

HARBOR DEEPENING PROJECT

PUBLIC MEETING

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1 P R O C E E D I N G S

2 MR. HARRAH: Good evening, everyone. Go
3 ahead and take your seat and we'll get
4 started here momentarily. Real fast, the
5 presentation today is on blasting aspects
6 for the Jacksonville Harbor Deepening Study.
7 That's strictly what we'll be focusing on
8 today. I will give a brief presentation,
9 general overview of where we're at with the
10 project, talk a little about the upcoming
11 schedule, what are some of our milestones we
12 have coming up, when could you potentially
13 see the project being deepened. We'll get
14 into some of that, as well.

15 And then we have a terrific
16 presentation. I guess one of the key things
17 is to lead by example, so we want to present
18 to you today a presentation that was a
19 successful project we did down in Miami,
20 Miami Harbor. Ms. Terri Jordan-Sellers will
21 be presenting that.

22 We will also have some opening remarks
23 from the interim CEO of Jacksonville Port
24 Authority also. And at the end we'll have a
25 few folks come up, we'll try to address some

1 of your questions here. I did bring a group
2 of individuals with me, technical experts in
3 their field as far as engineering,
4 environmental, geotech, blasting, et cetera.

5 If you have really, really detailed
6 blasting questions, I'll be happy to answer
7 them here, but we will have all those folks
8 in the back so they can speak to you one on
9 one. So I do suggest you go back there, as
10 well.

11 So with that said, I want to turn it
12 over to Mr. Schleicher, who will give us
13 some opening remarks.

14 MR. SCHLEICHER: Thank you, Jason.

15 Good evening. Thank you for being here
16 tonight. I'm very happy to see everyone
17 here that's concerned about Jacksonville,
18 the economy, as well as the environment and
19 the river. And I think you'll be pleased
20 with the presentation that the Corps will
21 show you today.

22 We're very excited about the possibility
23 of going to 47 foot because it puts us on an
24 even keel with ports that we compete with on
25 a daily basis. It creates jobs and it makes

1 a lot of potential business for the future
2 for the entire area, not just Jacksonville
3 but also for all of Northeast Florida.

4 So thank you again for being here today.
5 And I'll turn it back over to Jason.

6 MR. HARRAH: Thank you, Roy.

7 Okay. Can everyone see this okay or do
8 we need to dim the lights?

9 First we'll talk about some of the
10 presentation outline, some of the things
11 you're going to hear today. The first: Why
12 consider deepening the channel? What's the
13 benefit of that, why would we even consider
14 taking the channel from its existing 40-foot
15 depth up to a deeper depth? Why are we
16 looking at that?

17 Secondly, where would the deepening
18 occur? The river, the federal channel is
19 over 20 miles long. We're not deepening 20
20 miles of river. We're going to show you
21 exactly where the deepening would occur.

22 What is the Corps' recommended depth?
23 We're going to tell you what depth we came
24 up with from a national economic development
25 standpoint.

1 Number four, we're going to talk to you
2 about Jacksonville Port Authority's locally
3 preferred plan request, as Roy just
4 mentioned, of 47 feet.

5 Number five, we'll talk a little bit
6 about the timeline, when some of the things
7 are going to occur, what are some of the
8 major milestones that we have coming up for
9 the project.

10 And number six, as I mentioned,
11 Ms. Sellers, a senior biologist for the
12 Corps of Engineers, will give you a
13 presentation on blasting to try to alleviate
14 some of the concerns and pinpoint exactly
15 what we're talking about doing here.

16 Again, as I mentioned, I'm Jason Harrah,
17 the project manager. And Ms. Sellers will
18 be doing a presentation, as well.

19 I'll take this time to introduce some of
20 the Corps folks real fast. Mr. Eric
21 Summa -- waive your hand, Eric -- chief of
22 environmental. Samantha Borer is my
23 planning technical lead for the project.
24 Steve Meyers is a geotech. Dr. Aconya (ph)
25 helped us write a blasting report for the

1 project. Mike Hollingsworth is our water
2 quality permit lead. Jason Spinning and
3 Terri Sellers, both out of the environmental
4 group. I'm looking for Adrise Dobbs (ph),
5 our senior economist for the project. Steve
6 Bratos, Steve? He is an engineering modeler
7 for the project.

8 I'm trying to see if there's anybody
9 else. I think that pretty much covers all
10 the main Corps folks that are here to help.

11 Again, as we go through the
12 presentation, those folks will move to the
13 back of the room and they'll be here to
14 answer all the questions you have. We will
15 answer them publicly up here, as well.

16 So why consider deepening? First we've
17 got to address what the problem is. The
18 problem is transportation cost and
19 efficiency. We have inefficient federal
20 channel depth and restrictive channel widths
21 and turning basins.

22 It's no secret to everyone that the
23 Panama Canal -- and there went one of my
24 posters on the ground. It's no secret to
25 anyone that the Panama Canal is opening in

1 2015, 2016. I know the date kind of moves
2 around a little bit. With that will come
3 larger vessels, more cargo. More cargo,
4 heavier weight equals deeper channels that
5 are needed.

6 So that's the reason. We are trying to
7 help Jacksonville Port Authority prepare for
8 those larger vessels to anticipate that
9 new -- more courses of ships that will be
10 coming into the channel.

11 What's the opportunity? We can reduce
12 transportation costs. We can provide more
13 efficient transportation of cargo, increase
14 navigational safety and an opportunity to
15 capitalize, as I mentioned, on those larger
16 vessel costs.

17 Where will we be deepening? Segment one
18 goes from the entrance channel all the way
19 to river mile 14. Segment two goes from
20 river mile 14 all the way down to Talleyrand
21 terminals. Segment three is the West Blount
22 Island channel.

23 As we -- original project study limits
24 was all the way from zero, river mile zero,
25 all the way to 20. As we further got into

1 the project, did more analyzing of the
2 project, to help us reduce the environmental
3 impact for the project, the Jacksonville
4 Port Authority, the local sponsor,
5 ultimately made the request initially to
6 reduce from this 20 all the way down to 14.
7 So that took out six miles of channel right
8 there that we've eliminated from the
9 project.

10 Secondly, we removed the West Blount
11 Island channel from consideration. And
12 lastly, we dropped river mile 14 to river
13 mile 13. So ultimately, the dredging for
14 the Jacksonville Harbor Deepening Project
15 will be from the entrance channel at Mayport
16 all the way to river mile 13, which is near
17 the MOL terminal.

18 Now, please keep in mind, too, some of
19 this is already at 50 feet for the Navy
20 fleet, okay. That's important to remember.

21 This thing likes to skip.

22 Discussion on channel depths. As I
23 mentioned before, the Corps' recommended
24 plan, we look at this from a national
25 economic development plan, what we feel as

1 the Corps -- we have a model we put this in.
2 It looks at the engineering aspects, it
3 looks at the costs, it takes the benefits
4 into account, bringing in those larger
5 classes of vessels, and basically puts all
6 this into a model. And it will spit out
7 essentially what the recommended depth for
8 the deepening is.

9 Our recommended depth was 45 feet, okay.
10 This depth provides a transition to those
11 larger vessels I was mentioning in the
12 Panama Canal. 44 to 45 feet, we do see that
13 transition to the larger ships. Now, are
14 they fully loaded? No. But there is a
15 transition to the larger vessels.

16 The other reason, why are we not at 47
17 feet as the Port's requested? The main
18 reason for us not being at 47 feet is due to
19 the fact that there are significant port
20 improvements that have to occur, some of the
21 docks, the berth areas, et cetera, have to
22 be built to accept these new vessels.
23 That's all paid by the sponsor 100 percent.
24 That's sponsor funds.

25 So there is a significant cost growth

1 from 45 to 47 feet for those port
2 improvements; however, there are benefits
3 beyond that. These larger ships, you can
4 bring more cargo, more boxes per ship.
5 However, there is a large spike in cost,
6 which keeps us at 45 feet.

7 So Jacksonville Port Authority, they
8 heard our plan, they had a presentation to
9 their board, and it was ultimately decided
10 it was in the best interest of Jacksonville
11 Port Authority to go to 47 feet.

12 What's the next step that has to occur
13 to do that? The Jacksonville Port Authority
14 made an official request to us in writing
15 for the 47 feet. We have packaged that up,
16 we have sent that up through our vertical
17 chain. It has to be approved by our
18 division office in Atlanta. It has to be
19 approved by our headquarters office in
20 Washington, D.C. And ultimately, the final
21 person that approves that is the Assistant
22 Secretary of the Army for Civil Works,
23 Ms. Jo-Ellen Darcy.

24 She will look at it from an engineering
25 aspect, an environmental aspect. She will

1 ultimately make the call if that can be
2 approved as the preferred plan. So that
3 package is routing as we speak.

4 Additional depths beyond 45 feet is paid
5 100 percent by the sponsor. As I mentioned
6 before, the port improvements that are
7 needed beyond 45 feet, the sponsor picks up
8 the bill for that, as well as the additional
9 costs of deepening beyond 45 feet. And the
10 Port picks up that cost, as well, okay.

11 And as I mentioned before, as well,
12 there are benefits beyond 45 feet.
13 Obviously those vessels were coming in at 45
14 feet; however, you can put more boxes on
15 those vessels and possibly make Jacksonville
16 a first inbound, last outbound port. So
17 there are definitely benefits, we know that.

18 It's just there is a lot of cost to go
19 beyond 45 feet that the Port has agreed to
20 pick up. So just to summarize, Corps' plan
21 is 45, Jacksonville Port Authority is 47.

22 Project timeline, just to kind of give
23 you guys some real quick dates of things
24 that's going to be coming up. We will
25 complete the draft report with SEIS, that is

1 Supplemental Environmental Impact Statement,
2 in accordance with NEPA, National
3 Environment Policy Act. We will complete
4 that in late April 2013, next month. We
5 will start concurrent reviews; the key one
6 that the people in this room are concerned
7 about would be the public review. That is
8 scheduled to start on 6 May and that will be
9 a 60-day review so the public will have the
10 opportunity -- the report will be put on our
11 website. The public can go out and take a
12 look at that. They can provide comments.
13 We'll address each one of those comments
14 during that 60-day period.

15 We also have several other
16 congressionally-mandated reviews that we
17 have to go through at that same time. As
18 you can see, it's a busy few months. We
19 have a public review, a legal review by our
20 counsel, agency technical review; that is,
21 all the other districts in the Corps of
22 Engineers, New England, Wilmington, they all
23 take a look at our package to make sure
24 we've dotted our Is and crossed our Ts, as
25 well.

1 We have a division review in Atlanta, a
2 headquarters review and an independent
3 external peer review as mandated by
4 Congress. That review is by one of the
5 largest engineering firms, Mattel. Some of
6 the big firms, they have the opportunity, as
7 a third party, to review our package and
8 provide comments, as well.

9 So as you can see, our project goes
10 through a series of six to seven reviews
11 before it even gets up to our division
12 engineer for his official approval. We have
13 several reviews to go through. That will
14 occur, as I said, from May to July of 2013.
15 Our division engineer will take all this
16 into account and make his final approval in
17 October 2013. Why is that important? Once
18 that occurs, we would start the plans and
19 specifications phase, or the design of the
20 project.

21 Civil works review board is December
22 2013. What is that? That's when several
23 generals from Washington, everyone gets in a
24 room and they ultimately make the decision
25 that we have dotted all our Is, we've

1 crossed all of our Ts, and this design, this
2 study, is ready to go to Congress for
3 authorization and appropriations. That's a
4 really key point in our project.

