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1	TITTABAWASSEE RIVER, SAGINAW RIVER & BAY SITE
2	Public Meeting on Middleground Island
3	Proposed Cleanup Plan
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11	The Public Meeting,
12	Taken at 300 West Lafayette Avenue,
13	Bay City, Michigan,
14	Commencing at 6:34 p.m.,
15	Tuesday, March 10, 2020,
16	Before Cheri L. Gleyre, CSR-6548.
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1	PRESENTERS:
2	Diane Russell - U.S. EPA Community Involvement Coordinator
3	Mary Logan - U.S. EPA Project Manager
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5	ALSO PRESENT:
6	Stephen Blair - Cameraman, WNEM TV5
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1	Bay City, Michigan
2	Tuesday, March 10, 2020
3	6:34 p.m.
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5	MS. RUSSELL: We've got a lot to cover so
б	we're going to go ahead and get started. We have a
7	nice big crowd tonight and I just want you to know
8	there's a lot of civic activities tonight, so I'm very
9	happy that you chose this one to participate in. So
10	thank you for joining us this evening.
11	Again, tonight we're going to be talking
12	about the EPA's proposed cleanup for Middleground
13	Island, and our project manager for the EPA, Mary
14	Logan, will be going over a few slides here. I do
15	apologize, we don't have audio equipment tonight, so
16	we will do our best to project. If there's something
17	that you missed, let us know, raise your hand. We
18	will repeat that and, you know, do our best to
19	enunciate so you can hear clearly.
20	As you came in we've got we had a fact
21	sheet if you did not get that, and that goes over and
22	explains what we're proposing to do and also gives the
23	times for public comment, so that's all referenced
24	here. I'll remind you of those things tonight.
25	And then we have an agenda. I just wanted

1	to point out this is a typical meeting that EPA will
2	put together but there's one difference. Tonight we
3	actually have a court reporter, so we've got a setup
4	where we're going to record everything that is said
5	tonight so we can post it on the Web for your
б	reference. And also there's going to be a break after
7	we do the presentation and do question and answers,
8	and we're going to go into the public comment portion.
9	And basically the way that that is set up is you can
10	submit a comment orally and the court reporter will
11	record that. The only thing I ask is that if you plan
12	to do that, grab one of these cards so that I can
13	announce in order.

Note that when we're at the public comment 14 portion of meeting EPA will not respond to those 15 16 comments tonight. We're going to wait until the public comment period is over, which ends March 30th, 17 18 and we'll respond to those comments in a document we call a responsiveness summary. So if you have 19 20 questions, go ahead and ask those questions during the 21 question and answer session. We will interact and be able to response to those then, but after the break we 22 23 will not be able to respond because we're assuming 24 that those are oral comments for the court reporter, 25 okay? So if you plan to do that, don't forget to pick 1 up these numbered cards.

2	Well, I did forget to introduce myself, so
3	my name is Diane Russell and I'm EPA's community
4	involvement coordinator, and I'm just going to assist
5	with all of you tonight as you learn more about the
6	site. In addition to folks from EPA, we have some
7	other folks here from the State agency that are
8	available to answer questions. And I see that we've
9	got some folks in the back who are here from Delta
10	College. Welcome. Thank you for coming and learning
11	about cleanups in your community, so thank you very
12	much. And, again, I would like to thank all of you
13	for coming tonight.
14	At this time I'm going to go ahead and
15	introduce Mary Logan, EPA's project manager for the
16	site, to go over what we're proposing.
17	MS. LOGAN: Thanks, Diane.
18	Okay. I don't know that I have the same big
19	voice that Diane has, so again I want to emphasize
20	that if you cannot hear me, please raise your hand,
21	flag me down and I will try to make sure that you are
22	at least hearing most of the content tonight.
23	As Diane said, I am Mary Logan. I am a
24	project manager for the United States Environmental
25	Protection Agency working on a project that we call

1	the Tittabawassee River, Saginaw River and Bay Site.
2	And Middleground Island is a small piece with that
3	site. We are proposing a cleanup plan and we will
4	finalize that cleanup plan after we've evaluated
5	public comments.
6	So tonight I would like to talk about our
7	recommended cleanup action, just lay that out so you
8	know what we're talking about and then give you some
9	brief background information and talk about what we
10	found, findings of the investigations we've done on
11	the island and then discuss the various options or the
12	two options, talk about next steps and then take
13	questions and answers. So that's what we're going to
14	cover in a few slides here.
15	So just to cut to the quick, EPA's
16	recommended cleanup options is where we have found
17	levels of dioxins or furans greater than 250 parts of
18	dioxin in a trillion parts of the soil, or parts per
19	trillion. Those residential properties are eligible
20	for cleanup, and we're proposing to dig that
21	contaminated soil out of those yards, replace it with
22	clean soil and regrow, revegitate the yard.
23	The pictures you see here, we've been doing
24	cleanups along the Tittabawassee River since 2015, and
25	these are some dig and backfill of the Tittabawassee

