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FORMER CHANUTE AIR FORCE BASE
RESTORATION ADVISORY BOARD MEETING
NOVEMBER 16, 2017

Rantoul Business Center
601 South Century Boulevard
Rantoul, Illinois

1 (RAB Meeting commenced at 12:00 p.m.)

2 MR. CARROLL: It is 12:00 o'clock, so
3 we'll go ahead and get started. I'm Paul Carroll.
4 I'm the Air Force's program manager for the former
5 Chanute Air Force Base. I'll be briefing part of
6 this, we'll have Howard Sparrow brief part, and Amar
7 Bumb will be briefing part, part of the environmental
8 issues. We have several contracts going on, so the
9 performance-based contract generally Howard will
10 speak to and then Amar will talk about one of the
11 trap ranges we're investigating.

12 We'll go through the agenda. First I want to go
13 around the table and introduce the official RAB
14 members, and then we can go around the outside and
15 introduce other parties who are here today. We'll go
16 to Lorraine. Amar is running the projector.

17 MS. WIRGES: Lorraine Wirges, RAB
18 member.

19 MR. FOTHERGILL: Caryl Fothergill, RAB
20 member.

21 DR. ROKKE: Doug Rokke, RAB member.

22 MR. ANDERSON: Jack Anderson, RAB
23 member.

24 MS. RAWLINGS: Deborah Rawlings, RAB

1 member.

2 MR. HILL: Chris Hill, Illinois EPA.

3 MR. TIMM: Jay Timm, Illinois EPA.

4 MR. JOHNSON: Pete Johnson, drainage
5 commissioner and farmer.

6 MR. WUBKER: Travis Wubker, APTIM.

7 MR. NOREEN: David Noreen, just an
8 interested citizen.

9 MR. VENCES: Eric Vences, Village of
10 Rantoul.

11 MR. HINTON: Dave Hinton, Rantoul
12 Press.

13 MR. HANNIGAN: I'm Patrick Hannigan.
14 I'm a BRAC realty specialist with the Air Force.

15 MS. KOZAK: Donna Kozak, Booz Allen
16 Hamilton. I support the Air Force.

17 MR. APPLEBEE: Kevin Applebee with
18 Willow Pond.

19 MR. SPARROW: Howard Sparrow, APTIM.

20 DR. BUMB: Amar Bumb, APTIM.

21 MR. CARROLL: Welcome to you folks who
22 haven't been here before. We're glad to get as much
23 public participation and other interested parties as
24 possible to the RAB. That's always a good thing.

1 We'll go through the agenda. We'll look at
2 action items, environmental cleanup, property
3 transfer, public comments, and then meeting wrap-up
4 and then we'll adjourn. Of the action items, the
5 first one is, as usual -- Max, is it?

6 MR. TWUM: Yes.

7 MR. CARROLL: Have a seat at the
8 table, Max. Glad you're able to attend. Have a name
9 tag for you there. If you would, introduce yourself
10 for the record.

11 MR. TWUM: I'm Max Twum. I live near
12 Rantoul and I work for Illinois EPA.

13 MR. CARROLL: Thank you. Welcome.
14 Okay. We're here at the action items to approve the
15 transcripts from the May 18th, 2017, meeting.
16 Everybody had a chance to look at those?

17 MR. ANDERSON: Approve.

18 MS. RAWLINGS: Second.

19 MR. CARROLL: All right. All in
20 favor?

21 (RAB members in favor voice aye.)

22 MR. CARROLL: Any opposed?

23 (None noted.)

24 MR. CARROLL: None. Okay. Motion

1 carries. Transcripts are approved.

2 Second action item is I was to provide a summary
3 of newspaper archives on the CS gas, a teargas
4 incident that happened in 1987 in Urbana. I'll just
5 briefly go through that. We went to the Urbana
6 library and the newspapers and found some things,
7 archived articles at the Champaign Public Library and
8 then we went to the Urbana Courier. Well, we didn't
9 go there. At the Urbana Free Library we found
10 archived articles from there.

11 Then went to the Urbana Fire Department and
12 contacted the University of Illinois Police
13 Department and interviewed the records supervisor, Ed
14 Cavanaugh. There was no police report of the
15 incident from there.

16 There's a person named Greg Abbott who was one
17 of their employees who said the call came in, and he
18 recalled that it was considered at the police
19 department a minor issue. That's what he told us.

20 The newspaper articles are out there on the
21 table. I hope you all got a copy of those. Kind of
22 the synopsis, there were two articles, one on the
23 15th of October 1987 titled "Workers discover 4
24 liquid-filled containers buried in east Urbana," and

1 it was Bell Illinois Telephone workers and they
2 discovered 4 two-gallon liquid-filled containers
3 buried on the property of the U.S. Army Reserve
4 Center. That was 2001 East Main Street. An
5 investigator from the state SUPERFUND team was
6 scheduled to arrive that afternoon.

7 The follow-up article on the 16th, the day
8 after, "Specialists remove jugs of riot-control gas."
9 U.S. Army hazardous materials specialists removed the
10 four jugs that were discovered on Thursday. Illinois
11 EPA stated one container was three quarters full of a
12 white powder. The other container had the same
13 substance in it but was combined with groundwater and
14 the other two were empty.

15 The article says the substances were removed by
16 the 69th Explosives Ordinance Disposal Group of
17 Granite City, and the Army Reserve was asked to
18 determine if there could be other containers buried
19 at the site. It quotes a Bob Casteel, a spokesperson
20 for Illinois EPA, stated that the contents could only
21 be lethal when inhaled in an enclosed room and in
22 heavy doses.

23 Important to us is that there was no mention of
24 these containers ever having come from former Chanute

1 Air Force Base. If anybody else needs a copy of the
2 article, we have copies up here.

3 DR. ROKKE: This morning I talked to
4 the aide of the President of the United States. He
5 has directed me to provide you with the after action
6 report, required action by the U.S. Air Force to
7 clean up the four fifteen gallons, so sixty gallons
8 of chemical weapons that we did recover on the site.
9 Mr. Casteel was never involved at any time. Never
10 heard of him. Never met him. He was not on-site.
11 We did identify, verify, that the chemical weapons
12 did come from Chanute at that time.