5 We have a chief's report in April 2014.
6 That is the final report completed.
7 Everything is done, and that's when we would
8 officially make the request to Congress for
9 authorization in April 2014, somewhere in
10 thereafter.

11 When will we deepen? Well, we're going
12 to put the report in front of Congress in
13 the spring, summer of 2014. Ultimately,
14 nobody in this room can make that call.
15 It's going to be from our elected officials,
16 congressional delegates. The report will be
17 there and they have the opportunity to make
18 the authorization and then make the
19 appropriation.

20 Our schedule, assuming all the clouds
21 align, we could be constructing as early as
22 2015. How long will it take? We're
23 estimating approximately five to six years
24 to deepen the project. So around 2021 would
25 be the completion date.

1 With that said, I'm going to turn it
2 over to Terri to go over the presentation
3 for the blasting. As I said, lead by
4 example. We want to show you a project
5 today that was successfully done. And once
6 Terri completes her portion, we'll turn it
7 to our corporate communications officer.
8 Then we'll do some Q and A.

9 MS. JORDAN-SELLERS: Can everybody hear
10 me okay? I'm going to go back here.

11 I guess one of the first questions you
12 probably are asking is why are you talking
13 to me about Miami when I'm in Jacksonville.
14 Because we had a project in 2005 where that
15 was the first time that the Corps, the
16 Jacksonville district, had actually used
17 confined underwater blasting as a
18 construction technique in the continental
19 United States; also did a great deal of
20 research and data development and
21 publication in the peer-reviewed literature
22 out of this project, and a lot of lessons
23 learned that have now been incorporated and
24 are being used nationally. We kind of set
25 the standard for what everybody else was

1 doing.

2 And I seem to recall some folks that
3 were down with us in Miami and said, well,
4 if you can blast in Miami, you can blast
5 anywhere. And I want to show you how that
6 environment set the stage for what we might
7 be doing here in Jacksonville. So I'm using
8 Miami Harbor as a case study for you
9 tonight.

10 So -- you were right, Jason. This thing
11 is real sensitive.

12 Okay. So the issues that we had to deal
13 with at Miami and carries through to
14 Jacksonville is how does the Corps and our
15 contractors meet a congressional mandate to
16 deepen a port in an extremely
17 environmentally-sensitive area? How do we
18 define environmentally-sensitive? We had
19 sea grasses. We had coral reefs directly
20 offshore. We had a national park to the
21 south of the project. We had the entire bay
22 in which the port is located designated
23 outstanding Florida waters. We also had a
24 state aquatic preserve. We had a critical
25 wildlife area directly to the south of the

1 port. We had endangered, threatened,
2 protected species that called the port, the
3 area adjacent to the port, home. And we had
4 a highly-aware citizenry and a city that
5 overlooks the project site. Now, I think
6 you can immediately begin to see some
7 similarities between what we dealt with at
8 Miami and what we may be dealing with here
9 in Jacksonville.

10 So first of all we start talking a
11 little bit about the different construction
12 techniques that we could use. One of the
13 things here is that the rock-hardness of the
14 substrate hardness requires blasting in some
15 areas.

16 In Miami there had been previous
17 blasting and in South Florida in the early
18 1980s. And for the Miami Harbor Project and
19 the actual Miami Harbor that's getting ready
20 to deepen this coming summer, we use
21 something called confined blasting. And I'm
22 going to tell you a little bit more about
23 that in a moment. But this was developed
24 with the blasting industry but also looking
25 at some safety radiuses that were adapted

1 from the United States Navy.

2 The Navy has these wonderful gentlemen
3 that we refer to as the U.S. Navy Seals.
4 They do underwater warfare. They have a
5 tendency to put explosives onto enemy
6 vessels. And then you've got to get that
7 guy as far away from that bomb before it
8 goes off so that he's not going to be
9 injured. So we adopted their safety
10 radiuses to protect our threatened and
11 endangered species.

12 Some of the other methods that we might
13 look at for construction is a cutterhead
14 dredge. This is an example of a cutterhead
15 dredge. We might also use a clamshell
16 dredge; exactly as it's described, it looks
17 like a clam closing. We might need a hopper
18 dredge. This is an oceangoing vessel that
19 sails around and basically drags two
20 underwater vacuum cleaners alongside of it
21 and sucks up sediment. Or we might use a
22 bucket dredge, or you might refer to this as
23 a backhoe. You've seen them on the side of
24 the road. We use these in a marine
25 environment.

1 Now, when we talk about blasting, the
2 amount of blasting that we're looking at
3 would be contractor-dependent, because
4 different contractors have different kinds
5 of equipment. One might have a very, very,
6 very strong cutterhead that can excavate 75
7 percent of the project without having to
8 blast. Another one might have a strong
9 backhoe that can do 55 percent of the
10 project without having to blast.

11 Unfortunately for the Army Corps of
12 Engineers, there are these wonderful things
13 known as federal laws that require us to
14 give competition to industry, and we have to
15 write our plans and specs such that we
16 cannot sole-source. So we have to write a
17 specification that gives the most
18 opportunity for competition amongst the
19 industry.

20 And so, again, the amount of blasting
21 may very well end up being
22 contractor-dependent. And then the
23 equipment that that individual contractor
24 chooses to bring, he may have a tool that
25 could do it, but that tool could be in

1 Australia and he's not going to be able to
2 get it back here in time to do the project,
3 so he's going to have to use something else
4 instead.

5 So some of the dredging equipment, like
6 I said, is not going to require as much
7 pretreatment. That is a term that we use
8 for blasting because what we're doing here
9 is we're trying to crack the rock before
10 dredging. We're trying to pretreat it
11 before dredging.

12 And one of the other things we have to
13 take a look at, and I'm giving you an
14 example here from another report project
15 we're currently working for Everglades, we
16 look at the hardness of the rock that we're
17 dealing with. And what they've done is our
18 geotechnical folks have gone out with a core
19 boring device and taken a core of the
20 limestone rock, and they put it in this
21 machine and they squeeze it. This is called
22 an unconfined compressive strength test.
23 And they see how much pressure do I need to
24 exert on this rock before this rock cracks.
25 And what we see is right about 4,000 pounds

1 per square inch is where we begin to talk
2 about blasting, no blasting. Again,
3 contractor equipment-dependent.

4 So at this point I know there have been
5 some core borings taken in Jacksonville but
6 not all of the ones that will be needed. A
7 lot of that will be done during our
8 planning, engineer and design phase that
9 Jason just mentioned, our plans and specs
10 phase. So these kinds of tests will be done
11 at that point to even narrow it down more as
12 to where we would be likely to blast in the
13 Jacksonville project.

14 Now, to give you some history, confined
15 underwater blasting is not new in the United
16 States. It has been used throughout the
17 country, but the Jacksonville district was
18 one of the pioneering districts to do it.
19 We did it in San Juan Harbor in 2000. It
20 was done at the Wilmington Harbor in 2002.

21 For those of you who are familiar with
22 the City of Wilmington, it overlooks their
23 river with 100-year-old structures right
24 immediately adjacent to the river. And they
25 were blasting right next to those

1 structures.

2 We did it in Miami Harbor in 2005. And
3 it's been ongoing in New York Harbor since
4 2004. Additionally -- these are just the
5 east coast projects -- there was recently a
6 project done in Columbia River, as well, out
7 in the Portland district.

8 Now, again, using Miami Harbor as an
9 example today, when we did our original
10 environmental impact statement in 1989, we
11 estimated that there would be 250 blasting
12 events required along this area here called
13 Fisherman's Channel and the Dodge and Lummus
14 Island Turning Basin to pretreat the rock.
15 So that's the number that we started with
16 was 250 based on a general review of all
17 available industries in 1989.

18 Now, remember, we did the project in
19 2005, so a few things have changed. A
20 little bit of technology, new equipment
21 coming on board that we didn't have access
22 to that information. So you heard Jason
23 just mention, well, we'll give the report to
24 Congress and then it will depend on when
25 Congress funds it. So there may be new

1 things coming on board, new technologies and
2 things that we'll be able to take advantage
3 of in Jacksonville that we don't yet know
4 about.

5 Now, this is the typical perception that
6 people give me when I talk about blasting.
7 How many of you have ever watched on AMC or
8 TCM an old World War II movie where they're
9 doing depth charges? Come on, your hands
10 aren't glued to your side. This is an
11 interactive presentation.

12 Okay. So when I talk about blasting in
13 the water, 95 percent of the people I first
14 meet go, oh my gosh, it's like a depth
15 charge. No, this is not. This is not what
16 we talk about when we talk about a confined
17 blast.

18 Actually, this is a ship shock of the
19 USS Winston S. Churchill. The U.S. Navy,
20 when they build a new class of ships,
21 actually sets off a bomb next to the ship to
22 see how well it does. I don't know if I'm
23 comfortable with that, but hey, it's their
24 boat.

25 So this is not what I'm talking about,

1 though. What I'm talking about is confined
2 explosions, and this is actually a
3 3,000-pound confined blast here on the
4 left-hand side at Miami Harbor. And I want
5 you to compare that to a seven-pound
6 unconfined blast. And I know it's a little
7 hard with the lights being this bright, but
8 there's a buoy there and there's a buoy
9 there. And I believe they're approximately
10 the same size.

11 Now, how did I get 3,000 pounds to be
12 that low and seven pounds to be that high?
13 That's what I'm going to tell you. That is
14 confined blasting. So confined underwater
15 blasting can be used as a successful and
16 efficient construction technique to pretreat
17 and crack hard rock and do it with minimal
18 impact.

19 Now let me tell you a little about
20 confined underwater blasting and then the
21 effects of blasting. So when we talk about
22 blasting, we talk about confined underwater
23 blasting. The first thing that we do is we
24 drill down into the rock that we're
25 proposing to pretreat. And we'll put the

1 primer and the booster and the actual
2 explosive charge, and then we're going to
3 cap it.

4 How many of you in here played with
5 firecrackers as a kid? Okay. When you were
6 holding those firecrackers, how many of your
7 moms said, don't close your hand around the
8 firecracker? Okay. Because you'd blow your
9 fingers off, right?

10 Believe it or not, that's what I want to
11 do in confined underwater blasting. I want
12 to put my firecracker in my hand, I want to
13 close it around and I want that pressure to
14 stay in the rock so, when it fires off, I
15 crack it. I'm going to crack that rock.
16 And by putting that little cap right here,
17 which is exemplified right here with this
18 bag of stemming material with the young lady
19 holding it for scale, that reduces the
20 pressure that escapes into the water and it
21 reduces that column of water going vertical
22 by up to 90 percent, which improves the
23 efficiency of the rock cracking, but, oh, by
24 the way, reduces all of the environmental
25 impacts significantly as a result. Neat

1 little side effect there. So smaller impact
2 area. We like confined underwater blasting.

3 Now, the other thing we'll do is that
4 you will see, this is a drill barge at Miami
5 Harbor, this is the Miami Harbor port right
6 here. You can see how close we actually are
7 to the port, and they were drilling what we
8 call a blast array. And here's a drawing of
9 what a blast array might look like.

10 This whole area would be considered one
11 shot. But that shot is broken up into
12 multiple small blasts, and those blasts are
13 referred to as delays. We use the term
14 delay because we break them up by a small
15 little section of time in between each shot.
16 And that time is typically -- has to be
17 greater than eight milliseconds.
18 Typically -- in fact, our specifications
19 require it to be no less than 15
20 milliseconds.