1	River properties. Now, one of the differences here is
2	you don't see houses in these pictures. In this case
3	cleanups are in the low parts near the river itself,
4	but we have been doing residential property cleanups
5	since 2015. So as an overview Middleground Island, or
6	you'll see in the slides MGI, is part of the larger
7	Tittabawassee River, Saginaw River and Bay Site. The
8	island is in the Saginaw River about 7 miles upstream
9	of the Bay, and you guys pretty much know where you're
10	at, most of you.
11	Cleanups are proposed for those residential
12	properties that exceed EPA's cleanup number. So this
13	figure will give you a little bit of okay, Diane,
14	does it I'll try to talk forward.
15	The Dow plant has existed in Midland,
16	Michigan since the early since 1890's. As part of
17	their processes, like many industries at the time,
18	wastes were released into the river, and so the site
19	that we're investigating includes the lower 24 miles
20	of the lower Tittabawassee River, the Saginaw River
21	and whatever portion of Saginaw Bay contamination may
22	have migrated to. So Middleground Island is in the
23	Saginaw River about 20 or so miles from Midland and
24	the Dow plant.
25	The current use of the island is three-fold

1	really. The south end is largely residential homes
2	and properties. The north end is recreational. Here
3	you are at the Boys and Girls Club. You've got the
4	Rowing Club, Bigelow Park and there's multitask trails
5	and Sugar Trails, and in the middle there's a historic
б	landfill that operated from the 1950's 1956, thank
7	you, to '84 but also the Corps of Engineers operated a
8	facility where they dredged sediments from the Saginaw
9	River, placed them in a facility to get the water out
10	and those sediments were used as daily cover at the
11	landfill, but anecdotally we have heard that those
12	sediments were also made available for fill in certain
13	properties, and so we believe that those contaminated
14	sediments may have been used at some of the properties
15	on the island.
16	So in terms of the residential land use
17	there are about 41 acres of the 175-acre island that
18	comprise residential properties or properties that
19	could be residential in the future. And of those
20	there are about 37 residences on them, and the home
21	construction probably started in the 1950's. So this
22	figure I'm going to come to a couple of times, but it
23	really is oriented this is the north end, this is
24	the south end, so we've got residential, the landfills

and the recreational areas as part of the island

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1 makeup today.

2	We found some dioxins in Middleground Island
3	soil in some screening samples that EPA had Dow take
4	in 2018, and so in 2019 both EPA and the State
5	requested Dow to sample, and they sampled virtually
6	every residential property there's a couple we'd
7	still like to sample as well as most of the
8	recreational properties and some of the commercial
9	properties. We found dioxin in the soil that is
10	believed to have come from early disposal in the early
11	1900's from Dow's plant in Midland. That disposal of
12	sediments moved down the river and ultimately we
13	believe were dredged by the Corps and used as fill on
14	the island.
14 15	the island. Of the residential area we sampled 45
15	Of the residential area we sampled 45
15 16	Of the residential area we sampled 45 different areas we call sampling units, and of those
15 16 17	Of the residential area we sampled 45 different areas we call sampling units, and of those 45 areas sampled, 17 of those exceed EPA's cleanup
15 16 17 18	Of the residential area we sampled 45 different areas we call sampling units, and of those 45 areas sampled, 17 of those exceed EPA's cleanup number and are eligible for cleanup. The levels we
15 16 17 18 19	Of the residential area we sampled 45 different areas we call sampling units, and of those 45 areas sampled, 17 of those exceed EPA's cleanup number and are eligible for cleanup. The levels we found, the numbers are up there, but they range from
15 16 17 18 19 20	Of the residential area we sampled 45 different areas we call sampling units, and of those 45 areas sampled, 17 of those exceed EPA's cleanup number and are eligible for cleanup. The levels we found, the numbers are up there, but they range from 14 parts per trillion to 1,290 parts per trillion.
15 16 17 18 19 20 21	Of the residential area we sampled 45 different areas we call sampling units, and of those 45 areas sampled, 17 of those exceed EPA's cleanup number and are eligible for cleanup. The levels we found, the numbers are up there, but they range from 14 parts per trillion to 1,290 parts per trillion. Dow also sampled the non-residential areas. We would
15 16 17 18 19 20 21 22	Of the residential area we sampled 45 different areas we call sampling units, and of those 45 areas sampled, 17 of those exceed EPA's cleanup number and are eligible for cleanup. The levels we found, the numbers are up there, but they range from 14 parts per trillion to 1,290 parts per trillion. Dow also sampled the non-residential areas. We would compare those to 2,000 parts per trillion and all of

1	number. So that's why we're focusing our cleanup
2	efforts on the residential properties.
3	About 15 acres in total are currently
4	believed to be eligible for cleanup, and of that 15
5	acres there's about 35,000 cubic yards of soil in
6	place, but when we dig it out it will fluff up and
7	become about 46,000 cubic yards that we would have to
8	manage and dispose.
9	So the potential for exposure, why are we
10	cleaning up? You know, the term dioxins refers to a
11	large family of chemicals of similar chemical
12	composition. EPA has concluded that there can be some
13	health effects if you have frequent exposure over a
14	long period of time, so depending on the consistency
15	of your exposure there could be health effects, so we
16	want to prevent that exposure.
17	Now, in the country a lot of exposure to
18	dioxins comes from the food source, but for
19	site-related if you accidentally eat some dirt or by,
20	you know, getting it on your hands and touching your
21	mouth or eating dirty fruits or vegetables you can
22	consume a small amount of contaminated soil. So the
23	proposal is intended to replace that contaminated soil
24	with clean soil in the event that somebody was to
25	accidentally eat their dirt.