13 MR. CARROLL: Do you have proof of
14 that because we looked in those archives and there
15 was no indication --

16 DR. ROKKE: Sir, this is the actual
17 report as directed by the President of the
18 United States for me to give to you to require the
19 U.S. Air Force to take formal action on this. This
20 is the actual action report prepared by myself with
21 our whole team.

22 Our team is all sick. Medical care has been
23 denied and delayed effectively and deliberately
24 because the Air Force and the Army denied that it

1 happened. And the directive from the President's
2 aide this morning was very clear, to present you with
3 this after action report that we wrote, that I wrote.
4 It involves everybody who was involved, what we
5 found, what we did. And the other thing, too, is we
6 were put under White House protection today as
7 whistle blowers to ensure that no retaliation
8 continues to happen and has already happened here.

9 MR. CARROLL: Do you have the name of
10 the person you talked to?

11 DR. ROKKE: They just said to give
12 that to you and make that a formal entry and that the
13 Air Force should coordinate with the remaining live
14 members of our team. Another member of our team died
15 last Monday.

16 MR. CARROLL: I'm not sure, Dr. Rokke,
17 why you haven't provided this to me. I haven't read
18 it yet, but I'm not sure why you haven't provided
19 this to us in the past. Does this tie the chemicals
20 to former Chanute Air Force Base?

21 DR. ROKKE: Yeah. The chemicals came
22 from Chanute. The individuals picked up the
23 chemicals here at Chanute. They took them down there
24 to use on the rioters on campus during the riots in

1 March of 1970, and so the individuals who were
2 involved in using the chemicals are here in the
3 community. We have talked to them. They fear for
4 retaliation and everything that happened.

5 MR. CARROLL: Can you provide me with
6 the documentation of the request from the President's
7 office to --

8 DR. ROKKE: He said the President's
9 aide asked me to give that to you because that
10 verifies what happened, what we did, who was
11 involved, and what was recovered.

12 MR. CARROLL: Thank you for that
13 information. We'll look further into that.

14 DR. ROKKE: And denied medical care.

15 MR. CARROLL: As you know, medical
16 care and those types of issues, exposure issues, are
17 not the concern of the RAB.

18 DR. ROKKE: No, it's the concern of
19 the U.S. Air Force to notify everybody of the known
20 toxic exposures and what happened. It doesn't fall
21 under RAB but it falls under environmental.

22 MR. CARROLL: It's not any of our
23 responsibilities in here. We are focused on the
24 cleanup of the environmental contamination at former

1 Chanute Air Force Base.

2 DR. ROKKE: Well, that contamination
3 came from Chanute, and we were the ones that cleaned
4 up. Casteel was never involved.

5 MR. CARROLL: We did a lot of
6 research. We did a lot of interviews. As you know,
7 I did previous interviews before this. This research
8 was my last outstanding item, and we briefed that at
9 the last RAB. I think everybody was shaking their
10 head up and down yes, that sounds like all you need
11 to do, and then you bring this up to me as dated and
12 written by you in 1987 and I don't know why you
13 haven't given this to us in the past.

14 If this has some concern about chemical
15 contamination at the former Chanute Air Force Base
16 and you haven't given that to me in the past, that's
17 a concern that we have with you of not providing us
18 that information.

19 DR. ROKKE: When I attempted to
20 provide this at a RAB meeting, this young lady
21 charged a personal attack and then they physically
22 attacked me and threw me out of this room.

23 MS. RAWLINGS: Doug, could we let
24 Lorraine speak, please?

1 MS. WIRGES: I think that this is OBE,
2 overcome by events, and I think that we should
3 proceed on.

4 MR. CARROLL: Okay. Anybody else at
5 the table want to move on?

6 MS. RAWLES: Yes, please move on.

7 MR. CARROLL: Okay. All right. Next
8 slide. So we'll get to the environmental cleanup and
9 property transfer updates. Howard can brief the
10 environmental cleanup that's a part of the
11 performance-based contract that CB&I, now called
12 APTIM, is conducting.

13 MR. SPARROW: Thanks, everybody. My
14 name is Howard Sparrow. I'm the project manager for
15 Aptim Federal Services. As you know, Paul just
16 mentioned the name has changed again for the second
17 time for our contract, but we're still the same
18 people, we're still doing the same work, and we're
19 here to continue on with the performance-based
20 contract.

21 I'd like to apologize to the RAB. At the last
22 meeting I was out of the country and not able to
23 attend the RAB meeting, but it's good to be back here
24 in Rantoul and be here at the RAB meeting.

1 I'd like to brief on, first, the
2 performance-based contract project that you are
3 familiar with that we've been working at for the last
4 eight or nine years on-site here, fifty-seven sites
5 that we've been continuously doing the cleanup
6 efforts for and give you a status update on those
7 sites.

8 We're getting to the endgame here. We're
9 getting to where most of the sites have been cleaned
10 up and we're down to just a few sites remaining.

11 I'd like to point out since the last RAB
12 meeting -- first I'm going to take this a little bit
13 out of order because there are some significant
14 accomplishments that I'd like to point out and I'd
15 like to talk about these sites here.

16 Since the last RAB meeting, we have five
17 additional sites for which we have met the cleanup
18 goals and the confirmation sampling goals and are now
19 in the process of doing the final closure of those
20 sites, the regulatory reviews, final approvals, and
21 closures of those sites.

22 So the five sites that we had, there was one
23 site that was over by the mechanics station over here
24 that the Village of Rantoul owns. It was a small

1 site that we had TCE. That cleanup is now complete.
2 There was a small site that was what was called a
3 non-CERCLA site. It was a former gas station that
4 was over there. We've completed cleanup of the
5 remaining fuels that were in that site.

6 There was a site in the middle of the airfield
7 there that was a former Nav-Aide Station, and then
8 that site has been completed. The last site, Amar, I
9 think was over here. It was a former bladder area
10 where they stored some fuels over in that area
11 previously.

12 DR. BUMB: One more, the SS035.

13 MR. SPARROW: I'm sorry. SS035 right
14 here, one site. I think the waste hauler site. If
15 you recall the far end, there was some chlorinated
16 solvents over there. That's been remediated, and
17 then we did the confirmation sampling on that. So
18 five additional sites basically off the list. So
19 that's a big accomplishment. Each site is important
20 for us to continue to clean up the base here.

