National Archives 8 or DOD Logistic Archives for that information? 9 MR. CRAIG JOHNSON: Yeah. So we -- we are --Dave, we are using the existing documents. Many of those 10 11 were focused on AFFF. The focus of our PFAS evaluation is 12 non-AFFF. And so we do reference those documents where 13 applicable. As far as any other historical documents during our interviews and our conversations with the Air Force, we 14 15 requested any information that they might have that's not in 16 the admin record to be provided to us. 17 MR. REX VAUGHN: Rex Vaughn, Community RAB. Τn 18 your slide 42, the former shop building column, have you 19 identified -- let me back up. The -- that column lists a 20 lot of stuff that you wouldn't necessarily correlate with an 21 air base, but that's from a civilian standpoint. Is every 22 item or every row listed in there -- were those shops or 23 buildings found on the base or is this just a general list of everything that you found on the other bases or other 24 25 installations that you've looked at?



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	25	MR. CRAIG JOHNSON: Yes.



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1	MR. ARNIE LERICHE: This is Arnie Leriche, with
2	the Community RAB. Are you looking at beyond just the
3	physical building and what was done there outside the box on
4	intermittent uses or changes to normal procedures? One case
5	in example, and it's a high volume PFAS potential, and
б	that's the oil/water separators on the base. Now those
7	could be at many different locations. Like we heard earlier
8	there's one that is at the outfall of the Three Pipes storm
9	sewer that's now owned by township or the airport. But
10	there was one also at the fire training site, FTO-2, and
11	we've heard that there was a time when rather than the
12	separated water going to the old sewage treatment plant that
13	the Air Force ran when it was active, but they trucked it to
14	another location. So there's there's different questions
15	that you would might want to target that have the highest
16	potential for a lot of PFAS.
17	MR. CRAIG JOHNSON: Yeah. No, that's a good

MR. CRAIG JOHNSON: Yeah. No, that's a good 17 point. We are evaluating -- looking at all the oil/water 18 19 separators that we have available information for and going back to those reports. And if in that research identifies a 20 21 process or a chemical that may have been discharged to that, then we would include that as potentially moving forward. 22 23 So, yeah, we are -- we are aware of the oil/water separators and those kind of things, tracking drains, maybe where they 24 might end up, sanitary sewer, those kind of things. So, 25



yeah, we are definitely looking outside just the immediate 1 2 vicinity of the building and -- and in the interviews and 3 historical records we're considering any uses that may have 4 been just outside the norm if we're aware of it. 5 MR. ARNIE LERICHE: I would -- I would like to ask 6 is it possible that you may do an interview of the whole RAB 7 but not as individuals, but as a group so that we could have 8 some comfort level on what and how the questions are asked 9 and the detail of it and the purpose and also you may find out that some of us have some knowledge through friends and 10 11 hearsay that may lead to additional interviewees. 12 MR. CRAIG JOHNSON: Yeah. Steve -- Steve Willis, 13 I guess we'd coordinate that through you if we were doing 14 kind of a group thing. We could certainly do an individual 15 thing, but if you wanted kind of a group interview, we 16 could -- we'd certainly work with Steve to coordinate 17 something to that effect. 18 MR. ARNIE LERICHE: Thank you. 19 MR. STEVEN WILLIS: Yeah. So we can look into 20 that, Armie -- Arnie. We did a couple of group interviews 21 with smaller groups. I'm not sure that having the whole RAB 22 on a group interview would be productive. If you know of 23 somebody -- you mentioned hearsay and others. If you know 24 of somebody that might have information, if you could give 25 us that information that was on Craig's last slide, we can