21 Physics, being the wonderful thing that
22 it is, says that, if I put that much time
23 between the two shots, I now have taken one
24 big shot and broken it into two smaller.
25 Whereas if I have multiple delays, I've put

1 that timer in there, I've broken that big
2 shot into multiple small shots. So the
3 channel typically closes 15 minutes before a
4 blast so that nobody is coming through, we
5 don't have any boats or anything. After the
6 shot goes off, we'll give an all clear.

7 Now, one of the things you can see here
8 in this lower drawing is these are actually
9 the delays. So here is the -- the delay
10 number one, number one goes off by itself;
11 then number twos are going to go off
12 together; number threes are going to go off
13 together; number fours are going to go off
14 together. And this is going to allow the
15 rock to fall or crack in a certain way.

16 And I've actually seen this done in
17 quarry blasting where it looks like a loaf
18 of bread as the rock falls, it's
19 (demonstrating). So the blasters can
20 actually cause the rock to fall and crack in
21 a certain direction; again, minimizing
22 impacts to associated structures. So that's
23 another beneficial side effect of using
24 delays.

25 Now, when I'm talking about protecting

1 endangered, threatened species, this is what
2 I'm talking about. Now we're back to that
3 Navy diver radius that I mentioned.
4 Everybody remember that we're confining,
5 we're reducing the pressure up to 90
6 percent. Then take that, throw it up and
7 wad it away. Because when we talk about
8 protecting species, we don't give ourselves
9 any credit for that reduction. I want to be
10 exceptionally conservative when I'm dealing
11 with species protected under the Endangered
12 Species Act and/or the Marine Mammal
13 Protection Act.

14 So what we end up doing, our drill
15 boat -- this is actually what we used at
16 Miami Harbor. So in this case, I had an
17 average delay rate of 90 pounds, and here is
18 my drill barge, and I set up a group of
19 zones. My inner zone is called the danger
20 zone. And you can see the mathematical
21 equation here for the danger zone. And we
22 get the danger zone radius, and that's going
23 to be the inner one. And with 90 pounds, if
24 I plug 90 in to that little
25 pounds-per-delay, that W right there, that's

1 where the W comes in, pounds-per-delay, I
2 end up with 1278 feet.

3 Now, that is the area in which, if an
4 animal were to be present, we would have a
5 situation that we call a take. Now, it is
6 not a lethal take, it is what we call
7 harassment. Anybody ever been to a really
8 loud concert and had a great time and walked
9 out afterwards going, I can't quite hear
10 anything, my ears are ringing? That is
11 actually what we deem harassment for
12 purposes of manatee or turtle or a dolphin,
13 we're going to make their ears ring if
14 they're too close to the shot.

15 So what I want do is I want to avoid
16 that. To avoid that I put another radius
17 around that 500 feet farther out. We call
18 that the exclusion zone. And we set up a
19 set of monitoring stations and we're looking
20 for animals. And if an animal enters the
21 exclusion zone, we all get to sit and wait.

22 I can't go and cajole the animal out. I
23 can't tease him out. I can't beg him. I
24 can't feed him, because those are all
25 violations of federal law. So we all just

1 sit and wait for the animal to decide to
2 leave of its own volition.

3 After the animal has left or after we
4 haven't seen it for 30 minutes -- and I bet
5 all of you are saying, wait a minute, why 30
6 minutes? Because all of the animals I'm
7 talking about are air-breathing animals.
8 They have to come to the surface and none of
9 them can hold their breath for longer than
10 about 25 minutes. So again, being
11 conservative, giving myself a little bit of
12 cushion there with 5 more minutes, didn't
13 see anything for 30 minutes, now we can fire
14 the blast.

15 So we have another radius here, this is
16 our safety radius. This is where we're
17 going to monitor with boats. I'm going to
18 show you that in a minute.

19 Then we have our big watch area that we
20 monitor with aircraft. Now, if you look at
21 Miami Harbor, the one thing you'll notice is
22 all this bay down here. Jacksonville
23 doesn't have that. The St. Johns River is
24 this nice river that has banks on either
25 side, so an animal is going to approach from

1 the left or the right or the north or the
2 south, depending on where my drill barge is.
3 And these animals all have to come to the
4 surface again to be seen and noted.

5 Remember I showed you a project in New
6 York Harbor. They had harbor porpoises in
7 New York Harbor. They've used this in
8 Boston, again with harbor porpoises.
9 Wilmington doesn't have really clear water,
10 it's actually in a river just like we here
11 in Jacksonville have the same kind of water
12 clarity. Didn't have any problems.

13 The animals all come to the surface. We
14 keep track of them, plus they're very easy
15 to see from the air, as well. And in fact,
16 Jacksonville University does a lot of
17 manatee monitoring and dolphin monitoring
18 from the air, so we know that methodology
19 would work here in Jacksonville.

20 So some of our monitoring methods. I
21 mentioned aerial surveys with a helicopter.
22 It's such fun to sit in a helicopter with
23 the doors off and pray the seatbelt holds as
24 you're hanging out the side.

25 Drill barge, we'll have two observers on

1 the drill barge, one looking each direction.
2 Then we'll have two small boats on the water
3 on either side of the drill barge in that
4 safety zone looking for animals. And
5 they're communicating back and forth by
6 radio, as well as if we need to even go to
7 red hand flag. So if a radio flags, we
8 don't have reason to fire that shot until we
9 fix the problem.

10 One of the other things that we did for
11 the first time at Miami Harbor, this is
12 cutting-edge stuff, we actually recorded the
13 pressures in the water from a confined
14 blast. This had never been done before. We
15 had the information from unconfined blasting
16 going all the way back to the 1940s.
17 Remember they were talking about how do we
18 protect Navy divers.

19 So the Loveless organization, the same
20 gentleman that gave us the medical test for
21 the space astronauts, did tests using
22 monkeys and sheep and goats and various
23 animals and subjecting them to unconfined
24 blasting, because obviously you can't
25 subject humans to it.

1 But additionally, they actually pulled
2 out data from World War II fighter pilots.
3 And gentlemen who were on ships that sank as
4 munitions were going off in the water.
5 Those gentlemen's bodies were exposed to
6 pressure, and notations were made about what
7 happened to them as this occurred. So they
8 compiled all that data, we have a ton of
9 data about unconfined blasting. We had zero
10 data about confined blasting.

11 So as we went into Miami Harbor, there
12 was some very interesting times for me,
13 first of all, as a marine biologist walking
14 in the door of the Corps of Engineers. And
15 then for two weeks they assigned me this
16 project; ironically enough, my first job
17 with the government was in Miami Harbor
18 writing down and tracking bottlenose
19 dolphins. These were like my kids. I
20 actually knew them by name, by sight, and
21 here I was going to go down and allow
22 somebody to blow up bombs next to them.
23 Wait a minute.

24 Fortunately for me, some of the project
25 management staff in Jacksonville district

1 very quickly realized that they could not
2 have me going, you're going to kill
3 everything. So they sent me to, of all
4 places for a biologist, blasting school.

5 I'm probably -- and I joked with
6 Dr. Aconya earlier today -- one of the only
7 biologists I know who has basic blast design
8 certification. Thank you, Dr. Aconya. But
9 I had to learn that this actually is not
10 what I thought it was. It's not that huge
11 impactful thing that we talked about.

12 So one of the things that I pushed for
13 very, very heavily for Miami Harbor was we
14 need to capture these lessons learned and be
15 able to use them in the future. We need to
16 capture this and we need to report it and we
17 need to get it in the peer-reviewed
18 literature. We need to fill that gap.

19 So one of the things, we took pressure
20 transducers and we set an array of pressure
21 transducers off of the drill barge. And we
22 actually captured the pressure data from
23 different distances and different depths.
24 That allowed us to characterize what the
25 blast looked like using an oscilloscope; you

1 can see it right here.

2 We also used hydrophone, just like if
3 you've ever watched the Discovery Channel,
4 you'll look at them lowering the hydrophone
5 down, these special hydrophones that can
6 deal with the pressure changes and they've
7 recorded those. And I'm actually going to
8 play you one of the blasts under the water
9 so you can hear what it sounds like in a
10 little bit. But we recorded all this data,
11 took it, and I'll show you in a little bit
12 what kind of publications we used.

13 One of the other things we did at Miami
14 Harbor that will be -- it's important in any
15 blasting job and it will be just as
16 important here in Jacksonville, because
17 we're an urban river with people living and
18 working right near it, is seismic and
19 vibration monitoring. In an urban
20 environment like Jacksonville, surrounded by
21 commercial properties, residential
22 communities, protecting structures is
23 paramount.

24 Well, once the areas of the project that
25 require blasting have been determined,

1 critical structures within the blast zone
2 will also be determined by our geotechnical
3 team and with the contractor. And they will
4 actually do a pre-blast survey and a
5 post-blast survey.

6 A couple of things that happened to us,
7 one in Miami Harbor, there is a very, very
8 large community of condominiums immediately
9 south of the port. We got a phone call one
10 day from a lady who lives on Fisher Island
11 and she said, I'm really, really worried
12 about my house. Can you come out and, you
13 know, put a monitoring device? I need to
14 know what's going on.

15 So a team went out and installed a
16 seismograph. It's basically the same thing
17 that you use for earthquake monitoring, for
18 those of you, if you've ever heard about
19 seismographs. They were sitting in her
20 house talking to her and she finally said,
21 you know, I've got to go. When is this
22 thing going to go off? And the geologist
23 said, well, it went off about 20 minutes
24 ago. And he could see it on the
25 seismograph, but it was so minor she

1 couldn't feel it. And this was immediately
2 adjacent to the blast.

3 The other example that I'll use for you
4 for those of you that are familiar with San
5 Juan, Puerto Rico, this is the El Morro
6 Port. It's on the headland right as you
7 enter the Port of San Juan. Here is the
8 entrance channel right here. And the park
9 service was extremely concerned about us
10 blasting immediately adjacent to a
11 400-year-old fort. This is a national
12 monument. It's not replaceable. They said,
13 yeah, well, we're really not happy.

14 So again, what the contractor did with
15 the Corps was they went in and found every
16 crack in the stucco and they took a
17 photograph of it. And in some of them they
18 installed these crack monitoring devices to
19 actually see if the cracks got bigger or
20 longer. And they put an array of
21 seismographs throughout the national
22 monument.

23 And what was interesting was that once
24 the blasting was all done, they were able to
25 go back to the park service with the data

1 and point out to them that, A, the blasting
2 hadn't had any effect on the fort, but, oh,
3 by the way, that big road with all those
4 trucks driving by it every day was actually
5 damaging the fort. This was something they
6 didn't know about because nobody ever
7 thought to put a seismograph in the fort or
8 an array of them and collect this kind of
9 data. So, again, protecting structures.

10 So where vibration damage may occur,
11 there are energy ratios and peak particle
12 velocities that are set by local law and
13 state law that require certain limitations.
14 And the contractor has to meet those
15 limitations, as well. And you can see
16 whichever the state or the county
17 requirement, whichever is more astringent,
18 so that is a requirement of our blasting
19 code that I know our geotechnical folks can
20 address a little bit more in detail if you
21 have questions on that.

22 Now, what I'm going to do is show you an
23 actual recording of a blast from the surface
24 from the drill barge. This was August 2nd
25 of 2005. This was 16 holes. Remember that

1 array that I showed you uses 16 holes. 67
2 pounds was the maximum weight of the delay
3 and you have 16 delays for a total of 1,105
4 pounds of explosives.

5 No, no, no. Let's try this one more
6 time.

7 Okay. I'm going to try to do this a
8 different way because I have the video here.
9 Let me see if I can get it to play a
10 different way.