21 Since that time we have nine remaining sites on
22 the base here to get cleaned up. So we're down from
23 fifty-seven to nine sites, and this year we came back
24 out at seven of those sites and we did additional

1 remedial actions to be able to continue with the
2 bioremediation. So we're getting close, we're
3 getting those way down to almost cleaned up, but
4 we've got a little bit more to go to meet the
5 remedial goals and then do the confirmation sampling
6 at those sites.

7 We also conducted just this October on the
8 remaining nine sites additional sampling to go out,
9 collect the groundwater samples, and then verify
10 whether we've met the goals at those sites. So
11 before we had fourteen sites. Now we're down to nine
12 sites. We keep whittling the numbers down.

13 The one site, this site that was the gas station
14 site, ST081, which was what we call non-CERCLA, it
15 was a fuel site, a petroleum site, we did get final
16 formal approval from Illinois EPA. That one has
17 reached its closure goal.

18 We also have been working with the U.S. EPA in
19 obtaining what is called Operating Properly and
20 Successfully for nine sites, and that is basically
21 the documentation that U.S. EPA comes in and reviews
22 prior to property transfer where we haven't quite
23 gotten to the final closure but the remedies we have
24 are working, they're in place, and it is going to

1 reach its goal as intended but it allows the Air
2 Force to be able to go forward with the transfer of
3 that property. That's been a two to three year
4 process that we've been working with U.S. EPA,
5 scrutinizing those sites. We did get approval from
6 U.S. EPA for nine sites to be able to determine that
7 those are Operating Properly and Successfully, and
8 now the Air Force can continue with the transfer.

9 There are two remaining sites for which the U.S.
10 EPA will also have to review for OPS determination.
11 That's the fire training area site and one site
12 that's beside that. These two sites are still going
13 through the OPS review process.

14 Also, in review of that, the U.S. EPA wanted to
15 go back and do what's called an Explanation of
16 Significant Differences at Building 995. When we
17 wrote the Record of Decision, they wanted to write
18 some additional language in that to make sure that we
19 have restrictions in place as an interim measure to
20 make sure that no one can go down and occupy that
21 building.

22 We did write that Explanation of Significant
23 Differences and went through the approval process for
24 that. Once that was complete, U.S. EPA finally

1 granted the OPS determination. The main point of
2 that is it allows property transfers to continue for
3 the Air Force.

4 This is our chart that we've been using
5 previously, and I do want to add, I mentioned that we
6 now have nine sites remaining. We did sampling back
7 just in October, a month ago. We sat down with the
8 results of that sampling with Illinois EPA this
9 morning. Of those nine sites, five additional sites,
10 we've got agreement that they have met their initial
11 cleanup goal and that we're going into the final
12 monitoring phase of that.

13 That's five more sites that are moving towards
14 its final closure. That gets us down to four active
15 sites that we have left remaining. Three of those
16 sites are very, very close. They're almost there,
17 not quite there. The one site, the Building 995, is
18 still a challenge. We continue to work at Building
19 995. Yes, sir.

20 MR. TWUM: I'm wondering, the sites
21 that have had closure, you said after bioremediation
22 there was no residual impacts remaining. I'm
23 wondering, what were the contaminants of concern?

24 MR. SPARROW: There are various

1 contaminants mostly that were chlorinated solvents in
2 the groundwater that we've remediated. Several of
3 them had fuel components, benzene, in the groundwater
4 that was remaining. Those were the primary
5 contaminants that we've been dealing with for the
6 last few years here.

7 DR. BUMB: Chlorinated solvents.

8 MR. SPARROW: Chlorinated solvents.

9 It was primarily used as a vapor degreaser. When you
10 have plane parts or even car, automobile, where
11 they're working on the engines and stuff, they use
12 that to degrease the parts off of that.

13 So we've got this chart here. You can see the
14 nine sites. Actually, now we have five more of those
15 sites as of this morning, five more of those that are
16 in the next phase of site closure. Again, good
17 progress on-site. Continuing to get to cleanup.
18 We got to get all of those sites and all of these to
19 the green, but we're still working hard at it.

20 This was the non-CERCLA site, the underground
21 storage tank. This is the last time you're going to
22 see this slide. We're going to drop this slide.
23 It's all green. There were five sites. All of those
24 have reached closure now.

1 We do plan to continue on for 2018 particularly
2 those four sites that we've got remaining. We'll be
3 doing, again, additional monitoring. We do it twice
4 a year, spring and fall. Then we will also go back,
5 based on the results that we get, we will do
6 additional treatments at those sites based on
7 whatever our technology people tell us to do at those
8 sites. So it's been proven successful. We continue
9 to work at it and get one site at a time closed here.

10 MR. BUMB: One clarification. Those
11 five sites will still be monitored for another year
12 or so and the confirmation that it remains below the
13 cleanup goals.

14 MR. SPARROW: Once we get to our goal,
15 we still have to monitor them for a year, year and a
16 half, to collect more samples and make sure that it
17 stays clean. I did want to also brief a site. I
18 think we've --

19 DR. ROKKE: Before you go on, on the
20 northern fence line there where the gas stations were
21 and the maintenance area, has there ever been any
22 soil analysis determined if there was any migration
23 off of the base on the northern fence line there?

24 MR. SPARROW: Amar, you probably know

1 that answer. I know we did additional investigations
2 over in this area.

3 DR. BUMB: Before we got involved, Air
4 Force had URS do the soil sampling, and they did not
5 identify that there was any impact to the soil. When
6 they take out USTs, they did take out some soil
7 associated with that beyond the storage tanks. So
8 after they took it out, there was no contamination
9 left in the soil.

10 DR. ROKKE: I guess the question is,
11 is there soil samples done outside of the fence
12 line --

13 DR. BUMB: That I do not know.

14 DR. ROKKE: -- to see if there was any
15 contamination?

16 MR. SPARROW: There were step-out
17 samples from the gas station, so there was
18 delineation in all the directions around there.
19 Whether it crossed the fence line or not we're not
20 sure at this point.