set up an interview directly with that individual. 1 It would 2 be much more productive. 3 UNIDENTIFIED SPEAKER: I'll talk to you. MR. STEVEN WILLIS: 4 Okav. 5 MR. ARNIE LERICHE: Thank you. The reason I asked 6 was because the preliminary assessment that was done in 7 2015, '16, seemed to be very light on conversations and 8 information shared. It just seemed to be very, very light 9 and that was disappointing and we're learning from that. So that's why I was thinking maybe if just a Community RAB, 10 11 let's talk to the two Community co-chairs, I mean, the two 12 co-chairs, think it through, see if there could be a benefit 13 of a one hour call. That's all. Thank you. 14 MS. JESSIE HOWARD: Thank you. Did we have any 15 other questions for Craiq? Okay. So now I would like to 16 open the floor for RAB member questions and comments. Just 17 remember to state your name for the record prior to your 18 question or comment. 19 MR. DAVID WINN: Dave Winn. Steve, I'd like to 20 know now that all the biota sampling and the surface water 21 and sediment sampling is completed, it's been guite awhile 22 since we've heard any status on the ecological risk 23 assessment. Can you give us any update there?

24 MR. STEVEN WILLIS: We just collected the data so 25 we don't have any results back from the lab yet. All the --



1	I mean, timeline
2	MS. JESSIE HOWARD: I'm sorry?
3	MR. STEVEN WILLIS: Paula Paula
4	MS. JESSIE HOWARD: I'm thinking I don't know the
5	timeline.
6	MS. PAULA BOND: Sure, you can answer. Yeah,
7	Dave, so like Steve said, we are just finishing the data
8	collection efforts. So once we have all the data collected,
9	that's when they will really dig into developing the risk
10	assessment. So that's going to be probably that will
11	come out with our draft RI report which will be next year,
12	next summer.
13	MR. DAVID WINN: You hand all that information
14	over to Janet Anderson's group?
15	MS. PAULA BOND: Yes; yeah; uh-huh; yep.
16	MR. DAVID WINN: Okay. So, I mean, are they
17	are they working on anything at all or are they just
18	waiting?
19	MS. PAULA BOND: Yep. So they have yeah, they
20	have some the preliminary data that we have. So as we've
21	collected the data we're shooting that over. But the biota
22	data, all of that, we have just finished that sampling so we
23	don't even have the results back from that stuff yet.
24	MR. DAVID WINN: Okay.
25	MS. PAULA BOND: Yeah.



1	MR. DAVID WINN: Steve, all I'm asking is it if
2	it's possible that we can get an update from Janet Anderson
3	or whoever on where they sit? I mean, if they've been doing
4	nothing, then fine. But if they've been doing something for
5	the risk assessment, it'd be nice to seek some kind of an
б	update if that's possible.
7	MS. PAULA BOND: Yeah. I don't think they have
8	they are deep enough into it yet, Dave, to have any results.
9	MR. DAVID WINN: Okay. Okay.
10	MS. PAULA BOND: But I think as we move on in the
11	spring maybe an update at that time.
12	MR. DAVID WINN: Okay.
13	MS. PAULA BOND: Thanks.
14	MR. SCOTT LINGO: Scott Lingo, Community RAB. In
15	regards to the biota sampling, it sounded like we were done
16	with that. Are they going to look at any more collection of
17	whitetail deer in the area? It's been some time since
18	they've done any muscle mass testing or any other testing of
19	deer. I believe Fish & Wildlife had harvested I think 21
20	several years ago now and just wondering if they're going to
21	take a look at that again in the future.
22	MR. STEVEN WILLIS: So the Air Force was not
23	including deer in our eco risk assessment. I don't know if
24	the state health department was doing any additional work on
25	deer. Are you aware of any any updates on that?



1 MS. CHELSEA GARY: I think I would have to get 2 back to you on that one. I don't remember right now, but 3 I'll note that. MR. SCOTT LINGO: It'd be nice to hear if they are 4 5 going to take a look at that -- you know, large mammals in 6 the future. Because we have our Do Not Hunt signs 7 established within our five-mile radius and they've been up 8 since that initial assessment so it would be nice to see if 9 maybe there's been any change? 10 MS. CHELSEA GARY: So you're referring to Clark's 11 Marsh? 12 MR. SCOTT LINGO: Yes, the Clark's Marsh area and 13 around Wurtsmith Air Force Base. 14 MS. CHELSEA GARY: Yeah. So in the Clark's Marsh 15 area, the radius was lowered to three miles. 16 MR. SCOTT LINGO: Okay. And are the signs that 17 are posted currently -- have they been updated to decrease 18 that radius from five miles to three miles or are they still 19 stating five miles that are out along the roadsides and 20 such? 21 MS. CHELSEA GARY: That is a good guestion as 22 well. I'll have to look into that. 23 Okay. Thank you. MR. SCOTT LINGO: 24 MR. KALAN BRIGGS: Kalan Briggs from EGLE. My 25 phone a friend says it's a three-mile radius now.



