

## NEPA Public Scoping Meeting

Please note this document is a compilation of two transcripts, the afternoon session followed by the evening session of the NEPA Public Scoping meeting. Please use the Acrobat "Find" tool to perform key word searches within this document.

NEPA SCOPING PUBLIC MEETING

-----:

In Re: :

:

Great Lakes and Mississippi :

River Interbasin Study :

-----:

Ypsilanti, Michigan

Tuesday, March 8, 2011

Proceedings had in the above-entitled  
matter before U.S. Army Corps of Engineers Panel  
Members, at the Ann Arbor Marriott Ypsilanti at Eagle  
Crest, 1275 South Huron Street, Ypsilanti, Michigan,  
at 2:00 p.m.

1 A P P E A R A N C E S

2 PANEL MEMBERS:

3

4 John Goss - Asian Carp Director, White House

5 Council on Environmental Quality

6

7 Major General John Peabody - Commander Great Lakes

8 and Ohio River Division, U.S. Army

9 Corps of Engineers

10

11 Dave Wethington - CAWS Project Manager

12

13 Michael Saffran - Other Pathways Project Manager

14

15 Kevin Bluhm - Moderator

16

17

18

19

20

21

22

23

24

25

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011

3

|    |                    |      |
|----|--------------------|------|
| 1  | C O N T E N T S    |      |
| 2  | SPEAKERS:          | PAGE |
| 3  |                    |      |
| 4  | Connie VandePolder | 52   |
| 5  | Michael Bodary     | 54   |
| 6  | Barbara McCallahan | 63   |
| 7  | Thomas Ridge       | 65   |
| 8  | Andy Buchsbaum     | 66   |
| 9  | Kyle Cragg         | 79   |
| 10 | Melissa Damaschke  | 81   |
| 11 | James McIntosh     | 84   |
| 12 | Matt Doss          | 93   |
| 13 | ██████████         | 99   |
| 14 | Trilby Becker      | 102  |
| 15 | Gillian Woodrooffe | 108  |
| 16 | Richard Reynolds   | 111  |
| 17 | Gale Govaere       | 117  |
| 18 | Alex Yerkey        | 119  |
| 19 | Laura Rubin        | 123  |
| 20 | Chuck Denton       | 126  |
| 21 | Marc Smith         | 130  |
| 22 |                    |      |
| 23 |                    |      |
| 24 |                    |      |
| 25 |                    |      |

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

2 MR. BLUHM: Good afternoon, folks. My name  
3 is Kevin Bluhm. I'm the moderator for today's meeting.  
4 I come from the St. Paul district Corps of Engineers'  
5 office. And I'm very glad that you all made it with us  
6 today.

7 As you all know, this is a reschedule from a  
8 little while ago when we had a much, much snowier  
9 forecast, and today's weather is definitely much  
10 better. So appreciate you bearing with us for the  
11 reschedule and working with us so that we could fit it  
12 back into our timeline.

13 This now is our last meeting for the scoping  
14 series. This will be the last meeting for the Great  
15 Lakes and Upper Mississippi Interbasin Study, GLMRIS,  
16 NEPA Public Scoping meeting.

17 And before we begin, I just want to let you  
18 know if you're not familiar with the facilities here,  
19 just down the hallway basically to the very end are the  
20 restrooms. If you need to take a call or use the  
21 restrooms during our meeting, feel free to excuse  
22 yourself at any time.

23 Also, in the lobby here, we have registration  
24 tables. If you haven't had a chance to register yet, I  
25 would ask that you do that as it will give you a nice

1 packet of material that we'll be referencing during the  
2 meeting, and then also give you some materials you can  
3 take with you. If you don't have the packet on you  
4 right now but would like to get one, if you just want  
5 to raise your hand, we'll make sure that one of our  
6 staff grabs a packet and brings it in. So if you don't  
7 have one, just raise your hand, and we can make sure  
8 you get one.

9           Okay. I'll go through the packet now. In  
10 that packet, we've got a green half-sheet paper here.  
11 This shows the actual agenda for the meeting today and  
12 this evening. And this will help you go through and  
13 keep on track with what we're going to be talking  
14 about.

15           The quarter-size sheet and then the little  
16 blue booklet in here are overview materials. They'll  
17 tell you a little bit about the background for the  
18 actual GLMRIS work.

19           The white half sheet of paper, this is the  
20 one that's the most important for our scoping process.  
21 This piece here is designed to give you a chance to  
22 make any comments on the inside or on the back side of  
23 it for us as we enter into the comment period. Keeping  
24 in mind that any comments that you have for us you can  
25 drop with us today or make sure that we get them by

1 March 31st, as that is the closing for the NEPA public  
2 scoping.

3           Also, the lavender or purple sheet is an FAQ,  
4 frequently asked question, sheet. This will help give  
5 some baseline information for things that we hear most  
6 often.

7           The salmon-colored sheet here talks about the  
8 other efforts that are going on. And you'll hear more  
9 about that in the presentation.

10           The yellow sheet here is a form that we ask  
11 that you fill out if you're going to make any  
12 statements to the panel during the open question-and-  
13 answer session. If you haven't filled this out and  
14 would like to make a statement, I would ask that you  
15 fill out the yellow sheet, and then take that to the  
16 table outside.

17           The blue sheet is designed to help us if you  
18 have any pieces of information you would like to turn  
19 into us as part of our record. This will help make  
20 sure that we have properly identified any of the  
21 materials that you would turn in for us.

22           And then, lastly, the booklet that shows all  
23 our slides this set will be the slides that the Corps  
24 of Engineers team will be using to talk about the  
25 GLMRIS efforts and is yours to keep.

1           If you need any more copies of these, we have  
2 more copies available. And if you are done at the end  
3 of the meeting, you can recycle them with us. That  
4 would be very much appreciated.