21 DR. ROKKE: Would it be possible for
22 us to take some soil samples?

23 MR. SPARROW: That site has been
24 closed. It's closed. It's done. All the samples

1 have been taken. It's gone through the scrutiny of
2 all the agencies for review so that site is closed.

3 MR. TWUM: So you're not concerned
4 about off site contamination?

5 MR. SPARROW: No, no. I'm saying the
6 process for investigation of that site, it went
7 through the full CERCLA process which requires you to
8 step out and already provide the data. There's
9 already samples that were taken that show that it met
10 the cleanup requirements in all the directions, both
11 soil and groundwater.

12 So the only thing he's asking, did it go over
13 the fence. I don't know where the final confirmation
14 sampling was. I don't know how far. We would have
15 to go back and research that. That must have been
16 probably ten years ago when that was done.

17 DR. ROKKE: Could you please do that
18 and find out if any contamination --

19 MR. SPARROW: It's in the record. You
20 could go to the Administrative Record. That site was
21 investigated in 2004. All those documents are there
22 on the Administrative Record. Go look. They're
23 there.

24 MR. CARROLL: Chris was also here at

1 the time and he may have some input, too.

2 MR. HILL: If it's gone through the
3 process, it's all been reviewed, if the data didn't
4 lead you to go off site, we're not going to go off
5 site. That's all in the record. I mean, if it
6 wasn't there then it's not going to be there now.
7 It's not that the Air Force doesn't go off site. I
8 think you're probably getting ready to see a
9 presentation on a site where you do sample off site.
10 So there's not some blanket issue where --

11 DR. ROKKE: Are you saying there is no
12 evidence of any contamination north of the fence
13 line?

14 MR. HILL: From that site, no, I don't
15 think so. I mean, I'd want to review the
16 documentation to make sure of that.

17 MS. KOZAK: Right. I would add, too,
18 the Air Force doesn't stop at the fence line if there
19 appears to be contamination going beyond that. We
20 start at the source, which was the gas station on the
21 base, and as we stepped out, if it went past the
22 fence line we would have continued sampling. The
23 question is this was done so long ago that without
24 going back and looking at the report we just can't

1 tell you off the top of our heads did it go that far
2 or not.

3 MR. HILL: Right.

4 MR. SPARROW: But we do know, if it
5 didn't meet the cleanup criteria, they would have
6 done the step out and that they would have confirmed
7 that there's no further contamination moving from
8 that source further out.

9 DR. BUMB: Going forward, there is no
10 issue.

11 MR. HOWARD: I'd like to move on for
12 the sake of time because there's a number of other
13 things to cover. I did want to discuss the Trap
14 Range 1. This is a site that was discovered in an
15 aerial photograph. I think this photograph is
16 vintage of early 1920s, and you can see in this
17 photograph there is a trap shooting station here.
18 It's clearly identified in that photograph.

19 The Air Force as a separate contract got us to
20 go out and do some additional investigations on this
21 site to determine if there are any materials still
22 present in the soils that would be a result of this
23 trap range. The trap range was, like I said, only
24 operated for a few years in the 1920s.

1 We did complete an electromagnetic survey of
2 that site. I think that was briefed to the RAB at
3 the last RAB that we surveyed if there were any
4 anomalies under the ground and then use that
5 information to go out and do samples of the soil.

6 If you go to the next slide. Go to the next
7 slide, Amar. I want to point out, this is Veterans
8 Parkway and Maplewood Drive. The trap house was
9 located right in this area with the shooting stations
10 coming off. This does go off the Air Force property.
11 The Air Force property boundary was right here. At
12 the time there was a fence line there. On that
13 property there were some wastewater treatment
14 facilities. They're shown in some dark shadows in
15 here and some other activities. The roadway has been
16 relocated several times on this property. Again, a
17 section of property that's a hundred years old.

18 We did go out and do additional sampling both
19 for lead that would have been from lead shot, as well
20 as the PAHs, polynuclear aromatic hydrocarbons, and
21 those would have been from the tars that are pressed
22 into the pigeons that they shoot or the targets that
23 are shot in the trap range.

24 We did sample this back in June. I think we

1 collected samples from forty-five locations from this
2 site. There were some detections of lead in this
3 site here. They're shown generally in these red
4 dots, red triangles that are shown in this area, as
5 well as up here. There were some detections on the
6 properties that are basically south of Veterans
7 Parkway, as well as some that are on the private
8 property in the north. Some of that property is
9 owned by the Village of Rantoul and some of that is
10 private property as well.

11 We also sampled for the polynuclear aromatic
12 hydrocarbons. There was only one small exceedance
13 that's down over in this area. Basically at this
14 point we've identified some areas of concern, some
15 constituents above action levels, and this site will
16 go through the CERCLA process, the same process we've
17 been going through with all of the sites. So there
18 will be additional remedial investigations. There
19 will be some studies to determine what to do, and
20 then there may be eventually remedial actions to do
21 that cleanup process.

22 MR. TWUM: The affected property
23 owners, were they notified?

24 MR. SPARROW: The property owners have

1 been notified. They did sign access agreements for
2 us to be able to go on to test that property. So,
3 you know, we're coordinating with the property owners
4 as we go forward. I think at this point I'm going to
5 allow Amar Bumb to brief the Trap Range 107. He has
6 more familiarity with that site. I just don't have
7 the technical background on that particular site.

8 DR. BUMB: This was awarded as a
9 separate contract, which I've been managing. I'm
10 also supporting Howard on the performance-based
11 contract. So I'm working on all the sites, but in
12 different roles and different things.

13 This one we have been briefing for the last
14 couple of RAB meetings. We did a number of
15 samplings, starting in May 2016, and the last
16 sampling we did was in March of 2017. So there was
17 sampling done there. There are some small areas
18 where we do have lead and PAHs above action levels.
19 The report for that is under Air Force review right
20 now.

21 What's planned in the future is there is going
22 to be an Action Memorandum which the Air Force is
23 going to review. There will be a work plan
24 developed, and we are targeting early spring for soil

1 excavation at this particular site. The boundaries
2 of the soil excavation, you can see there are small
3 areas, a little area here on the playground and then
4 this is the golf course area. Little scraping here,
5 six inches, six inches, and the deepest one here is
6 about four feet in this little area. So that's all
7 going to be done next spring when the weather clears
8 up.