1	We really only have two options for cleaning
2	up residential properties and they are in more detail
3	in the fact sheet in here, but it's really cover the
4	material with clean material, cover the contaminated
5	material with clean soil, or dig it up and replace it
6	with clean soil. Really there are no other
7	variations. So that is what we're comparing, and we
8	have proposed alternative two, which is to dig it up,
9	replace it with clean soil and revegetate the yards.
10	Now, whether we pick covering or excavating
11	and backfilling, there are some common things that we
12	would have to do regardless of what we pick. We would
13	have to get property-specific designs, so any yard
14	that needs a cleanup, Dow is expected to do the work.
15	They would work with the property owner and develop a
16	plan for that particular property.
17	The work may require temporary roads on the
18	island and temporary staging areas for the equipment
19	and materials, the soil that's being brought in or
20	staging of the soil that's being hauled out. EPA and
21	EGLE, the State agency that's our counterpart, would
22	be overseeing and monitoring the cleanup to make sure
23	that it's done in the way that it's planned to be
24	done. There would be a health and safety plan.
25	Because we'll be working closely with some of the

25 Because we'll be working closely with some of the

1	properties we want to make sure that the property
2	owners and their families are safe while the work is
3	under way, but also the community and the workers
4	themselves need to be protected while we do the
5	cleanup.
6	And then finally I'm going to talk about
7	this in more detail, but there are some constraints
8	about traffic on the island. I'm sure those of you
9	who live here are very well aware of that, and so we
10	will need a traffic management plan no matter what we
11	end up doing.
12	So when we look at two options, the cover it
13	up or dig it up option, we compare those against
14	effectiveness, implementability and cost. And
15	effectiveness looks at what are the short-term
16	impacts, how reliable and safe is the option in the
17	long term, can we maintain that safety for the long
18	term. Implementability is really about building, can
19	we build the thing, will the community allow us to
20	build it, are the technical components available. And
21	then cost is just cost. So in this case you can see
22	the comparison, and this is a table that's in your
23	fact sheet, but we really see that the recommended
24	alterative costs more and is probably more difficult
25	to build, but we believe it's more reliable in the

1	long term because when you put clean cover material,
2	future homeowners will need to know that cover is
3	there, they will need to agree to maintain it, and so
4	there may be some question about what future
5	homeowners would know or agree to do. So we believe
6	removing the material is more reliable for the long
7	term.
8	So in terms of more detail about
9	effectiveness, we think that both of the alternatives
10	do short-term good, they would protect people from
11	contacting the contaminated soil. Both alternatives
12	also would have short-term impacts. You need
13	construction equipment, you need heavy you know,
14	you'll need trucks bringing in material, you'll need
15	construction equipment around the homes, and that can
16	be disruptive for the people who are here on the
17	island. And then both alternatives would require
18	vegetation to be most existing vegetation would be
19	cleared away. But I do want to say we had a
20	meeting prior to this. I want to emphasize, if you
21	have a mature if you're an eligible property and
22	you have a mature tree or some mature trees, we are
23	able to try to work around saving mature trees. And
24	that's, again, a property-specific decision where if a
25	tree if you want a tree out and if it's allowed if

you want to try to work around it, that can be done. 1 2 But other things, grass and shrubs, bushes, typically 3 are removed and replaced. 4 Now, both alternatives are expected to 5 generate a lot of traffic, and so you'll see the A clean cover would be about 750 6 numbers up here. 7 truckloads of clean soil brought in, and the remove 8 and replace would involve about 1,100 trucks taking 9 contaminated material off the island and then bringing clean material in. So there are effects, both safety 10 11 and emissions effects, from that trucking. 12 There are worker safety concerns, again, 13 working around heavy equipment. We would have a 14 health and safety plan to address that. And then, as I said already, alternative one may be less reliable 15 16 in the long term if people don't understand and comply with the restrictions on the clean cover and leaving 17 18 it in place. 19 So to get the job done, to build it, 20 community acceptance is evaluated after we take public 21 comment, but if a community is opposed to actions, 22 that's something we need to take in mind. We would need agreements from the individual property owners 23 24 that work would be done on their property and some 25 owners we believe might be reluctant to put long-term

1	controls on their property if we put a cover down.
2	EPA and EGLE will need to approve the final disposal
3	location for the contaminated soil, and then traffic
4	management is probably the biggest implementation
5	challenge that we think we're going to see on the
6	island.
7	So, again, going back to the map I showed
8	you earlier, vehicle access, as I'm sure many of you
9	know, is very limited. We have just the two bridges
10	and
11	MS. RUSSELL: That's on page 2 of the fact
12	sheet, if you want an up-close look.
13	MS. LOGAN: So we just have one set of
14	bridges that brings you onto the island. Evergreen
15	Drive is a very narrow road that goes down the island,
16	and currently there are no traffic controls to help
17	you turn on and off Evergreen Drive and to get onto
18	the main road. So there's a lot of constraints in
19	terms of getting vehicles on and off the island.
20	So a traffic-management plan will be an
21	essential part of the program. We intend to develop
22	and follow a traffic-management plan or have Dow
23	develop and follow it, and that would maintain access
24	for the property owners and emergency vehicles. We
25	would have safe access getting on and off Evergreen