5           Okay. Also, if you registered to speak  
6 online on our project Website and have not checked in,  
7 there's a table just outside the door here that has a  
8 label on it that says, "Register to Speak." Make sure  
9 that you have checked in. That will help us get you in  
10 the queue for when we start doing the actual comments  
11 and so that we don't miss you.

12           All right. Our GLMRIS team has organized  
13 this public meeting to accomplish two goals. Our first  
14 is to present to you information about the study  
15 itself. And then the second is to solicit your comments  
16 on significant issues that should be included in the  
17 GLMRIS efforts and any insignificant issues that can be  
18 eliminated from further study.

19           The Corps is hosting, too, all public  
20 meetings throughout the study area in an effort to  
21 provide opportunities for those interested in the study  
22 to learn more about the study and then, also, the most  
23 important part, to provide your oral comments to us.

24           Please note, again, the NEPA scoping public  
25 period does close on March the 31st. So at the end of



1 the month, that will be closing.

2 As indicated on the agenda, this public  
3 meeting is organized in two sessions. An identical  
4 presentation will be given at the beginning of each  
5 session followed by the oral comment period. The first  
6 public comment period will end at approximately 5 p.m.,  
7 and then the second session will begin at 5:30 sharp.

8 There will be a 30-minute presen -- or 30-  
9 minute break between the two sessions. Our staff will  
10 be available during that break if you have any  
11 questions that you would like to talk. And the second  
12 comment period will end approximately around 7 p.m.

13 If you do have any questions or concerns  
14 during that break time, the staff will be either in the  
15 front of the room here or out in the lobby. Just  
16 please note that you are welcome to talk to any of the  
17 panelists or staff members once the meeting has  
18 adjourned, but any comments that are not presented  
19 during the official oral comment period or submitted as  
20 a written comment will not be part of our NEPA  
21 documentation. So if what you have to say is important  
22 and you want to make sure that that's part of our  
23 documentation, I would encourage you to either use the  
24 white form or make sure that you talk to the assembly  
25 as a whole rather than just offline.

1           Okay. With that now I'm going to introduce  
2 the panel members that you have up in front here. Right  
3 adjacent to me Mr. John Goss. He is the Asian Carp  
4 Director, White House Council on Environmental Quality.

5           Seated next to him Major General John  
6 Peabody, Commander for the Great Lakes and Ohio River  
7 Division, U.S. Army Corps of Engineers.

8           Third on the table here, Mr. Dave Wethington.  
9 He is the Corps of Engineers GLMRIS Project Manager.  
10 And you'll hear from all these folks in just a little  
11 bit.

12           And on the farther side of the table, Mr.  
13 Mike Saffran. And he's the Other Pathways Project  
14 Manager.

15           And then, also, I just want to let everybody  
16 know that we are sitting in the midst of the Detroit  
17 District, and folks like myself and others from the  
18 table here are from other district areas. So I want to  
19 mention that we've got District Commander here Mr. Mike  
20 -- where is he? There he is. I see him right there --  
21 Derosier. And he's the Commander from the Detroit  
22 District area. So thank you for allowing us to use  
23 this facility. It's a very nice day for us and much  
24 better than the first time. Thank you.

25           MR. DEROSIER: Thanks. Thanks a lot. It's

1 great to host everybody today. Appreciate you being  
2 here.

3 MR. BLUHM: Okay. Very good. Thank you.

4 Okay. And with that, I'm going to keep  
5 things moving along. And we'll turn the meeting over  
6 to Mr. Goss to begin the presentation on Asian carp.  
7 Thank you.

8 MR. GOSS: Thanks a lot. Welcome everyone.  
9 Thank you for taking the time to learn a little bit  
10 more about the whole picture of what we're dealing with  
11 with the Asian carp challenge and helping get this  
12 discussion launched on a process. This is going to  
13 take some time. And we'll talk about that. It's going  
14 to take some time to develop all the options and all  
15 the information.

16 What I would like to do just for a few  
17 minutes is update you on where we are with Asian carp  
18 control, and hopefully this will make you feel a little  
19 better about where things are today.

20 The first thing that I want to say is the  
21 Obama administration does have a strong commitment to  
22 protect the Great Lakes. And a very comprehensive and  
23 proactive strategy has been developed to stop Asian  
24 carp from getting into the Great Lakes. We have strong  
25 carp barriers that are up and running. We are

1 proactively addressing all the possible identified  
2 pathways that are at risk for the advancement of Asian  
3 carp. And we're working together. The federal  
4 agencies and the states are working together to develop  
5 a strong strategy that will protect the ecosystem of  
6 the Great Lakes in the future.

7 Asian carp really are just the latest. We  
8 know that we've dealt with significant other  
9 challenges, but this is unique in that we are ahead of  
10 the establishment of the species. We have an  
11 opportunity to stop them, and we are very determined to  
12 accomplish that in the near term.

13 The next thing that I want to give you is  
14 just a little background. The most significant area of  
15 focus for stopping Asian carp is in the south side  
16 Chicago. And the map on the left -- I hope you can see  
17 it from your distance -- shows how the water originally  
18 flowed. And that the Chicago River that comes out  
19 there in the middle at Navy Pier was a much shorter  
20 stream. And the Calumet Rivers that come from the  
21 Indiana side and go out on the south side of Chicago  
22 were flowing into Lake Michigan.

23 About a hundred years ago problems developed  
24 in Chicago with their water supply. They were pulling  
25 their water out of the lake. They were putting all of

1 their waste in the lake. And they had a serious  
2 disease problem. So to fix that the Corps of Engineers  
3 did a fairly miraculous replumbing of Chicago and  
4 developed the Chicago Ship Canal and the connections  
5 over to the Calumet areas. So those now converge. And  
6 they all drain to the Mississippi down the -- into the  
7 Illinois River and into the Mississippi Drainage Basin.  
8 I just wanted to make sure you understood that that was  
9 a created body of water. It's not a natural stream.