9 After that is done, then we will go through a
10 CERCLA process and look at the remaining soils and go
11 through that process and go through the proposed
12 plan. We are expecting no further action after the
13 soil is excavated and there will be a Record of
14 Decision signed to close that particular site after
15 the excavation is done.

16 There is another one which we are working on
17 which we were awarded just this summer. Yes.

18 MR. ANDERSON: I got a question about
19 the trap range. So you're just going to dig up those
20 areas that are kind of boxed in?

21 DR. BUMB: That's right.

22 MR. ANDERSON: And dispose of that
23 soil and replace it?

24 DR. BUMB: Yes.

1 MR. ANDERSON: And then go back and
2 test again to see?

3 DR. BUMB: No, because we are bringing
4 in clean soil.

5 MR. ANDERSON: Once you do that,
6 you're done?

7 DR. BUMB: Yes. Actually, we took
8 samples at a hundred and sixty plus locations.
9 Number of samples is much more because we are taking
10 surface soil, two feet, and four feet, six feet deep
11 and so on. So the number of samples are large. One
12 hundred and sixty locations we sampled. You can see
13 reds are the ones which exceed the action level, and
14 then they're all bounded by the blue dots, which are
15 the clean locations. We always excavate to the clean
16 locations.

17 MR. ANDERSON: Thank you.

18 MR. TWUM: Does the Village have
19 groundwater ordinance usage?

20 DR. BUMB: This one has not impacted
21 groundwater. It does have an ordinance where
22 groundwater in the Wisconsin cannot be used.

23 MR. CARROLL: I think they actually
24 have an ordinance against drilling wells in the city

1 limits, Village limits. They no longer have that?

2 MR. ANDERSON: It's a long story.

3 MR. APPLEBEE: I know with the
4 exception of irrigation systems because I have wells
5 for my irrigation.

6 MR. CARROLL: Domestic use, yes.

7 MR. ANDERSON: I had one drilled on my
8 property within the limits, but there are exceptions.
9 As a general rule, no, they don't want everyone
10 having it in their backyard.

11 MR. TWUM: For potable use of the
12 groundwater?

13 DR. BUMB: No, no potable use. This
14 is an emerging contaminant Air Force wanted us to
15 look at, and reason for looking at 1,4-Dioxane is Air
16 Force in their data search found that 1,4-Dioxane may
17 have been used at certain times as a stabilizer for
18 the trichloroethylene (TCE) which has been used at
19 the site.

20 So they wanted to look at that and see if the
21 source of the TCE had 1,4-Dioxane in that material
22 because we do have sites here which had TCE. So we
23 looked at a number of sites, and we sampled at
24 twenty-eight locations this last month at nine sites.

1 Results are just coming in. We have not looked at
2 those results yet. Once we get those through, we
3 will be reporting that in the next RAB meeting.

4 We'll look at those results, and based on that
5 there may be a further investigation or if the
6 1,4-Dioxane is not a problem then we'll continue with
7 our performance-based contract, what we are doing
8 closing those sites as they get cleaned up. I'm
9 going to hand it over to Paul.

10 MR. CARROLL: The chemical warfare
11 training area site inspection has wound up.
12 Basically we've gotten done with all the field work.
13 Of course the original objective was to determine
14 presence or absence of chemical agent training
15 components and contamination resulting from those
16 former training activities. I think you all are well
17 aware of all those activities. We've been briefing
18 them for a couple of years now.

19 November 2016 we did the geophysical survey, and
20 then our contractor did an intrusive investigation in
21 April of 2017. This site location is right here
22 where this little purple circle is. It's about a
23 three acre circle there where that activity occurred.

24 They found anomalies there. They dug up a

1 hundred anomalies, visibly inspected those anomalies,
2 and no evidence of former training activities or
3 chemical agent training components were found.

4 Next slide shows a picture. It's probably
5 better on your handouts, but basically what they saw
6 were sewer and water piping. There was one 50
7 caliber spent cartridge there that we found that was
8 not dangerous. It didn't have anything in it.
9 That's all they found on that site.

10 So I had briefed that before, and what we did in
11 follow-up to that is we went in and sampled the soil
12 and took thirty-five soil samples, looked for
13 chemical agent, chemical agent breakdown products,
14 volatile organic compounds, metals, and explosives.
15 So at all thirty-five locations, all of those sample
16 results were non-detect for the chemical agents.

17 Then we looked for VOCs, metals and explosives,
18 and those were either non-detect or below project
19 action levels, which are screening levels that we
20 used. So that pretty much closes out the field work
21 part of that site. They're working on the final site
22 inspection report now. The Air Force will get that
23 at the end of this month and it will go to Chris Hill
24 sometime early part of 2018, probably January.

1 Okay. That's the good news there. Then, of
2 course, the Village is wanting the clearance of that
3 site for future development, and we'll be able to
4 give that to them once the approval letter from Chris
5 comes in. We expect that early in 2018.

6 More discussion about emerging contaminants,
7 because we've still been doing some work on looking
8 for PFOS and PFOA. We call the big group of those
9 chemicals PFAS (formerly referred to as PFCs), and
10 I've been briefing it as products from the aircraft
11 firefighting foam that the Air Force used to train
12 here on the base.

13 So what we did was we went out and looked at six
14 additional areas. That site inspection was done in
15 late 2016 and February and March of 2017. So here
16 are the locations where these samples were taken. Of
17 course, as you remember, we've briefed the fire
18 training area that we did a lot extensive sampling
19 back in 2014, 2015, and did find significant
20 contamination in the shallow groundwater there.

21 We actually went down into the Illinoisan
22 aquifer, which is the aquifer that a lot of the folks
23 use for their drinking water wells, private drinking
24 water wells, and did not find it in the Illinoisan

1 aquifer in that location in that area.

2 So based on the preliminary assessment, all of
3 the historical information that we looked at,
4 interviews, what have you, we determined that there
5 were six, I believe, additional sites that we needed
6 to look at. That's where we did those
7 investigations. We drilled at least three wells at
8 each site. We were very successful in finding PFCs
9 at almost all of those locations. So there are hits
10 of the perfluorinated compounds in every one of those
11 locations with the exception of this location right
12 here. As kind of a synopsis of where we've got
13 perfluorinated compounds in the Wisconsinan
14 groundwater -- that's the shallow groundwater --
15 we're over here at the fire training area, the hose
16 pad which is adjacent to that. The old wastewater
17 treatment system that probably a lot of you remember
18 was here just across from the airplane on Century
19 Boulevard there, we found them there.