11 Well, hold that thought. I will play it
12 as soon as we get him back. But what I do
13 want to also play for you, listen very
14 carefully, you'll be able to hear the delays
15 in the shot, okay. So let's try this one.

16 And that's not going to work either.
17 Next time we're using my laptop; just
18 saying.

19 Okay. I'm going to play it again and I
20 want you to see if you can hear it go
21 (indicating). Those are the delays. It's
22 not boom, it's (indicating). And that is
23 each of the delays firing off sequentially,
24 if I can get him to come back and let him
25 play it. I've got it on the computer, I

1 just can't figure out how to drag it to the
2 main screen, because he's got this split and
3 I can't -- we can play it on my laptop in
4 the back afterwards if we need to.

5 So we talked about results. Again, we
6 did a lot of monitoring, what kind of things
7 did we see. We did 40 shots. Remember I
8 said originally we'd estimated 250. The
9 contractor we brought in only needed 40
10 shots in 38 days to get the work done
11 between June and August of 2005, blasting
12 six days a week. Miami Dade County
13 ordinance does not allow them to blast on
14 Sunday, so Sunday was out.

15 186 animals observed, 58 of them were
16 dolphins, 110 of them were manatees, 16 of
17 them were turtles. We had 13 times that we
18 had delays to insure animal safety. 31
19 percent of those were dolphins and 31
20 percent of those were manatees. And
21 ironically enough, our biggest issue was sea
22 turtles.

23 I guess we have actually a nice benefit
24 here in Jacksonville that above river mile 6
25 we don't have sea turtles, too fresh. So

1 from river mile 6 south, or east, don't have
2 to worry about sea turtles north of river
3 mile 6. It's actually too fresh, the
4 turtles won't be there. So remove those
5 guys at that point.

6 And the average distance that we saw the
7 animals from the array was 2,000 feet for
8 dolphins, 3,500 for manatees and 500 for sea
9 turtles. Sea turtles were closer typically
10 to the array, and we believe that's because
11 the sea turtles in the area habituated to
12 being in a port environment. The port is
13 immediately adjacent to where they hang out.
14 They're used to the ships, they're used to
15 people, they're used to speedboats, so
16 there's no reason for them to leave.

17 Now, when we talk about the effect on
18 marine mammals, if I use a 450-pound
19 unconfined blast, remember, I'm not giving
20 myself any credit for confining the shot,
21 and I look at the danger zone, we measured a
22 maximum pressure at the edge of the danger
23 zone of 23 pounds per square inch. And that
24 was actually 700 feet from the blast. You
25 remember how big I said the array was when

1 we were looking at 1278? So not even to the
2 edge of the danger zone and we get to our
3 maximum pressure that we thought was 23. So
4 we get all the way to the edge of the danger
5 zone or less than that.

6 I mentioned earlier that we do have a
7 situation if an animal is in the danger zone
8 of having a harassment take. That is set
9 forth by the National Marine Fishery Service
10 under the Marine Mammal Protection Act. And
11 they say the maximum threshold they have to
12 take would be 22 psi's. It's not lethal or
13 injurious, but it is harassment. So if an
14 animal were inside the danger zone, we just
15 said, that's a take, even though we know
16 there's a buffer between the edge of the
17 radius and 700 feet.

18 The safety zone, which is farther out,
19 the maximum pressure was significantly less
20 than 23. Within the zone and this take hold
21 was 22, so we didn't have -- we wouldn't
22 have take and we wouldn't have harassment.

23 Now, when we talk about fish, do I have
24 any fisherman in the room? Okay. Got some
25 folks concerned about fish, and I know I

1 like to go fishing. If I'm talking about a
2 fish with no swim bladder like a shark or a
3 ray, and I'll show you these right here,
4 these guys don't have swim bladders. The
5 research tells us this has actually no
6 effect on them because the issue for animals
7 is a change in pressure in a gas-bearing
8 organ. So either we're talking ears for a
9 person or in the case of a manatee they tend
10 to end up with a lot of gas in their
11 stomachs or in the lungs. These are
12 gas-bearing organs. These are things that
13 would expand and contract associated with
14 those pressure waves passing over you. If
15 you don't have a gas-bearing organ like a
16 shark and a ray, you don't have a problem on
17 your hands.

18 So no effect to fishes without swim
19 bladders. We're talking about a fish with a
20 swim bladder, again, looking at the
21 unconfined data that was in the literature,
22 open water shot, there were three different
23 studies that were done. One of them said if
24 you get to 14 psi, you start having issues.
25 That's the one that's still currently used

1 by the Canadian Department of Fisheries and
2 Oceans.

3 Another study done in 1952 looked at a
4 range between 40 and 70 psi and a study done
5 in 1995 by Dr. Tom Keevin said 50 psi. Now,
6 ironically enough, if you get to a confined
7 shot, 14 psi is what we saw in Miami Harbor
8 and that was done by Hemper in 2008. So
9 again, taking and answering questions that
10 were previously unanswered.

11 Here is the safety radius again for that
12 260 W to the third for an unconfined blast.
13 So if I'm trying to figure out the distance
14 that I'm looking at for a confined shot
15 where I might have fish injury or fish kill,
16 51. So it's one-fifth of what we would see
17 in an unconfined shot. So the safe distance
18 for fish at a 14 psi, which was the most
19 conservative, remember, an unconfined from a
20 90-pound shot would be 1,148 feet. But
21 Dr. Hemper was able to show that, for a
22 confined shot of the same rate, it's 570
23 feet. Fish within the 570-foot range would
24 likely survive, considering the observations
25 of both the Hubb's and Rechnitzer paper and

1 Dr. Keevin in 1995.

2 One of the things that we did in Miami
3 Harbor that we're doing again in the
4 upcoming job and is sort of becoming
5 standard is we put teams on both after the
6 shot who go in this nest and recover the
7 fishes that do float to the surface. We
8 can't go down and collect them on the
9 bottom, but there actually was a team that
10 went down to the bottom of Miami Harbor to
11 see, well, how many fish are down there.
12 And it was like about five or six during a
13 whole shot, but we had about 20 on the
14 surface.

15 So if I look at the fish monitoring, we
16 had, again, 40 shots between June and August
17 of 2005, and we used something called a fish
18 scare. Right before the shot goes off, we
19 actually fire off a small firecracker under
20 the water to try to scare the fish out of
21 the area so we have fewer fish closer to the
22 shots to, again, lessen the impact.

23 We had 23 of these shots monitored by
24 the Florida Fish and Wildlife Conservation
25 Commission where they were out there with

1 boats picking up the fish. Our average
2 number of fish was 14 and the maximum number
3 of fish we had was 38. And most of these
4 fish were small scrawled filefish or
5 cowfish. There were no commercially or
6 recreationally targeted seafood like snook
7 or tarpon or grouper that were recovered. I
8 won't try to play that on the video because
9 you won't see it. I have it in the back and
10 I'll show it to you there.

11 Now, when we talk about invertebrates,
12 particularly shrimp here up in Jacksonville,
13 a literature review of the effects of open
14 water blasts on invertebrates including
15 corals and arthropods and arthropods that
16 include shrimp that were done by Dr. Keevin
17 and Hemper in 1997 looked at all the
18 available peer-reviewed literature on
19 unconfined -- remember, the worst case --
20 and said that the results of all of the
21 studies reviewed indicate that invertebrates
22 are insensitive to pressure-related damage
23 from underwater explosions.

24 This may be due to the fact that all
25 invertebrates species lack gas-containing

1 organs. They don't have that organ to
2 contract and expand and cause the issue, so
3 hence they are insensitive. We have
4 consulted with the National Marine Fishery
5 on this for our upcoming Miami Harbor
6 project for corals and they have concurred
7 with our determination.

8 Now, one of the other things that we put
9 together for Miami that we'll be using again
10 in every project that we've done, because it
11 really did set the standard, was a
12 communication and coordination team led by
13 the Corps. We had the Port and the local
14 counties, our contractor, their
15 subcontractors, the federal resource
16 agencies, the state resource agencies, the
17 local county or city resource agencies and
18 nongovernmental organizations. These are
19 your environmental organizations; in the
20 case of Jacksonville Riverkeeper would be a
21 good example, so would the Sierra Club.

22 One of the things that we did is we had
23 a blasting workshop where we brought in
24 experts to teach the resource agency staff
25 about blasting. I can tell you from my

1 copious amount of environmental education,
2 biologists don't go to blasting school, so
3 it's not part of the regular biological
4 training that we go to to become biologists.
5 As Dr. Aconya can well-attest to you, like I
6 said, when I started with the district, I
7 said, you can't do this, you'll kill
8 everything. Nobody never sat me down and
9 taught me about confined underwater
10 blasting.

11 A blasting workshop was also held for
12 the public by the contractor. That is a
13 requirement of our blasting specification.
14 So if blasting is used at Jacksonville,
15 there will be at least one blasting workshop
16 conducted by the contractor who will be
17 doing the blasting here on the project. And
18 we also arrange for visits to the worksite
19 by resource agencies and interested parties,
20 including the press.

21 The contractor that we had at Miami
22 Harbor also created this flier that they
23 insert into the Miami Herald. So every
24 person who got a copy of the Miami Herald
25 got a copy of this delivered to their

1 doorstep in case they had any questions
2 about blasting at Miami Harbor.

3 We also had monthly meetings on site.
4 They were held in Miami. Obviously it was a
5 more convenient location for most of our
6 stakeholders, it was their backyard. We had
7 conference calls for those who were unable
8 to travel, we reviewed our project progress
9 and previewed upcoming events. And I think
10 it made a huge difference for all parties.

11 We maintained open communication lines
12 between agencies, the stakeholders, the
13 contractors of the Corps. I started to
14 affectionately call them the good, bad and
15 ugly meetings because we told everybody the
16 good, the bad and the ugly; what's going on,
17 what's happened, what are we doing to fix it
18 if we've had a problem. My project manager
19 just loved putting me on a plane once a
20 month every month to fly me to Miami.

21 Now, one of the things I mentioned was
22 that we worked to answer questions.
23 Confined underwater blasting was a newer
24 methodology to resource agencies. They're
25 familiar with military ordinance, some of

1 them working with military ordinances since
2 some of them came into existence. The Navy
3 and the Army are all about doing things with
4 military ordinance.

5 But here we were talking about this
6 confined thing. As a result of the work
7 that we did on phase 2, there is now a large
8 database of information regarding confined
9 blasting, and in allowing to successfully
10 perform future confined blasting programs in
11 equally sensitive areas. I mentioned the
12 project in Portland that was completed with
13 the Columbia River. They were blasting
14 there with endangered salmon.

15 Any of you familiar with what's going on
16 in Columbia? There's a lot of endangered
17 salmon species that use the Columbia River
18 to get up into the mountains to breed. They
19 had to go right through the blasting zone,
20 and so they were able to use a lot of our
21 data to work with the agencies.

22 We're working obviously -- I've been
23 asked to help consult on Jax Port. We are
24 also working at Tampa and we've been brought
25 in by our Alaska district to work with them

1 on the deepening of the Coast Guard station
2 in Kodiak, Alaska. They've got these cute
3 little fuzzy little guys floating around out
4 there who obviously they don't want to
5 impact any endangered sea otters in Alaska.
6 So they're asking us to come in and help
7 them prepare public meetings, informational
8 sessions, how did you guys do it in
9 Jacksonville. You had manatees and
10 dolphins, you have turtles. How do we do
11 this? So, again, lessons learned and paying
12 it forward.