1	Drive from the main streets and we would have
2	extensive communication with (inaudible) and
3	stakeholders just to make sure everybody's aware of
4	the plans, they're aware of the truck patterns and
5	what's going on.
6	Additionally, there will be pre-construction
7	evaluations of the current conditions on the island,
8	and if there's any damage as a result of the
9	construction, that will be repaired and replaced as
10	necessary. We will also try to control and manage
11	dust and mud on the roadway during construction.
12	So that's a very high-level overview of the
13	cleanup plan. As Diane said, we are in a public
14	comment period that ends March 30th, so you can submit
15	comments here tonight, you can submit written comments
16	either here tonight or in the mail or e-mail.
17	Once we have the comment period concluded,
18	our next steps will include EPA and EGLE will work
19	together to take a look at the comments. We will
20	evaluate whether we go ahead with the proposed plan or
21	whether we change the plan based on comments. Then we
22	will finalize the plan after we've reviewed those
23	comments.
24	We expect Dow to begin preparing for
25	construction, so Dow is expected to do the work, and

1	they will start working on evaluating different
2	properties in terms of what would be needed for
3	design. They will begin working on traffic-management
4	plans and health and safety plans, and we expect Dow
5	to implement the cleanup as soon as possible. But
6	originally we had hoped that that would start in 2020.
7	We are finding that the water levels are going to make
8	excavation of material probably very next to
9	impossible, so we expect the planning to start this
10	year but construction to start in 2021. And we would
11	work with the different affected owners to see if
12	there are any short-term steps beyond the ones that
13	have already been taken that we would talk about. And
14	that was my last slide.
15	MS. RUSSELL: All right. So thank you,
16	Mary. And I know that was maybe this is the first
17	time you're hearing about this. It may be a lot to
18	absorb. Don't worry if you missed a few slides. We
19	will post this on our website, and our website
20	address, you don't have to memorize that tonight
21	because it's on your fact sheet as well as the agenda
22	at the bottom. So we'll have these slides posted
23	after this meeting so you can refer to that then.
24	So now that you've kind of got an idea about
25	what's going on with what the plan is, what are some

Yes? MEMBER OF AUDIENCE: Is there any talk of the back channel, what's going on under the water there, because that was never dredged? MS. RUSSELL: Never dredged, the back channel? MEMBER OF AUDIENCE: To my knowledge.
4 the back channel, what's going on under the water 5 there, because that was never dredged? 6 MS. RUSSELL: Never dredged, the back 7 channel?
5 there, because that was never dredged? 6 MS. RUSSELL: Never dredged, the back 7 channel?
6 MS. RUSSELL: Never dredged, the back 7 channel?
7 channel?
8 MEMBER OF AUDIENCE: To my knowledge.
9 MS. LOGAN: So are you talking about this
10 side?
11 MEMBER OF AUDIENCE: Yes.
12 MS. LOGAN: Okay. So, as I said and I
13 didn't get into a lot of detail, but this island is
14 part of the bigger Tittabawassee River, Saginaw River
15 and Bay Site, and so eventually we've been working
16 in the Tittabawassee River since 2007, and so
17 eventually we will be evaluating the Saginaw River to
18 see what, if any, actions might be needed. Because we
19 found the conditions on the island and people are
20 living here, we're moving ahead with the project, but
21 there will be sampling of the Saginaw River as we move
22 downstream but not immediately.
23 MS. RUSSELL: And you mentioned before where
24 we think that the source from this material isn't
25 necessarily from the river channel here, right, but

being dredge material which may have come upstream? 1 2 MS. LOGAN: Yes. 3 MS. RUSSELL: So essentially we'll be looking at the river, but this isn't where this dioxin 4 5 came from in this portion of the river here, so we'll be looking at this later, okay? 6 7 Yes? 8 MEMBER OF AUDIENCE: What percentage of our 9 properties contain, 100 percent or the whole yard come 10 out, do you know? 11 So for the people in the back MS. LOGAN: that didn't hear it, and if I misspeak your 12 13 question -- I'm going to try to repeat questions 14 because as you're facing me I don't think these folks 15 can hear. So you were asking what percentage of a 16 vard --17 MEMBER OF AUDIENCE: Yes. 18 MS. LOGAN: -- contains contamination if you 19 have eligible levels? So the way we set up the 20 sampling program is we looked at -- we took one sample 21 that averaged sediment or composited samples from the 22 entire yard. One of the things we might want to evaluate is whether we look at sub areas within the 23 24 yard to get a better picture of that, but right now it 25 represents the entire yard.

1	MS. RUSSELL: Yes?
2	MEMBER OF AUDIENCE: So how much cover if
3	you do the cover option, how much cover goes on versus
4	how much do you excavate down and replace? I mean,
5	that's a big question.
6	MS. LOGAN: Again, for the folks in the
7	back, I think he was asking about what is the cover
8	thickness versus how deeply do you excavate and
9	replace. So for cover we've been looking at the
10	technical document is looking at 1 foot of clean soil.
11	The way we sampled the yards is we initially looked at
12	the top 6 inches, but we've sampled down to 30 inches,
13	and in most cases we would expect to and what we're
14	seeing is in most cases we would expect it to be 1
15	foot of excavation or 2 feet of excavation.
16	MS. RUSSELL: Yes?
17	MEMBER OF AUDIENCE: What do you expect the
18	length of the project to be? Can you do it in a
19	season, is it going to take three years, how long?
20	MS. LOGAN: Once we start the construction
21	we're hoping that it would be done in a construction
22	season. There's been work done on the Tittabawassee.
23	We're even thinking maybe two to three months if
24	things go really well, but that means, you know, you
25	don't have acts of whatever, weather.