20 Building 32 is called a crash station where the
21 crash trucks were at, and we found it there. We did
22 not find it at the aircraft washrack. Hangar 1 is
23 where, I believe, Bell Helmets was there for a long
24 time, and Rantoul Products was there before them. We

1 found perfluorinated compounds there and at the fire
2 station, of course.

3 We know that they did extensive training down
4 here. A lot of these other sites, we're finding at a
5 lot of our bases the fire trucks had AFFF on them.
6 They would calibrate those once or twice a week.
7 What they would do is just send a little shot of AFFF
8 water out onto the grass, grassy areas or whatever
9 around where they park their fire trucks. So that's
10 where we're finding pretty well all over our Air
11 Force bases.

12 DR. ROKKE: Again, in addition the
13 other area, as I said before, that we did the
14 training was along the runway, the east-west runway.
15 So, again, in that area, just off of the crossroad,
16 the north, south, east, west runway, that whole area
17 is where we did the training for emergency rescue and
18 recovery and NBC training in that area. So that
19 started in the early eighties and it continued up
20 until the base was closed.

21 MR. CARROLL: Can you confirm AFFF was
22 used in that training?

23 DR. ROKKE: It was just part of our
24 everyday training that we did the stuff. It was in

1 the records and all the training documents and the
2 common task manuals. But other than that, we did it
3 and that's it. It's like all the NBC training we did
4 in preparation for Desert Storm all over the base.

5 MR. CARROLL: Yes, sir, Caryl.

6 MR. FOTHERGILL: I can remember that
7 area up there by Hangar 1, that was the metal school
8 and it used to be the fire school before they got
9 their new facility built.

10 MR. CARROLL: Yes.

11 MR. FOTHERGILL: And I can remember as
12 a member of the 3340th group, we would all, no matter
13 what school we was in under the 40th group, we would
14 assemble out on the flight line side of that hangar
15 for a fire demonstration training once a year.

16 MR. CARROLL: Yes. Those are the
17 areas, I haven't pointed out to you today, but there
18 were five of those fire training demonstration areas.
19 Three of those were up here. We did confirm releases
20 of PFCs at those locations.

21 MR. FOTHERGILL: What they would
22 basically do, they had a container, like, I'd say, a
23 quarter of a fifty-five gallon barrel placed there
24 with fuel in it, set it on fire, and they would

1 extinguish the fire.

2 MR. CARROLL: That confirms what we've
3 heard elsewhere.

4 MR. FOTHERGILL: And they would also
5 go right in the crowd and just pick anybody and go up
6 and do it to show everybody you can do it, you know.

7 DR. ROKKE: I mean, when we were doing
8 this stuff in preparation again, the same thing.
9 There's the training report prior to Desert Storm.

10 MR. CARROLL: Thank you.

11 DR. ROKKE: But it was done all over,
12 so we used all of this stuff extensively, especially
13 the firefighting foam. When we had crash rescue, the
14 idea was to demonstrate what was happening to where
15 we couldn't see what we were doing to get in and work
16 like in blacked out conditions.

17 MR. CARROLL: I don't see firefighting
18 foam mentioned in here. Of course, I haven't looked
19 through the whole thing. It looks like you're
20 talking about NBC.

21 DR. ROKKE: We didn't separate it all
22 out.

23 MR. CARROLL: We're talking about
24 firefighting foam here.

1 DR. ROKKE: Pardon me?

2 MR. CARROLL: We're talking about
3 firefighting foam here.

4 DR. ROKKE: That's exactly what I'm
5 talking about.

6 MR. CARROLL: Okay.

7 DR. ROKKE: Firefighting foam was part
8 of the training.

9 MR. CARROLL: Does this contain
10 information about firefighting foam?

11 DR. ROKKE: No, it's not in there.
12 This is the training activities we did and what we
13 were involved in.

14 MR. CARROLL: Okay. You all ready to
15 move on?

16 MS. WIRGES: Yes.

17 MR. CARROLL: So the site inspection
18 results, we've kind of talked about that. The
19 criteria that we look for for PFOS and PFOA right now
20 are the EPA Lifetime Health Advisory numbers. The
21 EPA issues these numbers. These are pre-regulatory
22 numbers that's kind of a watch list that EPA issues
23 for drinking water sources.

24 They issue these, and they're based on

1 toxicological studies so they're pretty defensible
2 for EPA; although, they don't enforce these levels
3 yet. We understand that Illinois EPA is planning to
4 promulgate their own groundwater standards for PFOS
5 and PFOA within the next year. So that will be a
6 promulgated level that will be a level that the Air
7 Force will need to follow. Sometime in 2018, right,
8 Chris?

9 MR. HILL: Yeah, and it should mimic
10 what is up there, the .07 micrograms per liter. It
11 hasn't gone through the entire process yet, but it
12 looks like that's probably what it's going to end up
13 being.

14 DR. ROKKE: Here's the other part of
15 that report.

16 MR. CARROLL: Thank you, sir.
17 Reiterating, Wisconsin groundwater, it's in the
18 shallow groundwater. It's not in the Illinoisan,
19 which is the second level of groundwater under that.
20 It's not in the Mahomet. The Village has already
21 done their UCMR 3 sampling for PFCs in their drinking
22 water, and they have not found that there. According
23 to Pete, they went out and sampled each individual
24 well that's here on the base for PFOS and PFOA and

1 did not find it in there either.

2 That's a good news story at least for the
3 Mahomet and for the Illinoisan. Not so good news
4 story for the Air Force in the future for having to
5 address this in the shallow groundwater, which is the
6 same groundwater that all the previous contamination
7 that we've been addressing for the past few years,
8 many years, is.

9 DR. ROKKE: Howard, excuse me. I've
10 got a real concern about that. We've definitely got
11 it in the Wisconsinan aquifer. There's no doubt
12 about that. The extent of it, you're not sure yet.
13 The Wisconsinan aquifer is where we get our water for
14 our crops, our vegetables, our fruit, and everything
15 else.