13 And one of the things that I think I'm
14 most proud of, because I jumped up and down,
15 screamed, hollered and stomped my feet a lot
16 to make this happen, was we got published in
17 peer-reviewed literature and did
18 presentations. For the first time ever, we
19 took the lessons learned from a project like
20 this, wrote them up and put them in
21 scientific journals reviewed by our
22 scientific peers and put those papers out
23 there, so now they're available to
24 everybody.

25 We went and presented at a variety of

1 conferences. The Ocean Scientist
2 Conference; it was a special session on
3 acoustics, noise in the environment, and I
4 was asked to present at that.

5 We presented at the 15th and 16th
6 Conference on the Biology of Marine Mammals.
7 And again, we had a slew of articles and
8 interviews, National Public Radio, Comcast
9 Newsmakers, U.S.A. Today, Miami Herald,
10 Jacksonville Times Union, etcetera, trying
11 to get the information out, not just to the
12 blasting community, but to everybody else.

13 Education is part of what I wanted to do
14 with this, and I had to fight a little bit
15 because it was sort of a new paradigm for
16 the Corps. It's always been, we got the
17 data, put it on the shelf, maybe we'll get
18 to use it next time. And I said, we need to
19 make this more public and get it out there
20 because either it's going to be easier next
21 time or it's going to be harder next time.

22 And what was really interesting was when
23 we went to go get our permits for Miami
24 Harbor for the one that's coming up this
25 summer, our counterparts in the agency said,

1 well, are you going to do it like you did
2 the last one? And we said, well, of course
3 we are. Then they said, then we don't have
4 any problems, which was a complete paradigm
5 shift because everybody was like, wait a
6 minute, you don't have -- you're happy with
7 that, okay, so we don't need to change
8 anything.

9 So the conclusion: Confined underwater
10 blasting, again, can be used as a
11 construction technique to crack the rock
12 with minimal impact to marine organisms
13 living in our project area when proper
14 monitoring and safety precautions are
15 established.

16 And we have the protocols from the
17 beginning of the project planning, which is
18 why I've been asked to come in early on the
19 Jacksonville Harbor project and get those
20 protocols in as part of the supplemental EIS
21 and any permitting packages so that those
22 are upfront considerations, not
23 after-the-fact considerations.

24 And with that, I will hand it over to
25 Amanda and let her go from there. And like

1 I said, I can show you the videos in the
2 back on my laptop, and I'm going to get lots
3 of feedback here.

4 MS. ELLISON: Thank you, Terri, for your
5 presentation.

6 At this time we're going to open up the
7 floor for any questions or comments that you
8 might have. We do have a court reporter in
9 attendance tonight, so what we're going to
10 do is ask you to come to the microphone,
11 line up one behind the other and ask your
12 question or make your comment. And she will
13 be recording so we do ask that you please
14 state your name and spell it for us so that
15 we can have it for the official record.

16 Also, if you do not want to make a
17 verbal comment, we have comment cards that
18 you should have received when you signed in
19 this evening. If you didn't, there's still
20 some outside and I can get them for you. If
21 you would, just fill that out and you can
22 submit that for the official record, as
23 well.

24 So right now if we have anyone that
25 would like to come up and make a statement,

1 ask a question. We'll also have our team of
2 experts up here to answer those for you and
3 when this portion is over, we'll have
4 technical experts in the back to meet and
5 speak with you and answer any questions you
6 have for as long as you need this evening.

7 MR. RAGSDALE: John Ragsdale, chairman
8 of the board of the St. Johns Riverkeeper.
9 What are the expected effects on river
10 turbidity from the blasting and what is the
11 Corps' plans to control that?

12 MS. JORDAN-SELLERS: Blasting has low
13 turbidity, in fact, because you're going
14 down into rock and there's a very small
15 amount of turbidity that comes up with that.
16 And if I could have shown you the video, you
17 would have seen, when the shot goes off,
18 there is a small like a boil where the water
19 comes up with the gas, that 10 percent does
20 come up to the surface. It's a very, very
21 small plume when you look at the bigger
22 picture as compared to dredging. It will be
23 something that is part of the monitoring,
24 but under the Clean Water Act that is
25 considered de minimis turbidity, so it's not

1 something that's been documented as having
2 significant problems.

3 MR. SUMMA: And we will be required to
4 get an authorization from the State of
5 Florida under the Clean Water Act to insure
6 that we meet turbidity standards. That will
7 be a standard requirement.

8 MR. HILL: I'm John Hill. I live on the
9 north side of the river. I've heard
10 everything tonight that has assured
11 everything that the sea life and everything
12 is taken care of. I've watched dredging
13 over the years coming up and down the river.
14 And I've seen washouts, I've seen collapses
15 over, and basically they fall within the
16 realm of the dredging. The Corps says
17 there's no correlation to it.

18 I'm going to ask you a specific
19 question. You come in there and I know it's
20 contained and it's very minimal, bam, we
21 have collapse of property. What are you
22 going to do about it? I see the south side
23 of the bank reinforced with major granite
24 rocks. I see nothing on the north side of
25 the river because they say the deeper side

1 is on the south side. However, the ships
2 run to the northern side, all the tubs run
3 on the north side, we get all the power wash
4 of everything that happens. Explain to me
5 why and what you're going to do in the event
6 something happens at that point.

7 MS. JORDAN-SELLERS: Well, first I'll
8 start out by saying I'm a biologist, so I'll
9 pass that on to the project manager, because
10 I'm not an engineer and I don't even play
11 one on TV. So I don't go into areas that
12 aren't my expertise, so I'll pass that off
13 to our project manager.

14 MR. HARRAH: I know that's a point of
15 contention a lot of folks have. I've heard
16 the stories from the previous project
17 manager of some of the issues raised by
18 various communities. I will tell you
19 during -- first, to answer your question,
20 what happens if we're dredging and something
21 happens, you know, an issue happens on one
22 of the properties, our district, our
23 engineers, the contractors' representatives,
24 we're required to investigate that to see
25 what the cause was, to make an investigation

1 and make a determination of what we
2 anticipate the cause was. So that's
3 required during construction.

4 I will tell you that everything we've
5 done from economics, we've invested millions
6 of dollars of modeling so far for this.
7 Everything we've done indicates that we will
8 not have any issues like that for our
9 deepening project. Our environmental impact
10 statement will address that, as well.

11 But I encourage you, if you have
12 specific concerns like that, too, when the
13 report comes out, make those public on the
14 record and the question -- you know, period,
15 and we will address them formally in a
16 response. Everything we've done, we don't
17 anticipate having any issues like that.

18 MS. HILL: Are you saying we're getting
19 no rocks?

20 MR. HARRAH: Could you come up here?
21 I'm sorry.

22 MS. HILL: Sure.

23 I'm Susan Hill. So you did not answer
24 his question. Are we getting rocks to
25 protect our property?

1 MR. HARRAH: In our current feasibility
2 project, we do not have rocks listed in
3 the -- well, we have not got the plans and
4 specs pages yet. That's later down the road
5 in October when we start that.

6 MS. HILL: Is that before or after you
7 get approved?

8 MR. HARRAH: We get approved in April
9 2014 for the chief's report. We start the
10 design in October 2013 and that goes
11 parallel with the final report being
12 completed by Congress.

13 MS. HILL: In your design, I still don't
14 hear rocks. You said we design --

15 MR. HARRAH: We haven't designed it yet.
16 I mean, that will start in October when we
17 start looking at all the designs, anything
18 that needs to be completed in October 2013.

19 MS. HILL: Okay. So you need everyone's
20 input; is that right?

21 MR. HARRAH: That's right.

22 MS. HILL: Then -- this is greatly then.
23 Can you please tell me why everyone who will
24 be affected by this project was not notified
25 of this meeting? We are all listed on

1 coj.net, you've had our names and addresses,
2 who is on the St. Johns River. We have to
3 hear by word of mouth that this meeting was
4 held tonight. Can you tell me why everyone
5 was not notified who is directly affected by
6 this?

7 MR. HARRAH: I guess sometimes -- first,
8 I do apologize you weren't directly
9 notified. I do know that it was in the
10 Florida Times Union. It was in the paper --

11 MS. HILL: Does everybody get the paper?

12 MR. HARRAH: It was on National Public
13 Radio. I do apologize --

14 MS. HILL: It was not on TV. I looked
15 for stuff on TV.

16 MR. SUMMA: I'm so sorry about that. We
17 just did it on the radio this morning. This
18 is the fourth of five public meetings that
19 we're having, so this is the fourth one.
20 I'm sorry if you haven't been notified of
21 the prior four. Our intention is to be
22 clear, open and transparent about this
23 process.

24 MS. HILL: So are you going to let
25 everyone else know and give them back

1 information that are affected by this, since
2 you're going to be direct?

3 MR. HARRAH: We will have another public
4 meeting. The report will come out May 6th.
5 That's the date the report actually hits the
6 streets. It's on the website, everybody can
7 download it to their personal computer --

8 MS. HILL: Everybody who knows and
9 everybody who has a computer. I know people
10 across the street from me -- excuse me, next
11 door that are on the river who do not have a
12 computer.

13 MR. HARRAH: Did you take the personal
14 information? I mean --

15 MS. HILL: For me, because I was here.

16 MR. HARRAH: I understand. What we need
17 to do is make sure all the folks in the
18 room, we get their addresses and they'll get
19 a personal invite to the next meeting.

20 MS. HILL: Not only the people who are
21 here, the people who are on the river and
22 are directly affected.

23 MR. HARRAH: Yes, ma'am. Understood.

24 MS. HILL: Thank you.

25 MR. HARRAH: You're welcome.

1 MR. PELLEGRINI: Well, I guess you know
2 me because I've been directly affected
3 numerous times. I've lost two docks and
4 I've lost -- just recently in November I
5 lost my bulkhead and my next-door neighbor
6 lost her bulkhead. And these aren't little
7 routine current movements. These are major
8 shifts in the bottom where literally 20 feet
9 will disappear, and it will just take
10 everything that's above and take it below.

11 And then, like my first dock I lost was
12 100 foot, and I could take 75 feet of it and
13 I could walk out at high tide and it was
14 only this deep. Now it's -- it was, after
15 my first experience, 32 feet. Now it's down
16 to like 26 feet. And then just recently my
17 bulkhead, which collapsed, was -- the depth
18 at high tide was like three or four feet.
19 Now it's 10-foot deep there and I completely
20 lost my bulkhead and I had to build a new
21 one. And I had to build it stronger this
22 time, a lot stronger.

23 But I guess -- and I can show all the
24 impact to my area. I've got film and I've
25 also got photography on everything. And I

1 can show where we used to have sawgrass
2 across there and we used to have a beach.
3 You know, at low tide we had a big beach.
4 And that's all gone now because now the
5 water is all the way up to my bulkhead.
6 It's 10-feet deep.

7 So I can document all this and show you,
8 go through a video presentation and show you
9 every bit and document the times and
10 everything if you would be willing to see
11 that.

12 But my main reason I came up here was to
13 ask you where will the turnaround zone be in
14 the river?

15 MR. HARRAH: That's a good question. If
16 you go back to that other presentation, I'll
17 show you.

18 MR. PELLEGRINI: I'm sorry I didn't --
19 my name is Don Pellegrini and I live on
20 Raymond Drive.

21 MR. HARRAH: One thing I mentioned, too,
22 before we do this blasting, we are required
23 to go to the individual properties along the
24 banks that potentially could be impacted and
25 we do pre-surveys from an engineering firm.