1	MS. RUSSELL: Yes?
2	MEMBER OF AUDIENCE: Just a comment with
3	Evergreen Drive is a chip and seal road, and you start
4	running 1,100 loads of dump trucks up and down that
5	road, I'm just concerned about how much of it's going
6	to be left. I know you fix whatever you broke, but
7	that needs to be taken into consideration.
8	MS. LOGAN: So, again, this is a comment
9	about the condition of the road and Evergreen the
10	impacts that are potential to Evergreen Road Drive,
11	sorry. We would again try to document the preexisting
12	conditions and try to develop a traffic-management
13	approach that minimizes impacts and repairs and
14	replaces stuff. I mean, we know that the folks who
15	live down there need to get down there, so we'll work
16	with the community to make sure there's access and
17	that things are repaired back to condition.
18	MS. RUSSELL: Yes?
19	MEMBER OF AUDIENCE: So to follow along with
20	that, so the road costs and replacement of possible
21	damage to the road would be covered by the project,
22	although the road does split to municipalities, both
23	Frankenlust Township and the City of Bay City? That
24	whole stretch, everything is taken care of by the EPA
25	overall project?

1	MS. LOGAN: So for the folks in the back,
2	this is a question about who pays if there are
3	repairs that are needed by the road, who pays for it.
4	So under an EPA project we expect Dow will do the work
5	under a legal agreement with us, but if they if
6	there are impacts to the road that take it so that
7	it's not in the current condition, Dow would pay for
8	it to come back to the current condition. So it
9	doesn't matter the municipality, even though there's
10	that question.
11	MS. RUSSELL: Yes, you have a question?
12	MEMBER OF AUDIENCE: We're already
13	anybody that lives on Evergreen is not satisfied with
14	the condition of the road today, let alone once the
15	work is done, and Dow is going to be coming in and out
16	and in and out making it worse. I would hope that we
17	would end up with a bigger and better road when it's
18	done.
19	MS. LOGAN: So this is not an answer you're
20	going to love, but under EPA's law we don't require
21	betterment, we require as good as.
22	MEMBER OF AUDIENCE: So you're going to give
23	us a road with more holes in it?
24	MEMBER OF AUDIENCE: It's going to be
25	tricky.

1	MS. LOGAN: Let me say this, I believe from
2	what I've heard from communities where work has been
3	done that they at the end of the work have expressed
4	satisfaction with the work.
5	MEMBER OF AUDIENCE: Okay. That's a start.
б	MS. LOGAN: But from what the regulations
7	and the law require is we would repair things to
8	as-good-as condition.
9	MEMBER OF AUDIENCE: I can only envision
10	what it's going to look like after 1,200 truckloads
11	going down the road, so that's all I can say. So
12	we're concerned, we're all concerned.
13	MS. RUSSELL: And we'll continue, you
14	know one of the things about these projects that we
15	do, especially associated with this site, is
16	continuing to communicate and work closely with you,
17	so this is not going to be the first and last time you
18	have access to us or even Dow's team. So this will
19	not be a surprise if you are not satisfied. You know,
20	we'll have that communication going forward and work
21	together on that.
22	I think we had Terry, go ahead.
23	MEMBER OF AUDIENCE: So if a resident
24	discovers that they have dioxin in their backyard but
25	it doesn't meet the 250 parts per trillion threshold,

1	is it possible that they could negotiate with Dow's
2	contractors to have the work done and would Dow then
3	take care of the contaminated soil?
4	MS. RUSSELL: Mary?
5	MS. LOGAN: So that was a question you
6	brought up just about a half an hour ago
7	MEMBER OF AUDIENCE: Yes.
8	MS. LOGAN: and honestly, Terry, I have
9	not had time to think about that or talk to the team,
10	so we've got that as a question that needs to be
11	thought about.
12	MEMBER OF AUDIENCE: Okay.
13	MS. RUSSELL: So, again, it would be around
14	going outside of what we're requiring and what the
15	possibilities of that are.
16	So, sir, you have a question back there?
17	MEMBER OF AUDIENCE: There's a substantial
18	amount of underground utilities, especially down in
19	the residential portion in Frankenlust Township. You
20	mentioned a staging area and there's a lot of heavy
21	truck traffic and such. Have you taken those
22	underground utilities into consideration to make sure
23	they're not damaged while you're doing this work?
24	MS. LOGAN: That would be part of the
25	pre-construction investigation and planning, yes.

-1	
1	MS. RUSSELL: Sir, you have a question?
2	MEMBER OF AUDIENCE: Where is the off-island
3	site located at, the other alternative?
4	MS. LOGAN: We have not selected the final
5	site where the contaminated soil would be hauled to.
б	One of the places that we take stuff is back to Dow's
7	plant in Midland and relocate it back there. That's
8	the source of the contamination. Other materials have
9	gone to public landfills.
10	MEMBER OF AUDIENCE: In other words, it
11	wouldn't go to the dim dip (phonetic) for the river
12	dredging?
13	MS. LOGAN: It would not, no.
14	MS. RUSSELL: Another question, yes, sir?
15	MEMBER OF AUDIENCE: If the soil is removed
16	all around the perimeter of our homes, what about the
17	perimeter drainage around homes that would be
18	disturbed, would that be all replaced and satisfactory
19	to remove the drainage?
20	MS. LOGAN: So, again, for the folks in the
21	back, this is a construction question, if there was
22	drainage material surrounding a home and it was
23	removed, would it be replaced. So my understanding is
24	if that was removed it would be replaced, but also for
25	stability of homes sometimes we have to angle back the