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1	MR. SCOTT LINGO: And those signs are designating
2	three miles now?
3	MR. KALAN BRIGGS: That I don't know.
4	MR. SCOTT LINGO: Okay.
5	MS. JESSIE HOWARD: Cathy?
б	MS. CATHY WUSTERBARTH: All right. Cathy
7	Wusterbarth. Wanted to thank the coordinators I'm not
8	for sure who made that happen but get the getting the
9	presentation on the RAB website. Appreciate you getting
10	that on there so that it can be available to the public for
11	the meeting.
12	MR. STEVEN WILLIS: That's our Public Affairs
13	office.
14	MS. CATHY WUSTERBARTH: Thank you, Public Affairs.
15	And then the notice in the paper, it looks I'm trying to
16	figure out the pattern in this. It looks like maybe it's
17	posted in the papers three weeks before the meeting, and two
18	weeks before, but not, like, today? Today our local
19	paper comes out on Wednesdays.
20	MS. JESSIE HOWARD: I believe that we run the ad
21	the Wednesday prior to give people a heads-up.
22	UNIDENTIFIED SPEAKER: The 25th (inaudible)
23	MR. MIKE MUNSON: It was in today's paper.
24	MS. CATHY WUSTERBARTH: Was it? I didn't see it,
25	Mike, no.



1 MR. MIKE MUNSON: Yeah. On the third page. 2 MS. CATHY WUSTERBARTH: Okay. 3 MR. MIKE MUNSON: At the bottom. MS. CATHY WUSTERBARTH: Great. Well, thank you 4 for putting that in and it has a QR code that makes it 5 And I don't know, the little website, registration 6 easier. 7 website, is much shorter, too, so thank you very much for 8 making all those corrections for the public. That's it. 9 MS. JESSIE HOWARD: Thank you. Anybody else? 10 MR. DAVID WINN: I have just one. And this is 11 just for audience people and online. If -- if anybody has -12 - as far as Van Etten Lake or anything, have any pictures or 13 any foam sightings, Paula Bond from Aerostar is looking for 14 additional pictures and indications so that they can see where the foam is -- is -- is gathering and creating. So if 15 16 anybody on Van Etten Lake has foam pictures, Paula would 17 like to see those I believe; right? 18 MR. STEVEN WILLIS: Particularly if you've got 19 foam pictures and you're interested in letting us sample on 20 your -- collect soil samples on your property. 21 MR. DAVID WINN: Very good. Thank you, Steve. 22 MS. JESSIE HOWARD: All right. Any other RAB 23 member questions? Do we have anyone virtually, Amy? 24 MS. AMY RAUSER: (Inaudible) 25 MS. JESSIE HOWARD: Arnie, go right ahead when



you're ready.

1

2 MR. ARNIE LERICHE: Okay. Arnie Leriche. 3 Regarding the ecological risk assessment status as David 4 Winn asked, Paula, I talked to you yesterday and it'd be very helpful rather than wait another six months before we 5 hear anything from -- on the ecological risk team, if we 6 7 could just get a few presentation -- a few slides, a status 8 of the monitoring plan that was established. Did it go as 9 planned? Did -- were you able to collect all the samples 10 that you tried to or were you unable to on some section of 11 where you wanted to? Just a status. Just about three or 12 four slides on -- on what, how it compared, what you 13 collected versus what you asked or you wanted to do?

MS. PAULA BOND: Yeah. Arnie, we can pull thattogether and have that ready for the next RAB for you.

MR. ARNIE LERICHE: Okay. Maybe as a technical session like a month before or something?