1 They go look at the properties, measure
2 everything out, blast goes off and they do
3 post-surveys, as well. So they see if there
4 are any cracks that form, is there any
5 property that's been damaged. So those are
6 both done and completely documented.

7 In the event there are impacts
8 encountered, that's what contractors are
9 bonded and insured for. That's the whole
10 reason they get bonded and insurance, so
11 just something to keep in mind, as well.

12 Anyways, as I said, the deepening will
13 occur from the entrance here -- now, keep in
14 mind, some of this is already 50 feet due to
15 the Navy.

16 MR. PELLEGRINI: Yeah. They're dredging
17 there right now.

18 MR. HARRAH: Right. We'll come all
19 through here. There will be a couple small
20 rounding features here and here just to
21 cover two-way traffic as vessels are coming
22 in and out of channels.

23 MR. PELLEGRINI: Where was that
24 widening? I hate to be --

25 MR. HARRAH: No. That's fine.

1 MR. PELLEGRINI: Out neighborhood is
2 right there and if you --

3 MR. HARRAH: The widening will be on the
4 south bank. Correct, Steve? It's on the
5 south.

6 MR. PELLEGRINI: From my understanding,
7 the last time you all dredged, not only did
8 you dredge the channel, but you dredged
9 towards us on the other side of the red
10 buoy, which is buoy number 34. And after
11 that is when we started having all the
12 issues with the collapses and stuff.

13 MR. HARRAH: I can't speak to that. I
14 wasn't here. I was in West Virginia.

15 MR. PELLEGRINI: Show me the turnaround
16 again.

17 MR. HARRAH: The turnaround will have
18 one turning basin in here and one turning
19 basin here.

20 MR. PELLEGRINI: Okay. They have been
21 turning around, the Navy ships, right in
22 front of my house, so --

23 MR. HARRAH: This will be the -- what we
24 do is do a ship simulation report. And they
25 run the models, they talk to the pilots to

1 see where they're having issues. And
2 ultimately it was decided that this would be
3 a turning basin and there be a turning basin
4 here, as well. I do know that.

5 MR. PELLEGRINI: Well, I'm happy you're
6 not putting one in front of our house, I can
7 say, because they are turning around -- the
8 Navy -- the Marine Corps ships right there
9 in front of our house, which is where the
10 peninsula comes out in White Shell Bay.
11 We're right there, you know, a little bit
12 back from there from the peninsula.

13 That's it. Thank you.

14 MR. HARRAH: Anyone else? Again, please
15 give your name so the court reporter can get
16 it.

17 MR. HILL: My name is Curtis Hill. I
18 live at 6834 Raymond Drive. I think
19 everyone in this room is all for the Port
20 increasing revenues in Jacksonville,
21 providing jobs for everyone. We know what a
22 major situation that is in the country
23 today. And with the deficit spending going,
24 it seems like the only way we're going to
25 get out of it is to, you know, reverberate

1 the economy and get jobs for people and that
2 type of thing.

3 But what I'm concerned with is this:
4 We're spending, I don't know how much,
5 hundreds of millions of dollars probably, on
6 this one project, okay. And I think
7 basically the people on Raymond Drive need
8 some consideration on the front end of the
9 project rather than being post-active,
10 rather than reactive to the situation and
11 whatnot.

12 And we know that you came in and lined
13 the entire side of the other river by those
14 huge granite rocks and whatnot, you know.
15 And so all we're asking is that you consider
16 doing that for us before you start the
17 project.

18 Now, in this particular case, you've got
19 a lot of engineering statistics and
20 everything to back up studies and that type
21 of thing, okay. But -- and I believe
22 they're true, okay, that this should happen
23 unless something goes forward that we hadn't
24 considered in the initial calculations of
25 the thing and whatnot.

1 But our problem is not only with the
2 blasting, it's with the dredging that's
3 going to occur after that, okay. Because
4 what you're doing is you're deepening that
5 river channel, and I know, I've heard a lot
6 of comments that it doesn't affect the bank
7 area at all and whatnot.

8 But I can build you a sandbox, okay, and
9 we'll dig a channel down the center of it,
10 and it will start to fill in from the sides
11 of the river, okay. Now, if I take that
12 another seven feet or whatever is proposed
13 in this proposal, it's going to continue to
14 slide in and whatnot, okay. I don't have to
15 have a lot of engineering studies to prove
16 that or to show that.

17 So all we would like for you guys to
18 consider is, since hundreds of millions of
19 dollars are being spent, what we're
20 requesting is a very small economic impact
21 on this project, okay. And we would like
22 some consideration in that thing and
23 whatnot. That's question number one I'd
24 like an answer to, okay.

25 Question number two: You say this

1 ultimate decision will be made by Congress
2 before it goes back to your people for final
3 approval and whatnot. Is there a committee
4 in Congress that's responsible for this or
5 is it the whole congressional?

6 MR. HARRAH: Make sure I said that
7 right. Go back to the schedule slide.

8 After we do all the reviews, our
9 division engineer in Atlanta will approve
10 it. This is -- she was asking when will the
11 design start, and I was saying the October
12 2013 for the design. It is going on
13 parallel with the report going through its
14 final stages of the civil works review board
15 by our generals in Washington.

16 April 2014 is when the report is
17 finalized. And that's when we will send it
18 to Office of Management and Budget and
19 ultimately to Congress for authorization and
20 provision. Got to have the authorization
21 first, it has to be authorized under the
22 Water Resource Development Act, or awarded,
23 and then the appropriations would come from
24 Congress, actually.

25 MR. HILL: My question is is it full

1 congressional or just a committee?

2 MS. JORDAN-SELLERS: WRDA is a bill that
3 is like any other law. The house has to
4 vote on it, the senate has to vote on it and
5 the president has to sign it. So every
6 congressman, every senator and the president
7 will have to vote either yea or nay.

8 MR. HARRAH: And the last WRDA we had
9 was --

10 MS. JORDAN-SELLERS: 2007 was the last
11 time we had a national WRDA bill.

12 MR. SUMMA: And the WRDA is the Water
13 Resources Development Act project. That's
14 what WRDA stands for. These are the large
15 infrastructure projects.

16 MS. JORDAN-SELLERS: That's W-R-D-A,
17 Water Resources Development Act. They used
18 to be done every two years. We had one in
19 2000, then we didn't have one for seven
20 years. There was one passed the last year
21 of President Bush's administration, and we
22 have not had one since. There is currently
23 one in development in committee.

24 They've done this seven times where
25 they've tried to get it through committee

1 and then it doesn't get out of committee or
2 you get it in one side of the Congress doing
3 it and the other side not taking it up. So
4 unless they both come together, they agree
5 on a list of projects -- and these are
6 national. These are all around the country.
7 It's not just Jacksonville that would be
8 looking at being in this list. They have to
9 agree, they have to have an approved chief's
10 report from the chief of engineers. Then
11 that list goes to the president for
12 signature.

13 And that, again, is only authorization.
14 Then it is inherent on the Port and the
15 local community to lobby Congress to get the
16 appropriation to build. So you can have it
17 authorized, but that is not appropriated.

18 MR. HARRAH: And also the Port has the
19 opportunity in the State of Florida to build
20 it themselves if the federal money is not
21 coming through.

22 MR. SUMMA: If it's authorized.

23 MS. JORDAN-SELLERS: If it's authorized.

24 MR. HILL: We all have been good
25 neighbors with the Port. We all live out

1 there and we understand what the Port means
2 to this city and ultimately that that's a
3 huge growth vehicle for the City of
4 Jacksonville. So -- but all we're asking
5 for is some consideration on the front end
6 rather than this thing go all the way
7 through the steps and we're left holding the
8 bag and everybody says, well, it's done now.
9 You didn't come to us and say anything
10 before.

11 What we would like is a definitive
12 answer from the Corps and the Port telling
13 us either you're going to do something about
14 bulkheading in our area or you're not. And
15 if you're not, then we will call whoever we
16 have to call in our congressional districts
17 and whatnot and take a different route to
18 achieve what we want to do.

19 That's the last thing we want to get
20 involved in. I'm retired after 50 years in
21 the workplace and I don't want to spend my
22 retirement up there at meetings and getting
23 lost in whatever is going on in Washington,
24 anyway. They can't even get together and
25 pass simple bills up there now, so who

1 knows.

2 But all we want is for it to be
3 considered and then you all come out with
4 public statements saying, we're going to do
5 it for you, we'll strengthen the bulkheads
6 before we actually begin the dredging
7 project in the thing. And then I think
8 everyone on Raymond Drive will be very happy
9 campers and can support the project 100
10 percent rather than 90 percent at that point
11 in time.

12 MS. JORDAN-SELLERS: As Jason mentioned,
13 when the draft supplemental EIS hits the
14 street, it is open for a 60-day commentary.
15 My recommendation to you, as someone who
16 does NEPA, separate from what Jason does as
17 project management, that is your opportunity
18 to go on the record in writing that we want
19 this component considered. And then by law
20 the Corps has to respond to you in their
21 final EIS. And they have to come and say
22 either, yeah, we're going to do it, or no,
23 we're not and here's why we're not. So that
24 way you're on the record, it becomes part of
25 the administrative record under the National

1 Environmental Policy Act and you have it
2 then in writing as it moves forward up the
3 chain as Jason described it.

4 MR. HILL: Thank you. That's all we're
5 asking is some consideration. We don't need
6 to be considered stubborn when this is all
7 done. Thank you very much for your time.

8 MR. HARRAH: Thank you.

9 MR. DOYLE: I'm David Doyle. I'm a
10 property owner.

11 MS. JORDAN-SELLERS: Hit the yellow
12 button.

13 MR. DOYLE: I'm a property owner on
14 Raymond Drive right here where this point's
15 at, just a little bit inbound where the Hill
16 folks have their property. And I think what
17 we're asking for here is a little
18 consideration and a little time other than
19 engineering studies. I appreciate all the
20 time that people put in going to college and
21 getting degrees and getting smart, learning
22 all kinds of things, but there's obviously a
23 problem here that no engineer has figured
24 out if they cared, or we wouldn't have a
25 roomful of people here that have a problem

1 with what's going on.

2 I've lived down here since 1995. I had
3 to put literally hundreds and hundreds of
4 tons of concrete around the wall on the back
5 to keep it from washing it and my neighbor's
6 properties away. Because if we lose that
7 point right there, we're going to lose the
8 whole front all the way down through there.

9 There's an issue here. It doesn't take
10 an engineer to figure it out. Come out
11 there, live for three or four years, watch
12 the dredge boats go away, watch your
13 bulkheads go away after they leave.

14 Six years ago they tore down a big
15 two-story house next to mine. I got all the
16 concrete from the floor, from the footer,
17 from the driveway. I had a four-foot-high
18 wall of concrete all the way around the
19 front of my property and the side. These
20 folks would be happy to witness to that.
21 It's gone. It's not there anymore. Today,
22 right now, it is not there anymore. It
23 didn't get up and walk away. And I'm
24 getting too old to pick it up and carry it
25 around and put it there and place it

1 anymore. We've got to have some help.
2 That's all we're asking for. Somebody come
3 out here and give us some help.

4 Years ago when they were doing a lot of
5 dredging in the river, we came out with the
6 Corps of Engineers people, we met with
7 Tillie Fowler out here at the Heckscher
8 Drive Community Club. And someone was asked
9 about the same thing Curtis just referenced;
10 build a sandbox, put water in it, scoop the
11 middle out, what happens? The sides fall
12 in. Somebody from the Corps walked up and
13 whispered into his year: It's the sand from
14 Palatka. It's coming from Palatka. It's
15 not local.