10 Just a few more orientation things. Over on  
11 the right is Lake Michigan. And those points where  
12 each of the connecting tributaries connect to the lake  
13 are significant areas that we're watching to make sure  
14 that no carp are moving out into Lake Michigan.

15 The electric barriers, the star in the middle  
16 of the map, that is an area where we have some good  
17 news. The third electric barrier is fully operational.  
18 The Corps has gotten it completed, safety tested. It's  
19 going to be fully functioning just in a couple of  
20 weeks. And so we now have three fields of electricity  
21 that are stopping all fish from moving through that  
22 area.

23 Also, I want to point out that flooding is  
24 something that is a big concern. And up in the Chicago  
25 Lock, which is in the center of the map, that lock has

1 had to be opened recently for floodwater in downtown  
2 Chicago to get out into Lake Michigan. So it's a  
3 continuing challenge to deal with the stormwater, the  
4 floodwater in this area.

5           And I'm from Indiana. I know that the Little  
6 Calumet has recently overflowed a number of times, and  
7 we have several hundred million dollars of Corps of  
8 Engineers projects involved in trying to reduce the  
9 flooding problems on the Indiana side in the last 10  
10 years.

11           What are we doing about this? We have a  
12 strategy. It was put together about a year ago with  
13 the federal agencies coming together and pulling their  
14 resources. And since then, we've added a number of  
15 projects. There's a Coordinating Committee. At the  
16 top there lists agency people that are the primary  
17 people who are directly in charge, and then each of the  
18 agencies and the state Departments of Natural Resources  
19 that we've invited to join in the Regional Coordinating  
20 Committee to work on the policy for the future on each  
21 of these projects.

22           The other thing that I want to mention that  
23 is a recent success -- and Mike Saffran will talk in  
24 more detail, but I just want to point it out quickly.  
25 In Indiana last summer found a connection between the

1 waters of the Wabash River and the waters of the Maumee  
2 that could be a pathway for carp to get to Lake Erie  
3 from the Wabash River. We have a lot of carp in  
4 northern Indiana established and breeding close to Fort  
5 Wayne, Indiana already. So Mike will talk about the  
6 details, but I just wanted you to have that in mind as  
7 a key accomplishment this fall.

8

9

10

11 And on top of that on the Des Plaines River  
12 back on the previous map which runs parallel to the  
13 ship canal, there's a fish barrier fence that's 13  
14 miles long to stop the same problem. And flood waters  
15 in the Des Plaines we were concerned that some carp  
16 might get around the barrier and get out to Lake  
17 Michigan. That fence was completed, again, under  
18 budget and ahead of schedule by the Corps of Engineers.  
19 And sometimes everybody thinks they move slowly, but  
20 I'm telling you they can move fast when they need to.  
21 Those are two great accomplishments.

22 Coming up for this next year we have outlined  
23 a plan to continue to monitor the area between the  
24 electric barrier and Lake Michigan very extensively.  
25 That will include continuing electro-fishing and

1 netting. This past year over 40,000 fish were netted  
2 and identified by very qualified biologists working in  
3 that area from all the agencies involved. And we found  
4 one live Asian carp.

5           So we do not have an established population  
6 there in the area that we're concerned with. We are  
7 continuing to get some eDNA traces, and out of 1200  
8 water samples taken in October through December there  
9 were 12 positives, but they were not concentrated in  
10 any one area. There was one here, one there, and one  
11 somewhere else. And when we went back to that area  
12 immediately with electro-fishing and netting, could not  
13 locate any population of carp. And did another eDNA  
14 test in that area the following week or two, did not  
15 find eDNA repeated in those areas.

16           So it is the technique that we have to work  
17 with at this point. EDNA is good for early detection,  
18 but it doesn't really tell us a whole lot about how  
19 many fish it really is. We need a lot more research on  
20 that to continue to figure out how else we can use it.

21           I want to talk a little bit about the  
22 research projects that are funded for the most part in  
23 the strategy. Some of these are on hold until we get a  
24 continuing resolution adopted -- or excuse me. Until we  
25 get a budget adopted, because new projects couldn't be



1 started in the first six months of this federal year  
2 with the budget situation.

3 But just a few highlights. Looking at toxins  
4 hopefully something specific to Asian carp that we can  
5 use to go after the population in the rivers that are  
6 certainly a huge problem down state for many of our  
7 states. Also looking at seismic technologies that  
8 might disrupt spawning areas, might be used to herd  
9 fish or actually eradicate Asian carp. Looking at risk  
10 assessments on habitat and food sources, trying to  
11 determine if they move to other areas what are the  
12 areas where they're likely to go, and can we be ready  
13 to identify them if they should move. And also  
14 pheromones attractants that might draw them into an  
15 area where they could be trapped, netted and removed.

16 And hopefully something that's a little  
17 quicker. The eDNA test takes a couple of weeks to run  
18 through the lab and get the results, and by then --  
19 Asian carp are pretty fast swimmers. And they're  
20 usually in some other area by the time you've had a  
21 check on one. So looking at something that's a quicker  
22 turnaround.

23 The last thing I would like to leave with you  
24 is that we do recognize the potential threat of Asian  
25 carp as one of the biggest challenges to the Great

1 Lakes ever. The Obama administration does have a  
2 continuing strong commitment financially and talent  
3 wise with some of the best people in the federal  
4 agencies to work on this problem.

5           The barriers are running effectively, and we  
6 are monitoring very vigilantly that area between the  
7 electric barriers in Lake Michigan. And we're going to  
8 continue to work on the strategy for all the options  
9 for long-term control of carp.

10           So I just wanted to give you the background  
11 that there are lots of things going on besides just a  
12 study of the Chicago Area Waterway and the other  
13 pathways. This was just a little more background.  
14 Hopefully that's been helpful.

15           And we look forward to your questions and  
16 comments later today. I'll be here all day and look  
17 forward to talking to you. So thanks a lot.