cut, and so it would be, you know, again, evaluation 1 2 of a particular property about what is actually coming 3 out. 4 MS. RUSSELL: Yes? 5 MEMBER OF AUDIENCE: Okay. I'm a little confused about the 250 parts per trillion as the 6 7 trigger when Michigan has a 90 parts per trillion 8 standard for safe human contact. Why is there such a 9 large difference? Again, for the folks in the 10 MS. LOGAN: 11 back, this woman was asking about the 250 parts per 12 trillion EPA cleanup number versus the State's generic 13 90 parts per trillion. So under the State's 14 regulations -- and we have State folks here if you want to talk to them. But under the State's 15 16 regulations there is very conservative assumptions 17 that are put in, and they come up with a number that 18 would be protective of all circumstances. 19 What the part 201 of the State's regulations 20 and EPA allow is that we can look at site-specific 21 circumstances, so, for example, we have frozen ground 22 here in Michigan, we have snow cover in Michigan, and 23 on those days you don't become exposed to soil. We 24 have very site-specific studies on some of the other 25 aspects that go into it, so pursuant to the

1	regulations we developed a site-specific cleanup
2	number.
3	MEMBER OF AUDIENCE: Okay. That's still
4	pretty concerning though for those of us and I'm
5	not from Middleground Island but I do live on the
6	Saginaw River, and it's the numbers are just very
7	concerning. If we have 198 parts per trillion in our
8	yard, we have a house that recently flooded on January
9	11th, that the DEQ or EGLE refuses to come into the
10	house and do any testing. So how can we alleviate
11	these concerns of these numbers, 90 parts per trillion
12	versus 250?
13	In my yard I have 198 parts per trillion.
14	They won't come into the house and test after the
15	flood. They've refused to do that so far, yet they
16	won't guarantee me that the house is safe to live in,
17	so we're not living there.
18	MS. LOGAN: So you must be Sue?
19	MEMBER OF AUDIENCE: I am.
20	MS. LOGAN: Hi, Sue. I think we've talked
21	on the phone a couple of times. I think Diane and you
22	have communicated.
23	MEMBER OF AUDIENCE: Yes.
24	MS. LOGAN: So in terms of the site-specific
25	number, as I said, both the Federal and State

1	governments allow you to calculate based on
2	site-specific studies, which we have done. We both
3	have toxicologists working for our agencies that have
4	looked at the information we have to modify the
5	State's generic number. Now, in terms of your
6	property, we did have Dow sample your yard, and it's
7	below the site-specific number, so EPA can give you a
8	letter that states that your yard does not need a
9	cleanup.
10	In terms of coming into your house, I think
11	we've communicated you may have issues related to mold
12	that you may really want to evaluate, but we typically
13	don't see flood material bringing in particles that
14	would be of concern. And I think that the State
15	Health Department communicated with you about that
16	issue as well.
17	MEMBER OF AUDIENCE: But what I want is an
18	assurance that that house is safe to live in, and how
19	can I get that without testing being done? I want an
20	assurance that there is no contamination, dioxin
21	contamination, in that house that's above 90 parts per
22	trillion. And, you know, they tell me they anticipate
23	that there isn't, but that's not really an assurance.
24	MS. RUSSELL: Can I clarify? So you're
25	looking specifically for dioxin alone, because I think

Mary mentioned that there might be some other health 1 2 concerns outside of dioxin, but you're not looking for 3 that specifically? 4 MEMBER OF AUDIENCE: I'm not wanting you to 5 I know that's a separate issue and we address mold. 6 have to take care of that on our own. The dioxin is 7 the issue that I'm concerned about. And I don't -- my 8 husband has cancer. You know, we have 198 parts per 9 trillion in the yard, and I don't feel that we can 10 live there in that house safely without actually being 11 Now, if it's tested and they say you're way tested. 12 below 90 parts per trillion in dioxin, no problem, 13 we're good, you know. Then we've had the assurance 14 that we can live there safety. In the meantime since 15 January 11th we don't live in that house. 16 MS. LOGAN: So we are not going to use the 90 parts per trillion generic number. 17 We have 18 developed a site-specific number, so we are going to 19 stick with that, and we can talk more on a sidebar if 20 you want more technical details about how we developed 21 that or we can send you to material on our website 22 that have the technical underpinnings of it. 23 In terms of assurances, I'm not saying that 24 you or your husband -- first of all, I'm very sorry 25 about your husband's situation, but I'm not saying

1	that you or your husband would have done this, but
2	there's things that are outside of the environmental
3	controls that can contribute to contamination in a
4	household, and so that is something that we've
5	encountered, say, for example again, it's not
6	dioxin, but people have dry-cleaning in their house,
7	they have cleaning materials, they have other things
8	that contribute to things in the house that aren't
9	related to environmental cleanups. So we can't give
10	you a broad discussion about the condition of your
11	house. We can tell you what we know from studying.
12	MEMBER OF AUDIENCE: You could with testing
13	inside the house. That would tell us the dioxin level
14	inside the house, so that's what I would like to do.
15	We don't have to take up any more time. But my other
16	question is what studies are you looking at to show us
17	that the water level is going down in 2021?
18	MS. LOGAN: So the studies that we've looked
19	at and I think my counterpart at the State Police
20	they were posted on the NOAA website, which is the
21	National Oceanic and Atmospheric Agency. But in the
22	past 100 or so years, 80, 90 years, there have been
23	tracking of water levels in Lake Huron and they go up
24	more gradually and then typically they hit their peak
25	and come down pretty steeply, pretty quickly.