16 Come on, folks. Let's have some
17 commonsense here. It's not the sand coming
18 from Palatka. When you squeeze the bottom
19 out of that river, the sides fall in. You
20 know what happened right after that? They
21 went over here and built this big beautiful
22 granite wall to protect that waterway.

23 And I noticed, after they did that, that
24 side stopped falling in. We don't have any
25 more big washouts or cave-ins going over

1 there, but we still have them over here.
2 This needs to be addressed.

3 I have no big problem with the extra
4 depth of the water and extra ships coming
5 in. Lord knows we need the jobs. What we
6 really need is to manufacture the stuff here
7 and not import it. That would be even
8 better, but right now importing it seems to
9 be the only way we have to go.

10 Another thing you mentioned earlier is
11 the turning basins down here. You need to
12 come out here -- again, it doesn't take an
13 engineer to figure this out. Every time
14 they put a big military supply ship back in
15 this port back here to load it up or unload
16 it, they bring it out here in the river and
17 they put four tugs on it and turn it around.
18 And I can tell you the turbulence that comes
19 off of that can be seen all the way to the
20 shore when they're doing it. That, again,
21 is washing that bank out. And if you're
22 going to deepen this, you're going to be
23 bringing in bigger ships and bigger tugs and
24 you're going to wash it out even farther.

25 Again, somebody please go back and talk

1 to the engineers and figure out a way to add
2 a little commonsense to it, because not
3 everything that's engineering is done right.
4 If I remember, quite a few years ago they
5 built a ship called the Titanic and it was
6 unsinkable, so the engineers said.

7 MR. HARRAH: Thank you. Anyone else,
8 questions?

9 MS. SIMON: Hi, my name is Suzanne Simon
10 from the University of North Florida. And
11 first I have a question and then I have an
12 observation.

13 First of all, I regularly teach a course
14 on environmental anthropology from the
15 University of North Florida. I'm not from
16 Jacksonville. Many of my students are from
17 Jacksonville, and many of them are
18 nontraditional age students. And they have
19 asked me about something called creasote.
20 And while I appreciate the concern for the
21 sea turtles and the dolphins and the sea
22 grasses, there is also concern for human
23 health effects. So could you please tell me
24 what the potential health effects of
25 creasote are and if they would be affected

1 by the blasting or the dredging. That's my
2 question.

3 And the second part is actually an
4 observation. I have been observing these
5 public comments, public participation
6 sessions since May of last year, and what I
7 have observed is actually a little bit
8 disturbing. And I think you have a public
9 participation mechanism that is a little bit
10 unproductive.

11 What I have observed is that they tend
12 to be technical, top-down affairs in which
13 the public is only involved at the last
14 minute as some of our commenters have
15 already observed. And if you will notice,
16 the questions that were asked at the end are
17 directly or indirectly related to what you
18 have presented, but these are the
19 substantive questions that the community
20 actually has.

21 I have a couple of very concrete
22 suggestions which I can offer for you for
23 how you can have public participation that's
24 more substantive and more ongoing dialogue,
25 and actually something that responds to

1 community needs. But up until now, I think
2 it's been a very dissatisfying process for
3 many community members.

4 MR. HARRAH: I guess we need to address
5 your question first.

6 MR. HOLLINGSWORTH: Hi, I'm Mike
7 Hollingsworth. And I'm with a biologist
8 group for this particular project and did
9 the hazardous waste assessment of this
10 particular project area.

11 With regard to the creasote question,
12 there was an issue in the Talleyrand area
13 with regards to creasote a number of years
14 ago, right next door to the -- where the JEA
15 Kennedy power plant was. There was a
16 creasote operation there where they actually
17 treated the wood there onsite since the
18 1920s on up through the 1960s. And from
19 that time period there still was creasote
20 located on the property and some of that
21 creasote was leaching down into the river at
22 that particular area.

23 In 2005 there was a remediation, acid
24 remediation project to remove that creasote
25 from the river channel, and which it was and

1 it was placed in another facility adjacent
2 to the JEA Kennedy.

3 Now, with the reduction of the project
4 from that segment two, from river mile 14
5 down to 20, that was eliminated, that
6 particular issue, from being in this
7 particular project. The Corps points and
8 temporal samplings that we had been doing
9 prior to this time, especially associated
10 with our EPA concurrences for placement of
11 material in the offshore exposed area have
12 shown that this particular area is pretty
13 much free of chemical contamination in the
14 channel itself where we'll actually be
15 dredging, and the risk is very, very low.
16 It's either rock or sand, a little bit of
17 silt located in these areas. And we have
18 not seen any issues with regards to creasote
19 contamination in the area that we're
20 actually going to be doing the dredging.

21 Now, if we were going to be going to
22 Talleyrand, we would have to take additional
23 precautions because of that site and some
24 other sites are located in that area. Since
25 we're not, that's eliminated that problem,

1 that issue.

2 MS. SIMON: Thank you. That was very
3 helpful.

4 MR. HARRAH: One of the -- I guess I've
5 heard a couple comments basically related to
6 media output and reaching the community with
7 status of the project. I'll take
8 responsibility for that one. I tried to
9 introduce a new topic to the navigation side
10 that we did in Everglades, which was to have
11 bimonthly public calls to give the public
12 the opportunity to call in. We've done that
13 consistently since -- it's been about a year
14 now. I've asked the public at the end of
15 every meeting to provide comments on what
16 you would like to hear or like to talk
17 about, and we will have another meeting in
18 June.

19 I want all my team members to raise your
20 hand, all right. How many people don't live
21 in Jacksonville, put your hand down. I
22 mean, everybody, this whole team is from
23 Jacksonville, too. This is our community.
24 Our kids, my kids play here, as well. We
25 want to do what's right for the community.

1 And I've heard the concerns on the rock,
2 and I will bring it back to my engineers and
3 we will look at it. I don't have to wait
4 until your public comment, I'll take it back
5 to the drawing board and we'll look at it.
6 I promise that.

7 For the media outreach, Amanda and I, we
8 need to do better and we will. We'll look
9 to see what we can do to get to the
10 community. If we have to have community
11 association meetings and get more one-on-one
12 with you folks, that's what we'll do. You
13 have our commitment, we'll do that.

14 MS. SIMON: May I make an additional
15 suggestion? Because I think the efforts
16 have been very genuine. One thing that
17 might help is on your website where you post
18 information from the different meetings, as
19 well as the minutes and so forth, it would
20 be helpful if you posted something like a
21 civil society comment box where people can
22 go at their own leisure and post comments
23 that they might have, and then based on
24 those questions and those comments, perhaps
25 design a meeting that begins with those

1 questions rather than having them come in at
2 the back end.

3 MR. HARRAH: That's a great idea.

4 Sounds great.

5 You had a question, ma'am?

6 MS. PELLEGRINI: My name is Brenda
7 Pellegrini. Having a meeting and expecting
8 the public to be able to participate at
9 10 o'clock on a Monday morning when most
10 people are at work is not something that
11 most people can do because they're expected
12 to work at work.

13 MR. HARRAH: I understand and that's --
14 I mean, that's the issue. We work the same
15 hours. That's something maybe we can look
16 at. Possibly I can do -- we need to look at
17 it. We'll do a media thing where maybe we
18 can try to, every bi-month I can personally,
19 as long as my wife will allow it, I'll check
20 with her, but I'll do like a 5:30 or
21 6 o'clock in the evening so I can sit and
22 listen to you all's concerns or we can meet
23 at the Port or wherever location is
24 convenient to you.

25 But I understand your concern. It's

1 just -- it was a new concept in navigation
2 as far as inviting the public. We're doing
3 Everglades and stuff all the time. I came
4 from the Everglades, so I said, well, why
5 not bring it -- we do get a lot of
6 participation and I understand your
7 concerns. There are a lot of folks that
8 probably do call in. But we'll look and see
9 if we can try and hold those in the evening
10 or something, as well.

11 MS. PELLEGRINI: I do have another
12 question. How close are the tugboats
13 allowed to come? They're blasting by the
14 shore and pushing off a surfable wave to
15 completely break bulkheads.

16 MR. HARRAH: That is out of my --

17 MS. PELLEGRINI: They are so close, it's
18 ridiculous.

19 MS. JORDAN-SELLERS: That's the Coast
20 Guard.

21 MR. HARRAH: Coast Guard, Mr. Butt. You
22 didn't think you'd have a speaking part. It
23 looks like you do, sir.

24 MR. BUTT: After the meeting you can
25 meet with me and talk about it.

1 (Inaudible crosstalk.)

2 MS. PELLEGRINI: They're so close.

3 MR. BUTT: Can you say your question one
4 more time?

5 MS. PELLEGRINI: The tugboats some close
6 to the shore. They're pulling that barge.
7 I just know they're going to run down the
8 docks, what docks are still there.

9 MR. HARRAH: So what's the question?
10 What can we do?

11 MS. PELLEGRINI: How close are they
12 allowed to get?

13 (Inaudible crosstalk.)

14 MR. BUTT: The tug operations throughout
15 the river, they are to operate within the
16 navigational beacons. I would be surprised
17 if they are pulling their tows outside the
18 navigational channels. As far as their
19 speed --

20 MS. PELLEGRINI: Is that 50 feet
21 offshore?

22 UNKNOWN MALE SPEAKER: More like 100.

23 MR. BUTT: Are they between the
24 navigational beacons?

25 UNKNOWN MALE SPEAKER: No.

1 MR. BUTT: No.

2 UNKNOWN MALE SPEAKER: Crowley Maritime
3 is the major --

4 UNKNOWN FEMALE SPEAKER: Jax, San Juan.

5 UNKNOWN MALE SPEAKER: Tugs generate the
6 most washout of anything on the river, and
7 if you're not out there doing your job to
8 stay in the lanes you're supposed to be in,
9 the impact is going to be more severe. So
10 that's what we're asking. What is the
11 limitation, stay within your limitation,
12 stay within your speed range. They put
13 another full tow, whether with or without
14 something, the waves are four foot hitting
15 the wall. If they're not pulling nothing,
16 they should be running at a very --

17 MR. BUTT: Sure. And the tug operators,
18 all the operators in the maritime community,
19 they are responsible for their wakes. In
20 other words, if someone has caused damage to
21 your dock, your work, your bulkhead, you
22 should reach out to them. We can certainly
23 help you facilitate that communication with
24 them. There's no problem there.

25 You know, the waterway is somewhat like

1 the highways that you drove on when you came
2 over here. There isn't a speed limit, but
3 there are banks that keep us within the
4 bumps along the highway, so they should be
5 operating within the navigational beacons.
6 The Corps of Engineers does a fantastic job,
7 regardless of what some of you may have as
8 an opinion, but they do keep the federal
9 channel clear. And then likewise, we come
10 in behind them and lay down the aids of
11 navigation to make sure there are beacons to
12 guide merchant marine operators through the
13 waterways.

14 So they are responsible for their wake.
15 They should be held accountable for wakes.
16 I have a good working relationship with all
17 the -- I can certainly voice your concern.
18 What I was suggesting, if you could tell me,
19 not here to take up this important time, but
20 all of you, I'd be happy to provide my
21 contact information. I'd like, if you have
22 something specific, I can go to the
23 operators and have them contacted.