18           Why don't you introduce yourself.

19           GENERAL PEABODY: Okay. Thanks, John.

20           Well, good afternoon, everybody. And we  
21 really appreciate you coming here. And, again,  
22 apologize that we had to postpone our last scheduled  
23 event. But contrary to what some people might say, the  
24 Corps of Engineers cannot control the weather. And we  
25 are subject to that as we are the many other natural

1 laws that are outside of our control.

2 I would like to just, if I could, John,  
3 correct one point. And that is the Chicago Area  
4 Waterway System was developed by what's today the  
5 Metropolitan Water Reclamation District. I would like  
6 to take credit for that great engineering feat as a  
7 great engineering feat, although obviously the  
8 consequences of it are being borne out today, and those  
9 are not all positive consequences, but we didn't  
10 actually have an involvement in building it to my  
11 knowledge. We did have an involvement with the locks  
12 and dams that are existing there today.

13 I do want to make one other point before I  
14 get into -- emphasize a point that Mr. Goss made and  
15 that is really important to understand before we get  
16 into the discussion of the GLMRIS study, the Great  
17 Lakes and Mississippi River Interbasin Study. And that  
18 point is that all of the efforts that we are taking  
19 collectively together we have very high confidence in  
20 that they are being effective in containing the Asian  
21 carp below the fish barrier.

22 That is a fundamental point that seems not to  
23 be either understood or if it is understood, perhaps  
24 not accepted. We'll be happy to take questions in that  
25 regard and talk to you about the specific evidence of

1 why that is so. Much of it is publicly available on  
2 our Websites. And, in fact, we will publish a report  
3 this month that details all of the laboratory research  
4 that we've done associated with the operating  
5 parameters of the barrier and why we believe the  
6 operating parameters that we're currently executing are  
7 optimal.

8 We are open to changing those operating  
9 parameters as scientific evidence indicates that we  
10 should do so, but right now that evidence indicates  
11 that the operating parameters are, as Mr. Goss said,  
12 effective.

13 Okay. So we're here today to talk about the  
14 Great Lakes and Mississippi River Interbasin Study.  
15 I'll make a few comments, go through a few slides, and  
16 then we'll turn it over to two of our study experts,  
17 Mr. Dave Wethington and Mr. Mike Saffran.

18 I would also like to highlight Mr. Gary  
19 O'Keefe in the back of the room. Gary, if you could  
20 raise your hand. Mr. O'Keefe is currently the Deputy  
21 Program Manager for the Detroit District, but has  
22 recently accepted a position as the Program Manager for  
23 this study.

24 Now, Mr. Wethington -- this will allow Dave  
25 to do what he does best, and that is manage the Chicago

1 Area Waterway System focus. That remains the primary  
2 focus of this study, because it is the only  
3 continuously open aquatic pathway between the Great  
4 Lakes and the Mississippi River watershed. And then  
5 Mike will talk about the other pathways.

6 Gary will be less involved in directing the  
7 details, although he will be involved in some of that  
8 than he will be in outreach and in coordinating efforts  
9 by other agencies. And this will allow, again, our  
10 study team that is currently composed to focus on the  
11 actual study process. And we hope this will help  
12 improve our ability to get to solutions at the best  
13 possible pace.

14 Go ahead and go to the next slide, please. Or  
15 do I have that? Great.

16 This has nothing to do with the study, but I  
17 want to put it up here because I'm in this uniform for  
18 a reason and it's symbolic. The reason is because  
19 whether we agree with it or not the nation is at war in  
20 far reaches of the world today. And the world is  
21 changing around us as we've seen from all the recent  
22 upheavals in Africa. The nation has our sons and our  
23 daughters, our brothers, our sisters, our aunts and  
24 uncles, our mothers and our fathers deployed primarily  
25 in Afghanistan and Iraq, but in dozens of other

1 countries around the world going in harms way trying to  
2 defend our freedom. And we in the Corps of Engineers  
3 support them.

4 We in this division that I have  
5 responsibility for have about 90 folks who are deployed  
6 in primarily Afghanistan and Iraq today to support our  
7 service members both in building infrastructure that  
8 supports their ability to do their jobs, as well as  
9 working with the local communities, the countries to  
10 help build and help build their capacity in building  
11 the engineered structures that allow a country to  
12 operate as a country.

13 We believe in the Corps that it is the  
14 construction of these efforts and the building in that  
15 capacity that in the long run will really help achieve  
16 the policy objectives that our nation has set forth in  
17 both Iraq and Afghanistan.

18 Next slide, please. I love giving myself  
19 orders.

20 Okay. This slide indicates to you what we  
21 are told to do by act of Congress, all right? Now, we  
22 have lots of -- there's two things the Corps has to  
23 have before it can do anything. The first thing is an  
24 authority. We have to be told either by the  
25 administration as modified and executed by act of

1 Congress and signed by the president an authority that  
2 says go do something.

3 Now, just having the authority is a necessary  
4 but insufficient condition. The second thing we have  
5 to have is an appropriation. We have to have money. We  
6 have lots of authorities that we're unable to act on  
7 because they are -- or unable to act on to our full  
8 capacity because they're not fully efficiently funded  
9 or in some cases not funded at all.

10 I hope it will make you feel good that this  
11 particular study is fully funded in the FY12  
12 president's budget and in combination with GLRI funding  
13 is close to fully funded in our FY11 work plan  
14 depending upon how that evolves with the continuing  
15 resolution in Congress.

16 Now, a couple of other things I want to  
17 highlight. In this language -- and we'll talk more  
18 about them later. But if you read the language, it  
19 tells us that we have to look at a range of options and  
20 technologies that are available. So we're not told to  
21 go invent new technologies, although we will look at  
22 what might be reasonably available in the near future  
23 as part of the study. But that's what we're told to  
24 do.