1	We actually thought that the levels last
2	year were close to the peak and expected that they
3	would start dropping down. We're hoping that that
4	pattern repeats, although right now my understanding
5	is the Corps of Engineers is saying that we may have
6	even higher levels in the bay, so we're keeping an eye
7	on the water levels in terms of hoping that they
8	continue to following the 100-year historic pattern.
9	MEMBER OF AUDIENCE: Thank you.
10	MEMBER OF AUDIENCE: Are there private
11	concerns that can do the testing for her?
12	MS. LOGAN: We cannot represent private
13	concerns.
14	MEMBER OF AUDIENCE: Are there some?
15	MS. LOGAN: Yes.
16	MS. RUSSELL: Private labs, is that what you
17	meant?
18	MEMBER OF AUDIENCE: (Nods affirmatively.)
19	MS. RUSSELL: Other questions before we take
20	a break? I want to remind you that when we get to the
21	portion where we're taking public comment EPA will not
22	be able to respond at that time. Again, we'll be
23	responding in a document we call a responsiveness
24	summary once the public comment period is closed. So
25	if you do have questions for us, now is the time. I

1	will also mention that if you want to reach out to us
2	after the meeting our contact information is on the
3	front of that fact sheet.
4	Yes?
5	MEMBER OF AUDIENCE: Is there any reason
6	that they couldn't use the former Corps of Engineer's
7	site to put the dirt that's already in that section
8	there by the closed landfill?
9	MS. RUSSELL: So any reason we couldn't use
10	the former or the dredge material site?
11	MS. LOGAN: That would certainly minimize
12	traffic and might seem logical. That is something
13	that I think because there's a long-term management
14	requirement that the State has, I don't know if that
15	would be we would be able to work out the logistics
16	of that, but that's something we can evaluate and work
17	with our partners at the State and at the County or
18	the City, rather, and talk to them about that.
19	MS. RUSSELL: Other questions? Yes, in the
20	back? Oh, you want to speak to that?
21	MEMBER OF AUDIENCE: Yeah.
22	MS. RUSSELL: Okay, yeah.
23	MS. THURSTON: I'm from the City of Bay
24	City. (Inaudible).
25	COURT REPORTER: I can't hear her.

1	MS. RUSSELL: Shelly, she can't hear you and
2	she's taking a transcript. Can you come up to the
3	front? I apologize again for the lack of audio.
4	MS. THURSTON: That's all right. People
5	tell me I'm too loud, so thank you.
6	I work for the City of Bay City. My name is
7	Shelly Thurston, and I'm the project manager for the
8	Middlegrounds Landfill and CDF area. And we have a
9	consent decree with the State and with a PRP partner,
10	Honeywell, for that particular area. It's also under
11	a deed restriction. So based on what our consent
12	decree says and what our deed restriction says we
13	cannot take disposal soils in either the landfill or
14	the CDF area, so that just puts that to rest.
15	MS. RUSSELL: It disqualifies that from
16	being
17	MS. THURSTON: Disqualifies that. I know
18	that would make logical sense, but unfortunately that
19	would violate our consent decree and open up a bit of
20	a problem, so we don't want to open that problem, so
21	just a short answer to that question.
22	MS. RUSSELL: Thank you for that
23	clarification.
24	MEMBER OF AUDIENCE: So are you in charge of
25	the road too?

1 No, I am not. You would want MS. THURSTON: 2 to get with Mr. Houseback on that. 3 MEMBER OF AUDIENCE: There's a road I don't like. 4 That's Mr. Houseback, a 5 MS. THURSTON: different department. 6 7 MS. RUSSELL: I think that's a typical 8 government answer, right? 9 MEMBER OF AUDIENCE: She was good. 10 MS. RUSSELL: Okay. So any last burning 11 questions we want to get out tonight before we just 12 take a momentary -- yes, sir? 13 MEMBER OF AUDIENCE: The cleanup for the 14 residential area -- I own some commercial property. 15 MS. RUSSELL: Commercial property, okay. 16 MEMBER OF AUDIENCE: Is that the same type 17 of things for --18 MS. RUSSELL: Is it the same thing for 19 commercial property for cleanup area? Good question, 20 how do we treat commercial property? 21 MS. LOGAN: So so far of the commercial 22 properties that we have tested, they have not exceeded 23 the cleanup number, so the commercial properties do 24 not need a cleanup at this point. If you are the 25 gentleman who contacted me about arranging testing, we