16 MR. CARROLL: No, sir.

17 DR. ROKKE: The question is what has
18 been absorbed into the garden crops, into the fruit,
19 how far has it transferred off and got into this
20 thing.

21 MR. CARROLL: I'm not sure you heard
22 me, but the answer is no. It's not the source of the
23 water that goes to crops or to people's drinking
24 water.

1 DR. ROKKE: No, I didn't say drinking
2 water. I said when we're growing our vegetables in
3 our field, that Wisconsinan, that's the top layer
4 level for groundwater. So it's flowing in that top
5 water just below the soil. What is the probability
6 of this contamination getting into any of our
7 vegetables, you know, the stuff we're growing in our
8 gardens and our fruit trees and all this in the whole
9 area.

10 MR. CARROLL: Well, if you're outside
11 of any of these areas where we found these
12 constituents, you don't have a concern. We've been
13 told by the health people that even if you have
14 vegetables that's not a concern; although, I don't
15 know if all the studies have been done. Really, the
16 health department people are telling us basically
17 nationwide that the primary concern is ingestion of
18 drinking water with PFOS and PFOA in it.

19 DR. ROKKE: Pete, you're the farmer
20 out here on the land. If we've got contamination in
21 there and that's absorbed into the corn and the crops
22 are then sold and distributed and the crops are used
23 for all over, if we don't know what contamination
24 from the Wisconsinan and ground contamination got

1 absorbed into the crops that were then used and
2 distributed for multiple purposes, we got the corn
3 crops out in your field used for food crops and
4 everything else, correct?

5 MR. JOHNSON: Right.

6 MR. ANDERSON: Are any of these
7 effected areas involving crop grounds?

8 DR. BUMB: No.

9 MR. CARROLL: None of the effected
10 areas have any crops being grown in or near them.

11 MR. ANDERSON: Thank you.

12 MR. CARROLL: We stated that a couple
13 RABs ago that it's at least, I think, a half a mile
14 to the nearest location where any of these crops are
15 being grown.

16 DR. ROKKE: That's not that far from
17 the fire training area. Your first fields are right
18 there. It's just across the field. I mean, the
19 question with the groundwater, we've got everything
20 tiled all over. You've had tiles break under where
21 you've fallen into those tiles during plowing,
22 correct?

23 MR. CARROLL: Doug, I'm not saying we
24 are not going to proceed along an investigation. If

1 Illinois promulgates the regulation, we'll be
2 required to look into, just like we did with TCE,
3 everything else here. We investigate. We do nature
4 and extent. What's there? How far did it go? How
5 widespread is it? We look at the health effects of
6 those. We go through that whole CERCLA process, just
7 like we have for all these other constituents. I'm
8 not saying we're not going to do that.

9 DR. ROKKE: And now TCE has been
10 proven at extremely low levels to be extraordinarily
11 dangerous.

12 MR. CARROLL: We already have the
13 cleanup levels established for TCE in groundwater,
14 and that's the same as the MCL. That's been agreed
15 to. That's a done deal. We're going to that level.
16 Every five years, the other thing we do, every five
17 years we look at any levels that have changed, any
18 health levels that have changed on sites that we are
19 still working on and determine whether or not we need
20 to make adjustments in our cleanups. Congress makes
21 us do that, and we do that.

22 DR. ROKKE: The same thing, we have to
23 extrapolate back to where it was before you guys when
24 you got here and started your cleaning activities.

1 MR. CARROLL: I'm sorry. We do not
2 extrapolate back. I think we've stated that many
3 times in the RAB. We look at contamination as we
4 investigate it. We go forward from there and we
5 clean up the contamination and get that cleaned up.
6 We can't extrapolate back to fifty years ago on
7 contamination.

8 MR. HILL: Groundwater is six to eight
9 feet deep, and you're talking about corn, soybeans,
10 wheat, stuff like that. The roots don't go that
11 deep, you know. I mean --

12 MS. WIRGES: Let's go.

13 MS. RAWLINGS: Move on.

14 MR. CARROLL: Good point.

15 DR. ROKKE: You're going to have a
16 concern whether or not there has to be a warning for
17 where the areas or anything has gone for people that
18 are growing any ground crops to be hesitant. I mean,
19 I don't see any other way around that.

20 MR. CARROLL: Okay. Let's move on.
21 Landfills operations, maintenance, and monitoring.
22 Howard and CB&I have gotten through with their
23 requirements on the landfills. Closed those out.
24 Established the long-term monitoring procedures. Put

1 in place land use controls. Signed RODs, and Howard
2 and his folks are done with that. We have folks from
3 AECOM who are maintaining that and monitoring the
4 landfills.

5 So what we've done since the last RAB, there
6 have been monitoring activities at the landfills,
7 landfill cap inspections, land use control
8 inspections in May, and we found no deficiencies
9 there. The folks that put in the trees, they
10 conducted an inspection of the ET buffer in August,
11 and overall those ET buffers are in good shape but
12 several small areas require re pruning, replanting,
13 and treatment. They were just out here yesterday
14 doing some replanting.

15 I don't know if any of you have driven around
16 there, but they were in there putting new trees in
17 there. Our contractor also collected influent and
18 effluent samples from the Landfill 2 leachate
19 treatment system, that little treatment system we
20 installed to treat the leachate from the landfill for
21 PFCs. The OM&M report has been drafted for Air Force
22 review.

23 All right. This next slide, you might have
24 better luck looking at pictures on your paper.

1 Landfill 2 has complete tree survival in the eastern
2 part of the landfill and the trees are doing really
3 well. The west side has some trees missing and thin
4 areas that will be replanted. I just talked about
5 them replanting those areas. That's as you drive
6 around towards Heritage Lake. You'll look off to
7 your right. Look past all the trees and the creek.
8 We have rows of trees just inside the fence of the
9 landfill that you can see growing there. Those have
10 some little gaps in them.

11 This is Landfill 3, and you can see those trees
12 at Landfill 3 from miles away now. They're thirty
13 feet tall now, so they're doing really well, healthy
14 tree establishment. We've got some borer damage here
15 and there. We called the tree folks who tell us it's
16 nothing major. Nothing beyond what they can handle.
17 No concerns about anything that might be spreading
18 and damaging the entire crop. We'll continue the
19 same kind of things in 2018.