25 The purpose of it is to prevent the spread of

1 aquatic nuisance species between the Great Lakes Basin  
2 and the Mississippi River Basin. So this is not just  
3 about Asian carp, although obviously Asian carp is the  
4 species that is of primary concern to all of us here  
5 today.

6 The other thing we're going to do is look at  
7 the entire basin. And we'll talk about the details of  
8 that later.

9 Now, one of the challenges that we have is  
10 we're told to prevent. And if you look it up in the  
11 dictionary, that meaning has a -- or that word has a  
12 range of meanings from 100 percent perfection to risk  
13 reduction. And we know from our experience in a whole  
14 host of engineered activities that we've executed  
15 throughout the world and in this nation that a hundred  
16 percent surety is rarely, if ever, achievable in the  
17 real world.

18 So one of things we will look at and we will  
19 evaluate is the degree of risk reduction that the  
20 variety of options and technologies, the range of  
21 options and technologies, may allow us to get to, and  
22 our confidence that certain alternatives will allow us  
23 to approach the ideal end state of prevention.

24 I want to be clear, though, that our goal is  
25 prevention. Our goal is prevention. Knowing whether



1 we can get to a hundred percent prevention is another  
2 matter that the study is designed to uncover.

3           Okay. So I said this is a big area. And if  
4 you look at this map, the brown land area is the Great  
5 Lakes watershed on the U.S. side itself. And it's just  
6 the U.S. side we're looking at.

7           The dark green area is the upper Mississippi  
8 and Ohio River watershed of the Mississippi watershed.  
9 And that's the primary area that we're going to look  
10 at.

11           But it also includes the gray area that  
12 encompasses the Missouri, the red, the Arkansas to the  
13 west of the Mississippi River Basin. So this is truly  
14 an enormous, enormous area that we're studying.

15           But if you look at the line, the dashed line,  
16 that goes from Minnesota all the way through all the  
17 Great Lakes states and ends up in New York, that's the  
18 Basin Divide that we're going to primarily focus our  
19 attention on. And it's the species that are relatively  
20 close to that Basin Divide, the aquatic nuisance  
21 species on both sides, that we're going to look at.

22           One of the characteristics of this basin in  
23 general is it's fairly flat. Most of you are from  
24 here, you live here, you know that. The problem with  
25 flat terrain from a hydrologic perspective is that

1 makes it very complex. It makes it complex because  
2 small nuances in the typography can make a big  
3 difference in terms of how water flows, and that can  
4 make a big difference in terms of how various species  
5 may migrate between the two basins.

6           Okay. So now let's talk about what this  
7 means in practical terms. And I'm not going to cover  
8 all the details here, but you can see on the left side  
9 that's what's in the study. On the right side of this  
10 slide that's what's outside of the study. So let me  
11 just highlight a few points.

12           We're going to talk about aquatic  
13 connections; in other words, water and where water  
14 flows. There's only one connection that's permanent.  
15 That's the Chicago Area Waterway System, as Mr. Goss  
16 talked about. However, there are 36 others that so far  
17 we have identified that could become connections  
18 depending upon certain weather events, basically lots  
19 of rain. And there are 18 of those, which we'll talk  
20 about, which could have a -- are a significant concern  
21 that we intend to study on a more accelerated basis and  
22 focus on initially.

23           Because what we don't want to have happen is  
24 while we're focused on the main avenue of enemy attack,  
25 which is Chicago Area Waterway System, that we get

1 outflanked by the enemy at some other location, to use  
2 military jargon, if I could.

3           We're going to look at basically anything  
4 that moves in an aquatic pathway as listed there,  
5 swimmers, floaters, hitchhikers, not just fish. We've  
6 got a photograph or a series of photographs that will  
7 highlight that.

8           And we're going to look at the U.S. side of  
9 the border, okay? So we're not really going to look at  
10 Canada. Now, Canada obviously is very interested in  
11 this. They've already talked to us and told us that  
12 they intend to do some study work and help inform our  
13 efforts. And we appreciate that. But looking at  
14 Canada and the Canadian side of the border is not  
15 within our authority.

16           And then you can see the elements that are  
17 listed there. Again, I'm only going to highlight  
18 really the bottom one, because I've talked about much  
19 of the other ones already, and that's the Environmental  
20 Impact Statement. That is only one of the NEPA -- the  
21 National Environmental Policy Act is only one of a  
22 whole host of laws and related policies that we have to  
23 comply with as part of our study process. And we do  
24 intend to execute an Environmental Impact Statement as  
25 part of this because of its complexity.

1           So how are we going to get after that? Well,  
2 first, we're going to focus on two areas. And I've  
3 already alluded to this. The primary one is, again,  
4 Dave Wethington, the Chicago Area Waterway System.  
5 That's the primary focus. That's the continuously open  
6 pathway.

7           The second focus area really is a series of  
8 areas. It's all those other pathways that we're going  
9 to look at.

10          The only thing I'm going to mention when I  
11 talk about organizing for success, because I'm sure our  
12 organization chart is not all that interesting to you  
13 and I won't bore you with it, but it is important to  
14 know that the federal team is, in fact, again, as Mr.  
15 Goss talked about, working collaboratively as a team.  
16 Not just on the Asian carp, but we'll do so going  
17 forward. And I think we have so far Fish & Wildlife  
18 and EPA have agreed to be cooperating agencies.

19          Is that right, Ernie?

20          Thanks.

21          We've sent invitations to other federal  
22 agencies to be cooperating agencies as part of the  
23 study. And even if they don't formally agree to it, I  
24 know that informally we'll work with them.

25          An example of that is U.S. Geological Survey

1 has agreed to look at the potential impacts of Asian  
2 carp on Lake Michigan if, in fact, they were able to  
3 get into Lake Michigan and establish a population. So,  
4 in other words, what would occur.

5           Then we will take that information and we  
6 will use that as part of the other studies we're doing  
7 on the impacts of closing down or shutting down the  
8 waterways, and then coming to an understanding of how  
9 we balance those impacts and what those impacts would  
10 mean, because that is a requirement under the law for  
11 us to make those -- to do that research and make those  
12 assessments.