18 MS. PAULA BOND: Right; yeah. So we were talking about and I'll confirm -- we'll confirm this with Steve --19 20 about doing a technical session that was focused on the risk 21 assessment to give everybody an update on that kind of like we've done in the past. We've had the risk assessors come 22 23 in and give some additional information. We don't have a 24 date scheduled for that yet. But, yeah, we are looking at that. 25



1	MR. ARNIE LERICHE: Thank you.
2	MS. JESSIE HOWARD: All right. So I will do just
3	a quick review of the public comment guidelines and then we
4	will move on to that. Number one, please raise your hand to
5	indicate that you'd like to make a comment. Number two,
б	when I acknowledge you, please we will bring you a mic
7	actually this time and be sure to say and spell your name
8	for the record prior to making your comment. Number three,
9	please keep your comment to three minutes or less. And
10	number four, comments will be addressed at a later time if
11	the RAB members determine that a follow-up is needed. Do we
12	have anybody with us in the building tonight that would like
13	to make a comment? Nobody. Amy, do we have anybody
14	virtually?
15	MS. AMY RAUSER: (Inaudible)
16	MS. JESSIE HOWARD: Okay. Tony, whenever you're
17	ready.
18	MR. TONY SPANIOLA: Thank you. Can you hear me
19	okay?
20	MS. JESSIE HOWARD: Yes.
21	MR. TONY SPANIOLA: Thank you. I just I just
22	had a question I wanted to make sure that I that I was
23	hearing things right when Steve, when you spoke earlier.
24	Is it am I correct in hearing you say that with regard to
25	the the the proposed aircraft or Alert Aircraft Area



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1	IRA that that Air Force is looking at not as not
2	necessarily as part of the current construction because it
3	would slow things down, but looking at expanding the the
4	capture, the extraction well capture fields and using more
5	of the using more of the capacity? Did I hear is
6	that did I hear that right?
7	MR. STEVEN WILLIS: Yes, that's correct.
8	MR. TONY SPANIOLA: Thank you. Thank you for that
9	clarification. That's that's all I have.
10	MS. JESSIE HOWARD: Thank you, Tony. If there are
11	no other additional comments, I would like to invite our
12	co-chairs to give their closing remarks and adjourn
13	tonight's meeting.
14	MR. STEVEN WILLIS: Do you want to go first?
15	MR. MARK HENRY: Sure. I'd like to thank everyone
16	who attended the meeting tonight. I thought it was fairly
17	productive. I'm looking forward to the next one when we get
18	a a better sort of global look at what's been going on
19	and hopefully everything will go as planned, all the
20	fieldwork will get done this year and we can sit back and
21	figure out what to do next.
22	MR. STEVEN WILLIS: Yeah. I'd also like to thank
23	everyone for coming. I thought we had some good good
24	discussions tonight. It's actually surprisingly short
25	meeting. I thought we were going to run long with the



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1	number of presentations. But, again, I appreciate
2	everybody's interest in coming out and listening and look
3	forward to seeing you at the next meeting. Thank you.
4	MS. JESSIE HOWARD: Thank you. Everyone have a
5	great night.
6	(Meeting concluded at 7:01 p.m.)
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1	CERTIFICATE
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4	I, Marcy A. Klingshirn, a Certified Electronic Recorder
5	and Notary Public within and for the State of Michigan, do
6	hereby certify:
7	That this transcript, consisting of 80 pages, is a
8	complete, true, and correct record given of this meeting
9	conducted on November 8, 2023.
10	I further certify that I am not related to any of the
11	parties to this action by blood or marriage; and that I am
12	not interested in the outcome of this matter, financial or
13	otherwise.
14	IN WITNESS THEREOF, I have hereunto set my hand this
15	16th day of November, 2023.
16	
17	
18	Marcy a. Klingshin
19	
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21	Marcy A. Klingshirn, CER 6924 Notary Public, State of Michigan
22	County of Eaton My commission expires: March 30, 2029
23	My commission expires: March 30, 2029
24	
25	
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