20 Property transfer, the parcels D2, D3, D5, we've
21 been talking about those for a while, sixty-nine
22 acres. They're going to the Village of Rantoul.
23 They include these areas right here and this Landfill
24 2. So it includes Landfill 2 and Landfill 3, and

1 it's got a land use control, environmental covenant,
2 that we worked through Illinois EPA and the Village
3 of Rantoul and finally got that approved.

4 The Finding of Suitability to Transfer is
5 signed. That's the document that we always have to
6 get done. It goes through Illinois EPA, comes back
7 through our legal folks, and gets signed by our
8 director. Then the deed part is planned for
9 hopefully before the end of this year, pending
10 Village of Rantoul approval of the draft deed. So
11 that's about ready to transfer.

12 The majority of the remaining property, the 288
13 acres is acreage that's immediately impacted by the
14 OPS, but we've got 401 acres remaining to transfer
15 here on Chanute. Of that 401 acres, we are planning
16 to transfer, pretty aggressive, planning to transfer
17 all but twelve of those acres this year, this fiscal
18 year. So we have got six separate transfers we have
19 to do, ranging from the Department of Education. The
20 Department of Education property is this property
21 right here for the ATREL Lab. They really want to
22 get their property deed, so we hope to have that.
23 We're writing the FOST on that right now, and we hope
24 to have that to them right after the first of the

1 Building 995 was kind of a problem. What building is
2 that?

3 MR. SPARROW: Building 995 is the old
4 test cells. It's in the far corner. I guess that
5 would be the southeast section. It's fenced in, but
6 it's the old test cells that were down there.

7 MR. CARROLL: That is our difficult
8 site. It's been our difficult site all along. We've
9 known that since the very beginning, and CB&I has
10 done a lot of work to go the extra mile and they've
11 done, I think, probably five excavations there and
12 then lots of injections of different materials to try
13 to get that contamination down. It's been brought
14 down to several times lower than it was originally.
15 It was up around, I think it was, over a hundred
16 thousand parts per billion or more.

17 DR. BUMB: A million.

18 MR. CARROLL: Really, that much?

19 DR. BUMB: Down to about 2000.

20 MR. SPARROW: We've reduced it three
21 orders of magnitude so far, 99.9 percent reduction.

22 MR. CARROLL: We definitely had free
23 product at that site to begin with. That's been
24 addressed by all the excavations, and then the

1 remnants of the TCE and their breakdown products are
2 what they've been working on since then. Talked
3 pretty extensively about that this morning, where
4 they are, and what they still lack to do. They're
5 right on top of it. We've got December of 2020 as
6 their contract end date, and they're really focusing
7 on trying to get that completely cleaned up before
8 their contract ends in December of 2020.

9 DR. ROKKE: The other thing we might
10 consider at the old NBC training site from the CS,
11 because when the CS has, you know, the breakdown
12 products and that's over in your field area where
13 you're doing by where the old field range was, around
14 there, across from the lake, we might want to go and
15 look in there as we use -- I mean, when we were doing
16 NBC training here, we did extensive CS work in what
17 we called the chamber and all that was out there and
18 the byproduct, breakdown byproduct, they do have some
19 concern there. That's an area where he's got corn
20 and beans right now and I'd be concerned with.

21 The other thing I'd like to bring up and ask and
22 I think it's very important, the Air Force has
23 already taken care of some of the buildings now.
24 You've taken care of remediation of asbestos in some

1 of the other buildings. The asbestos tile is
2 breaking up in some of the base housing.

3 I've been into some and looked at them and it's
4 just breaking up and fragmented, like it did in White
5 Hall and all over. I'd like the Air Force to
6 consider, because they did install it, to go
7 throughout base housing, like they did in White Hall,
8 the museum building, and the other ones, took White
9 Hall down, took care of the asbestos first.

10 We did down in Grissom, we took care of all the
11 asbestos and other ones, that the Air Force
12 considers, since they installed the asbestos in all
13 the base housing here, that they work with the owners
14 that go in there and to remediate or secure any
15 broken tiles or cover it up or if they have to retile
16 any of the housing that they do that. We did it in
17 Grissom Hall, already in the other ones. We've got
18 people living in these houses that were sold to them
19 or whatever it was sold to somebody else, but we
20 still have the Air Force's cradle to grave
21 responsibility. So this is a real consideration
22 because I've talked to the people that lived there.

23 MR. CARROLL: I know that over the
24 last few RAB meetings that's been asked and answered.

1 I think that's pretty well a closed matter. The Air
2 Force does not have cradle to grave responsibility
3 for asbestos in buildings. The Air Force has a
4 responsibility, which we've owned up to, with
5 asbestos in buildings that the Air Force owns and has
6 not transferred yet. So that's the difference
7 between what we've done here, what might be an
8 owner's responsibility now for houses or other
9 structures that have asbestos containing materials in
10 them.

11 DR. ROKKE: You can't shift
12 responsibility from the Air Force to the current
13 owner.

14 MS. RAWLINGS: That conversation is in
15 the transcript from the last meeting, Doug.

16 MR. CARROLL: Yes, it's pretty well
17 closed out.

18 MS. RAWLINGS: It would just be nice
19 if we would not have to have some of these
20 conversations over and over again when they're a done
21 deal.

22 MR. CARROLL: Okay. How about action
23 items for the next meeting? Any agenda items? Next
24 RAB meeting is May 17th, 2018. Seems like a long

1 time in the future, but these seem to come around
2 pretty regularly. Twelve p.m., same place. We'll be
3 happy to be here for that and brief more updates on
4 our environmental progress. I guess we need to vote
5 to adjourn.

6 MR. ANDERSON: Move to adjourn.

7 MS. WIRGES: Second.

8 (Meeting adjourned at 1:08 p.m.)

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I, JANET E. FREDERICK, CSR, do hereby
certify that the foregoing is a true and correct
transcript of proceedings had in the above-entitled
matter, taken at the time and date as hereinabove set
forth.

JANET E. FREDERICK, CSR
LICENSE NO. 084-003526