13           Where you can help is this third sub-bullet  
14 under that, and that's stakeholders. And this is  
15 really important. There is no way the Army Corps of  
16 Engineers can do this without your help and the help of  
17 other agencies that have a whole host of capabilities  
18 and expertise.

19           We're really -- we like to think of ourselves  
20 as really good and really smart, but this is bigger  
21 than all of us. And if you have knowledge, if you have  
22 -- especially about a specific potential pathway we're  
23 looking at, if you have knowledge about a study that's  
24 underway that maybe we haven't identified, if you have  
25 scientists or academics that you know of who you think

1 could look at what we're doing and make recommendations  
2 or if you have specific data that's data that we need  
3 to gather, that will help us tremendously to develop  
4 the quality data that we need that is necessary to  
5 develop before we can actually do the analytics of the  
6 study itself.

7               Now, we're not going to wait for a perfect  
8 study before we come up with reports on it. So I can  
9 guarantee one thing. The data reports will be  
10 published as the data matures, okay? And we'll  
11 probably have potentially scoping meetings to discuss  
12 those depending upon how that data develops. And I  
13 would foresee that maybe in, what, a year or two is  
14 probably the timeline for that.

15              The other thing we're going to do is as the  
16 data develops and as we understand what some of the  
17 alternatives and the technologies are that can get  
18 after this issue, if some of those technologies or  
19 alternatives appear to be exceptionally promising and  
20 it looks like we could get if not a final but maybe an  
21 incremental measure that can improve the situation and  
22 reduce the risk of aquatic nuisance species moving back  
23 and forth, then we will intend to cycle out reports  
24 that make recommendations or make assessments,  
25 judgments and then recommendations exact like that. We

1 have already done that with the efficacy study  
2 associated with the fish barrier, and we're committed  
3 to taking that approach here.

4           What I can't do is predetermine whether or  
5 not we will do that, because we don't know yet what  
6 those alternatives and technologies are. We don't know  
7 yet how promising they may be.

8           Okay. So I told you I was going to show you  
9 some photographs with some weird stuff, and this is it.  
10 So we've got obviously on the left-hand side there the  
11 famous silver carp jumping in the air that we all fear  
12 so much. But it's not just about fish. There's all  
13 kinds of other species that are both animal vertebrate,  
14 invertebrate and plant that could have a negative  
15 impact -- and viral for that matter. They could have a  
16 negative impact on our ecology on both sides of the  
17 boundary that we're concerned with. And they're listed  
18 there. And I'm not going to read that slide to you,  
19 but you can see that this is a lot broader than just  
20 Asian carp.

21           The first thing we've got to do, though, is  
22 figure out the aquatic pathways. Now, we are well on  
23 the way to doing that. We had to wait to do these  
24 scoping meetings before we continued doing the  
25 research. So we've already identified 36 pathways. And

1 we've done that in coordination with all the state  
2 Departments of Natural Resource throughout the several  
3 Great Lakes states to determine that. And we feel like  
4 we've got a pretty good characterization. There may be  
5 a small number that we've missed. There may be --  
6 there almost certainly will be improved understanding  
7 of the ones we've identified that we'll do with further  
8 research, but we've got a pretty good handle on where  
9 to look.

10 Then we've got an inventory. The aquatic  
11 nuisance species we've already got a good start on that  
12 thanks to the Fish & Wildlife Service, and then figure  
13 out all the controls, which is really where the rubber  
14 meets the road.

15 Okay. At this point I would like to ask Dave  
16 Wethington to come up and talk about some of the things  
17 that he's done and what he's going to do with the  
18 Chicago Area Waterway System itself. Or are you going  
19 to talk from there, Dave?

20 MR. WETHINGTON: I can speak from here.

21 GENERAL PEABODY: Perfect. Great. Take it  
22 away.

23 MR. WETHINGTON: Thank you. Thank you, sir.

24 Thanks again to everyone for attending today.  
25 It's great to see so many faces here.



1 I want to spend just a couple of minutes  
2 talking about the slide that's behind me. As General  
3 Peabody mentioned, I am the Project Manager for the  
4 Chicago Area Waterway System. I'm a Project Manager  
5 with the Chicago District Army Corps of Engineers.

6 On the right-hand side of the slide you see  
7 behind me is basically a detailed map of the Chicago  
8 Area Waterway System. You'll see the numbers 1 through  
9 5 as you start at the north and progress down toward  
10 the south of the shoreline of Lake Michigan. And  
11 basically those five points are the areas in which the  
12 lakes or the waters of the Great Lakes Basin and the  
13 waters of the Mississippi River Basin have the  
14 opportunity to interact or to mix. And so those are  
15 really the points at which we start looking at  
16 potential aquatic nuisance species controls.

17 Now, what's interesting, what's unique about  
18 this system, and as mentioned previously since it was  
19 an engineered system, is that all five of these points  
20 flow into a single channel much like you would have the  
21 five prongs of a fork flow into the handle of the fork.  
22 They all flow into a single channel, which is where we  
23 have constructed and operate and maintain our electric  
24 barrier which is preventing the spread of Asian carp  
25 into the Great Lakes. That's point number 7 there, as

1 General Peabody is pointing for me.

2 Thank you, sir.

3 So that's one unique feature about this  
4 system is that all five points kind of go into one  
5 trove point, which gives us an opportunity when we're  
6 looking at potential control technologies.

7 Additionally you'll notice that points 1  
8 through 5 have different color codes to them. And the  
9 reason for that is that points 1, 2 and 3 are basically  
10 controlled waterways. And point number 3 I'll clarify  
11 is controlled by point number 6. So I'll go by each  
12 one for you.