1	will work that out. But I would anticipate it would
2	be the same thing, dig out material.
3	MEMBER OF AUDIENCE: I did speak with
4	someone last fall that came out to that property and
5	said that the level did exceed it, so I don't know if
6	they want to take additional samples, but I didn't get
7	a
8	MS. LOGAN: This was a commercial property?
9	MEMBER OF AUDIENCE: Along Hotchkiss.
10	MS. LOGAN: I would have to look into this
11	because the results that I have we do not exceed
12	the cleanup number. For commercial property that
13	cleanup number is 2,000 parts per trillion.
14	MS. RUSSELL: It sounds like you night have
15	some information, sir?
16	MR. NANNEY: I do, actually. My name is
17	Rodney Nanney. I work for Frankenlust Township. I'm
18	the zoning administrator. The property he's talking
19	about is on the south side of Hotchkiss Road. It's
20	right there at the Township/City boundary. It is
21	zoned commercial, not a bit is used commercial, and it
22	probably will not be zoned commercial next year
23	because the Township is currently working through a
24	process to consider rezoning that area back to
25	residential. It was zoned commercial a long time ago

for activities that never actually happened, but 1 2 anyway, it is technically zoned commercial, but it's 3 all residential use. 4 MS. RUSSELL: All right. So if there are no 5 other questions, before I break -- I did forget to mention, for the cleanup that we've been doing on the 6 Tittabawassee River over the last several years we 7 8 also have been working with what we call a community 9 advisory group, and I have Dave Sommers here who is 10 the president of the community advisory group. And 11 this is basically a group of citizens who really have been holding meetings, talking about the work that 12 13 we're doing, and we come to those meetings and provide 14 information periodically. And so if that is something that you're interested in, Dave Sommers can provide 15 16 information to you, but it's, again, a forum for 17 community members run by community members that are 18 focused on the cleanup that we're doing related to the 19 dioxins and Dow Chemical, so just for your 20 information. 21 With that I just want to remind you the ways to submit comments, so we're going to take just a 22 few-minute -- short minute break, three-minute break. 23 24 If there's anyone left who wants to make a comment we 25 can do that with our court reporter here. You can

1	also if you have written down some comments and
2	want to submit them to me tonight we can do that. I
3	will take those. You can also e-mail them to me or
4	you can mail them, but there's a sheet inside the fact
5	sheet you can cut out and mail to me and I'll receive
6	those comments.
7	As long as they are postmarked or I receive
8	them by March 30th we will be able to take those and
9	put it into the record. So tonight is your
10	opportunity or you have until the 30th of March to
11	provide those to us via my inbox, okay? So with that,
12	if those of you who are not sticking around for that I
13	do want to thank you for coming tonight. Stick around
14	though if you are looking to submit a comment. I do
15	ask that you grab one of these cards so that I can do
16	it in an orderly fashion, and you'll have a few
17	minutes now to grab one of those if you intend to
18	leave a comment.
19	(Recess taken at 7:17 p.m.)
20	(Back on the record at 7:23 p.m.)
21	MS. RUSSELL: We are going to go ahead and
22	move forward into the oral comment portion. I think
23	this may be a short session, so if you had questions
24	for us after we should be available. So far all
25	right. So, once again, this is the portion of the

1	meeting where for those of you who maybe just want to
2	submit oral comments we have the court reporter here
3	who can record that for us. EPA will not be
4	responding today but we'll be responding in a document
5	called a responsiveness summary. And then once we are
6	finished with the that portion of the meeting we'll
7	go ahead and bring this to a close.
8	So with that I've handed out some cards. I
9	didn't have card 1, so we're starting with card 2.
10	And you, sir, have the floor. Thank you.
11	MR. DEWITT: Do you want the name for
12	MS. RUSSELL: Make sure that she can hear
13	you. I'll give her the card with your name and
14	information on it so you don't have to do that.
15	MR. DEWITT: My biggest thing is that this
16	project right now we're finally at the
17	Middlegrounds. This has been something that's going
18	on for longer than I've owned a house in Bay City, but
19	my concern is that the area the underground water
20	table and contaminates may have gotten through there
21	through raising and lowering of water over time and
22	random other sites throughout the area that may or may
23	not have been Dow-related. Are those also part of
24	this project to be monitored to see if dioxins got
25	into that process, because if they get into the

1	underground water table and when you go back into
2	the west side of Bay City there's an area where
3	there's almost no development because it's so low and
4	the water gets up there almost every year. Are those
5	houses also going to be affected by this and have
6	possible projects done or testing done to make sure
7	that's covered?
8	MS. RUSSELL: Thank you for your comment,
9	and I'll take your card when you're done too.
10	So that was the only card I had out. Did
11	anyone else just one last shot if you wanted to
12	submit an oral comment or, yet again, you can submit
13	those to me written, you can mail it to me, hand it to
14	me tonight, send me an e-mail. My information is in
15	the fact sheet. You have until March 30th. Okay?
16	So if there are no others who would like to
17	submit a comment right now I'm going to go ahead and
18	close the meeting. And thank you all for coming
19	tonight, and if you have any other questions please
20	don't hesitate to contact Mary or myself. Thank you
21	very much and drive safe.
22	(Meeting concluded at 7:26 p.m.)
23	
24	
25	

1	CERTIFICATE OF REPORTER
2	
3	
4	STATE OF MICHIGAN )
5	) SS
6	COUNTY OF OAKLAND )
7	
8	I hereby certify that I reported
9	stenographically the foregoing proceedings and
10	testimony under oath at the time and place
11	hereinbefore set forth; that thereafter the same was
12	reduced to computer transcription under my
13	supervision; and that this is a full, true, complete
14	and correct transcription of said proceedings.
15	
16	
17	
18	
19	
20	Cheri Lilleere
21	
22	Cheri L. Gleyre
23	CSR-6548, Notary Public
24	Oakland County, Michigan
25	My Commission Expires May 9, 2020

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