24 MR. HARRAH: Let me ask you a quick
25 question. Is there something that, some

1 kind of media output to say, just a
2 reminder, you need to keep it -- how does
3 that communication, how could that occur as
4 far as letting people know, hey, we've been
5 getting some complaints. You need make sure
6 you stay in --

7 MR. BUTT: The Port Authority has what
8 we call the Jacksonville Marine
9 Transportation Exchange. It's a means for
10 all of us to communicate back and forth with
11 each other, and I can certainly push one out
12 tomorrow letting all the operators know, the
13 vessels, that there was some public comment
14 this evening regarding their
15 responsibilities to navigate safely and at a
16 speed that doesn't cause wake damage.
17 That's something I can work with with
18 Mr. Jim McLaughlin (ph) and Captain Mike
19 Etchel (ph) tomorrow to put something out.

20 MR. HARRAH: It essentially boils down
21 to kind of like the neighborhood watch
22 programs, the neighborhood river program.
23 If you see somebody committing a crime,
24 write the information down and get it to the
25 proper people.

1 MR. BUTT: There is a waterways,
2 American Waterways Watch Program out there.
3 I didn't bring any brochures along tonight,
4 didn't think it would be necessary, but we
5 do have a program like that. You can call
6 the Coast Guard, let us know what is
7 happening on the waterways and then we can,
8 you know, address your specific concerns.

9 But after the meeting, again, let me
10 know your concerns, who the operator was, so
11 we can get it out and I'll talk with Captain
12 Mike Etchel tomorrow and Jim McLaughlin and
13 put something out to the core community.

14 UNKNOWN FEMALE SPEAKER: I have plenty
15 of videos.

16 MR. HARRAH: Thank you, sir. Sorry
17 about that. You did a great job.

18 MR. BLANCHARD: Good evening. My name
19 is Don Blanchard. I'm also a member of the
20 Riverkeeper Board of Directors. Lisa
21 Rinaman, the Riverkeeper, couldn't be here
22 so she asked a couple of us to come and ask
23 a few questions.

24 Before I ask my question, though, I'd
25 remind the gentleman who was curious about

1 the draft environmental impact statement, it
2 will be ready next month. Is that according
3 to the timeline? April, I think.

4 MR. SUMMA: Yeah. It will be ready
5 then, but then we're going to do a quality
6 control test on it and then it will be out
7 for the public review on May 6th.

8 MR. BLANCHARD: And as of May 6th, will
9 there be copies here at the library?

10 MS. JORDAN-SELLERS: Yes. That is
11 required. There will be at least two
12 physical hard copies here at the
13 Jacksonville library.

14 MR. BLANCHARD: That's where you all
15 will see what you want to see in detail.

16 Also, if you could include the
17 Riverkeeper on the communication -- you
18 kindly mentioned it -- on the communication
19 and coordination team, you can just visit
20 our website or I'm sure Lisa Rinaman will be
21 in touch.

22 The two questions that I wanted to ask
23 were, one: What are the anticipated impacts
24 of the final dredging and project up river
25 on salinity? And then kind of a more money

1 question: What is the likely impact of the
2 sequester and the overall budget cuts? Is
3 that -- is this grandfathered or is this
4 still --

5 MR. HARRAH: I'll wait for Steve to come
6 up for the salinity question. For the
7 sequestration, my wife asks the same
8 question every night. We're still waiting
9 to see. We haven't received any official
10 notification of what's going to occur, but
11 in the event that it would occur and we have
12 to take days off and ultimately that
13 schedule could be impacted.

14 MR. BLANCHARD: Okay.

15 MR. BRATOS: I'm Steve Bratos. I
16 oversee a lot of the modeling from the
17 standpoint of salinity itself. There are
18 impacts that are changes to the salinity up
19 river to at least the Buckman Bridge. We
20 have put out -- we've released all of the
21 reports that document all of this change in
22 salinity. In terms of impact to actual
23 ecological indicators, I think that's still
24 under development. I think we're done with
25 that.

1 MR. SUMMA: I can address some of that.
2 We've had five ecological models and we've
3 taken the physical data that's detail plus
4 develop that basically documents the
5 existing salinity in the river and we
6 overlay in a very conservative fashion
7 different proposed depth scenarios; 44 feet,
8 46 feet and 50 feet. And we've done this
9 with the -- with drought conditions
10 involved.

11 In other words, in the period of record
12 that was available to us in our model, we've
13 taken three of the driest consecutive years
14 on record so that we can basically find any
15 discernible effect, any change in salinity
16 in any area of the project downstream as far
17 as it may show up.

18 And so that data is still being
19 collected. What it is showing is that there
20 are effects, changes in salinity in
21 different areas basically starting about the
22 Acosta Bridge and moving south towards the
23 Buckman and farther down from the Buckman, a
24 little bit past the Buckman.

25 We worked with the scientific community

1 and we've asked for their help in
2 identifying the ecological resources in the
3 area. We're focusing primarily on wetlands
4 and submerged aquatic vegetation. We know
5 how important the wetland community is to
6 the local area and also the importance of
7 the -- (inaudible). And we're trying to
8 understand the tolerances of those
9 particular species to salinity changes.
10 That's still under development, but by the
11 time the draft report comes out you're going
12 to have a real good idea, should be
13 well-represented as to exactly what the
14 effects will be on specific species that
15 we're looking at.

16 MR. BLANCHARD: Thank you.

17 MR. HARRAH: Any other questions?
18 Again, as I mentioned, all the Corps team,
19 Dr. Aconya, our blasting expert, will be in
20 the back of the room to answer technical
21 questions, as well.

22 MR. ANDERSON: Good afternoon. My name
23 is Jim Anderson. I've got three questions
24 for you. One is do you know the total
25 number of shots it's going to be to deepen

1 the river yet?

2 MR. HARRAH: No, sir. In the plans and
3 specs phase in October that she was asking
4 about, that's when we'll get in that level
5 of detail.

6 MR. ANDERSON: Second question: How
7 will this project affect the Intracoastal
8 St. Johns River project that's going to be
9 going on where they'll be moving the little
10 jetties and redoing that whole area there.

11 MS. JORDAN-SELLERS: That's mile point.

12 MR. ANDERSON: Where the Intracoastal
13 crosses over the St. Johns River, they've
14 always had a problem with boats, large
15 boats, going through there. And that's
16 going to be redone with another project.

17 MR. SUMMA: Yes, sir. That is a
18 separate project altogether. So that was a
19 navigational concern that the Port has had
20 for a long time with the navigation
21 community. That was a separate feasibility
22 study that we recently completed and
23 recently had approved, so that particular
24 component of the project is underway. We're
25 still looking at particular ways it can --

1 Congress hasn't appropriated
2 authorization --

3 MS. JORDAN-SELLERS: That's not
4 authorized yet.

5 MR. HARRAH: I thought he was asking
6 about the environmental. Did you have a
7 question on the environmental?

8 MR. ANDERSON: Well, are the two
9 projects are going to interfere with each
10 other? Are they going to be going on at the
11 same time?

12 (Inaudible crosstalk.)

13 MR. ANDERSON: Good question. If the
14 river is deepened, with all the problems in
15 Congress going on, is that going to affect
16 the rate of the water flow at Mayport with
17 that extra five to ten feet of water?
18 Anyone know that?

19 /PWA0*EUZ: By deepening, we will change
20 the tidal flow, what happens in this river
21 park we're looking at, so we will, in
22 different parts of the river, affect the
23 currents, water levels. Some of our effects
24 for modeling indicate we might change the
25 tidal range by a few tenths of a foot, for

1 example. Currents, we can see something on
2 the order of two- to four-tenths of a knot
3 change in a peak maximum flood or epic flow.
4 That just depends on which part of the river
5 you're talking about how that changes.
6 There will be some effects, but as far as we
7 can tell right now, it's a fairly minimal
8 effect.

9 MR. ANDERSON: It's going to be
10 interesting --

11 /PWAO*EUZ: Well, it depends where in
12 the river and which -- the type of current,
13 Mayport itself or --

14 MR. ANDERSON: Like the boat ramp at
15 Mayport.

16 MR. SPINNING: At Mayport the flow
17 current will increase and the ebb current
18 will decrease.

19 MR. ANDERSON: Thank you.

20 MR. SPINNING: Just real quick, to
21 answer your one question, this deepening
22 project actually takes the Mile Point
23 Project completed as a baseline condition to
24 study this. So Mile Point was considered
25 complete when we went into this because it

1 is ahead of this as far as schedule and
2 everything else.

3 (Inaudible.)

4 MR. SPINNING: Mayport and Mile Point,
5 yes.

6 MR. HARRAH: Any other questions before
7 we bring it to the back of the room and you
8 can go back there? Anything else?

9 Yes, ma'am.

10 MS. THOMAS: Janie Thomas, T-h-o-m-a-s.
11 I'm the executive director for the Shrimp
12 Producers Association. I'm here to go on
13 the record. My first question is on the
14 segment two for mile 13 and mile 20, when is
15 that proposed?

16 MR. HARRAH: At the request of
17 Jacksonville Port Authority, that was, you
18 know, excluded from our study. The Port
19 would have to come to us with an official
20 request to study that additional length.

21 Roy, any interest in the future? You
22 want to address that?

23 MR. SCHLEICHER: The Port has no
24 intention of dredging out by the Talleyrand
25 terminal.

1 MR. HARRAH: Okay. So as you heard,
2 this will remain in its current depth of 40
3 feet.

4 MS. THOMAS: Where, though? I just
5 understood about the salinity change, and
6 we're very concerned with that. It's about
7 40 boats out of the 600 in 1976 that still
8 have a license to trawl in the river. We're
9 highly, highly regulated and highly
10 restricted. We have to stay 100 yards from
11 the shoreline, so you're going to knock us
12 out now from -- all the way from Blount
13 Island to the MOL. We're going to lose that
14 unless you'll help us and go to the
15 legislature and let us get closer to the
16 100-yard shoreline. And then we're going to
17 have to keep the salinity change and the
18 habitat of our shrimp, because you know a
19 shrimp knows no boundaries. It's only water
20 temperature and salinity.

21 And you may have to go with us to
22 Tallahassee to the Fish Commission and get
23 our boundaries extended south, because we
24 feel like that the shrimp will be in Palatka
25 and live and stay there. We don't know that

1 they're even going to have a reason to go
2 back to the ocean as the natural habitat is.

3 But we're giving and we're taking and
4 we're -- we always do. We always work with
5 the government for anything that they have
6 to do, and I just merely wanted to be here
7 tonight to go on record and let you know
8 where we stand on behalf of our industry.

9 I think you've done a very good
10 presentation. I used to live right there in
11 front of buoy 48 before I moved to the
12 fabulous Nassau County. Thank you.

13 MR. SUMMA: Thank you, ma'am.

14 MR. HARRAH: Any other questions or
15 comments?

16 That concludes our presentation. As I
17 mentioned, the guys will be in the back of
18 the room to answer any additional questions
19 you have. Fill out the comment cards.
20 We'll have another public meeting when the
21 report comes out in June of 2013.

22 (Whereupon, the meeting was
23 concluded at 8:17 p.m.)

24
25

C E R T I F I C A T E1
2 STATE OF FLORIDA)

3 COUNTY OF DUVAL)

4 I, Amanda E. Robinson, Court Reporter and
5 Notary Public, duly qualified in and for the
6 state of Florida, do hereby certify that I was
7 authorized to and did stenographically report the
8 foregoing proceedings; and that the transcript is
9 a true record.10 I further certify that I am not a relative,
11 employee, attorney or counsel of any of the
12 parties, nor am I a relative or employee of any
13 of the parties' attorney or counsel connected
14 with the action, nor am I financially interested
15 in the action.16 Dated this 8th day of April, 2012.
17
1819 _____
20 Amanda E. Robinson, RPR
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