13 Number 1 is the Wilmette Pumping Station.  
14 It's a physical structure. Two and 6 are locks. Now,  
15 what's unique about that is that those are physical  
16 structures which could be opened and/or closed, as I'm  
17 sure you've heard in the media talking about closing  
18 the locks. Numbers 4 and 5 are completely uncontrolled  
19 waterways. So, therefore, there's no physical  
20 structure currently in existence that would act as a  
21 sufficient or a technical block between the two  
22 systems.

23 On the left-hand side is a portrayal of our  
24 planned process. We call it a six-step process. And  
25 we're right now in points one and two essentially,

1 specifying problems and opportunities. That's part of  
2 what we're doing here today. We have put together  
3 teams of experts within the Corps of Engineers, as well  
4 as with other agencies, federal agencies, state  
5 agencies, local stakeholders.

6 But what you have to say is important. The  
7 purpose of this NEPA scoping is to -- as Kevin  
8 mentioned at the very beginning, is to tell us what is  
9 significant to you and, just as importantly, what may  
10 not be as significant. So we will use this information  
11 that we hear today to scope or to guide the path  
12 forward for the rest of the study.

13 We're also inventorying and forecasting  
14 conditions. Well, what does that mean? So we need to  
15 kind of identify what are the uses for the waterways,  
16 who are the waterway users, what are their uses.

17 You might have heard a lot about navigation  
18 being a primary use. And that's correct. But there's  
19 also uses, such as, recreation, water supply, water  
20 discharge. Not many folks know, some may, but about 70  
21 to 80 percent of the total flow -- and I was listening  
22 to another -- I'm sorry. Seventy to 80 percent of the  
23 flow of the Chicago Area Waterway System is municipal  
24 wastewater discharge.

25 I was going to relay a small anecdote. I was

1 listening to folks from our Metropolitan Water  
2 Reclamation District speak at a conference just last  
3 week, and they said that that number -- I say 70, 80  
4 percent. They say anywhere from 60 to a hundred  
5 percent. So up to a hundred percent of that flow could  
6 come from municipal wastewater discharge. So that's  
7 obviously a significant use for this system for not  
8 just the city of Chicago, but the entire Chicagoland  
9 area.

10           Additionally, what the system is used for  
11 very significantly is flood risk management. It  
12 doesn't happen very often. I think Mr. Goss may have  
13 mentioned to it earlier is the locks every once in a  
14 while need to be opened when we have significant  
15 rainfall events in the Chicagoland area. The potential  
16 impacts of not being able to backflow water, so  
17 allowing water flow both directions out of the system,  
18 would be significant flooding in the downtown area as  
19 well as throughout the entire Chicagoland area because  
20 of backups due to our defined sewer system.

21           It sounds like a potential, yes, it's maybe a  
22 problem for the city of Chicago, but there is  
23 significant human health and life risk toward this  
24 ability to maintain the system as a flood risk  
25 management.

1           Once we identify what these uses are, we need  
2 to basically go through the rest of these steps and  
3 look at as we're looking at aquatic nuisance species  
4 controls, as we're looking at the different plans and  
5 how we would prevent the spread of aquatic nuisance  
6 species within the Chicagoland Area Waterway System,  
7 what we would do and how we would potentially need to  
8 mitigate for adverse impact.

9           So the current system, the electric barrier  
10 system, has maybe not very many adverse impacts. You  
11 can still have shipping. You can still have flood risk  
12 management. You can still have water supply. However,  
13 if you were to introduce something like a hydrologic  
14 separation, that could have potentially very  
15 significant impacts to all those waterway users. So we  
16 need to understand what those impacts would be and also  
17 be able to provide for mitigation for those adverse  
18 impacts.

19           As was mentioned previously, we are  
20 collaborating with all of our federal family, with  
21 state partners, local agencies, all stakeholders and  
22 the general public. And we look forward to keeping  
23 everyone engaged. As we move through this process, we  
24 will definitely be coming back to speak with you in the  
25 future.

1 Thank you for your time. I appreciate it.

2 GENERAL PEABODY: Thank you, Dave.

3 Okay. Let's go to Mr. Mike Saffran who's  
4 going to talk about the other pathways. And I'll pull  
5 up the slide.

6 Go ahead, Mike.

7 MR. SAFFRAN: Thank you, sir.

8 Again, it's a pleasure to be here.

9 The other pathways -- when we started into  
10 the GLMRIS study, very little was known what was meant  
11 by the other aquatic pathways or relative to what the  
12 risk are there. There was a lot known about the  
13 Chicago Sanitary and Ship Canal. A lot of efforts have  
14 already been made over the last 15 or 20 years to  
15 address some of the issues related to aquatic nuisance  
16 species transfers through the Chicago Sanitary and Ship  
17 Canal, not the least of which is the electrical  
18 barriers that first went in place in the 2002 era. But  
19 for the other aquatic pathways we knew very little.

20 General Peabody has already mentioned the  
21 fact that there was a fear of potentially being  
22 outflanked by Asian carp. And that fear last June he  
23 challenged the division red team to come up with a plan  
24 to be able to do two things. One, to provide him an  
25 inventory of all of the potential aquatic pathways that

1 exist across that Basin Divide, that nearly 1500 mile  
2 long divide between the two basins.

3 And then, two, to provide a preliminary risk  
4 assessment relative to the ability of those aquatic  
5 pathways to facilitate the interbasin transfer of  
6 aquatic nuisance species.

7 We put together a plan. And we were a little  
8 off the 60-day mark. It might have been 67 or 68 days  
9 by the time we actually produced a draft report, but we  
10 had a tremendous amount of help. And when I say a  
11 tremendous amount of help, our plan was to go to the  
12 best available experts within US Fish & Wildlife  
13 Service and USGS to help us with a very important  
14 component, which was to find the list of species and  
15 help narrow those list of species down to the ones that  
16 were the most specific concern.

17 Likewise, we went to the state DNRs and USGS  
18 Water Science Center folks, as well as our own internal  
19 experts that knew the local conditions to help us to  
20 identify where are the pathways at.

21 So we had kind of a two-pronged study that  
22 went off in two different directions simultaneously  
23 initially, and then we brought those teams back  
24 together to complete the risk characterization.

25 The results of what we found out is that, as

1 has already been mentioned, we identified 36 potential  
2 locations where significant water flow could  
3 potentially occur across the Basin Divide. Of those  
4 36, they were mixtures of like four different types of  
5 connections, potential connections, if you will. Some  
6 of them related to remnants of former canals, like the  
7 Ohio and Erie Canal, Wabash and Erie Canal, those types  
8 of canal systems that were initiated back in the late  
9 1800s.

10 We found urban ditches that cross the Basin  
11 Divide in locations -- in a few locations. We also  
12 found agricultural ditches across or along the Basin  
13 Divide. And then we also found a series of natural  
14 wetlands that just exist along the Basin Divide that  
15 during high water events could provide potential  
16 aquatic pathways.

17 But of all the 36 of those locations, we  
18 identified 18 that we believe pose significant risk or  
19 there was enough uncertainty about the risk that we  
20 needed to go into additional study.

21 But one of those jumped out as a potential  
22 near term risk, and that was the Eagle Marsh in Fort  
23 Wayne, Indiana. And there was a combination of two  
24 circumstances there.

25 One is you have two rivers that meet in the



1 town of Fort Wayne. The St. Joseph River flows to the  
2 southwest from southeastern Michigan. And then the St.  
3 Mary's River flows up into Fort Wayne from south or  
4 west central Ohio.

5           So you've got two rivers flowing, one  
6 northwest, one flowing southwest, that come together in  
7 the town of Fort Wayne. And when you have significant  
8 events there like the largest storm you would expect to  
9 occur in any given year, water backflows from the  
10 Maumee River Basin, which is formed by those two  
11 rivers, back across the town of Fort Wayne and what's  
12 called now the Eagle Marsh, into a tributary of the  
13 Wabash River.

14           When you have up to a 10 percent annual  
15 return frequency storm or the largest storm you would  
16 expect to occur in any given ten year period, the depth  
17 of the water that goes across that Basin Divide is  
18 about four and a half feet. So very potentially  
19 significant aquatic pathway there.

20           And then as Mr. Goss has already mentioned,  
21 downstream in the Wabash River there are a significant  
22 population of Asian carp. We have not detected any  
23 Asian carp within about 25 miles of the location of  
24 Eagle Marsh, but below that point there have been  
25 significant observations of Asian carp, bighead and

1 silver.

2           So the combination of those two things led us  
3 to call an on-site meeting near the end of July. We had  
4 -- all the important stakeholders were there. We had  
5 the city of Fort Wayne represented, the county  
6 surveyor. We had the National Resources Conservation  
7 Service, which help supports the Little River wetlands  
8 project, which is also a non-governmental organization  
9 that was involved there. We had the USGS, the Indiana  
10 Department of Natural resources.

11           We put our heads together and decided what --  
12 to determine what can we do to address this relatively  
13 near term risk. And we relatively quickly got to the  
14 solution that we could probably get some sort of a  
15 temporary barrier like was erected in the Chicago  
16 Sanitary and Ship Canal done fairly quickly.

17           But the Corps of Engineers couldn't take the  
18 lead on that, because if we were to implement something  
19 like that, it would take us -- we would have to go  
20 through and comply with NEPA. It would probably take  
21 us a minimum of six to eight months if everything went  
22 perfect. We didn't think we had that much time.

23           The Indiana DNR stepped up to the plate. U.S.  
24 GSA assisted by helping provide some funding. And lo  
25 and behold within less than 60 days of that meeting

1 there was an actual fence in place.

2 And so we have a fish barrier there at the  
3 Eagle Marsh that has a design life of five years. And I  
4 believe it's buying us a window of time to develop a  
5 more permanent remedy.

6 The Corps of Engineers right now is  
7 conducting a feasibility study of the options and  
8 technologies to prevent transfer at that location. For  
9 a long-term remedy we expect to have a report on that  
10 before the end of this calendar year.

11 And then last, but not least, on the other  
12 pathways or other aquatic pathways is we are completing  
13 the risk characterization. And right now we have a  
14 draft study plan out that is being distributed or is  
15 being considered among the agencies. We hope to have  
16 that finalized shortly. And then again to complete that  
17 report before the end of this calendar year.

18 GENERAL PEABODY: Thanks very much, Mike. I  
19 appreciate that.

20 Okay. If you recall, at the beginning I  
21 indicated that we can only do work if we have two  
22 things, an authority and funding. So we got the  
23 authority to do this in the Waterway Resource  
24 Development Act of 2007, which I think went into law in  
25 December of '07 or January of '08. But we didn't have

1 any funding until June of '09. And that initial  
2 funding that came down was somewhere around \$200,000. I  
3 don't have the precise amount. We've received  
4 incremental funding since then. But if we don't have  
5 adequate funding, we can start things, but we  
6 definitely can't finish them.

7           We've since then been able to work with EPA  
8 to get some supplemental funding from the Great Lakes  
9 Restoration Initiative, which has been decisive in our  
10 ability to move forward aggressively with this funding  
11 -- or with this study and was very decisive in being  
12 able to do the other pathways risk characterization  
13 that Mike talked about.

14           I won't go over the details, but on the left  
15 side of this chart you can see all the things that  
16 we've done. And this correlates to the details of the  
17 study process that Dave talked about.

18           What's more important and relevant to your  
19 interest is what we've produced. And that's listed on  
20 the right. And just to highlight, we do have a  
21 literature review of what we know or what scientists  
22 have studied related to the Asian carp. That helps  
23 inform what we know and helps inform additional study  
24 efforts that we need to get related to that specific  
25 species.

1 I talked about the white paper of the various  
2 species that Fish & Wildlife really was responsible  
3 for. And Mike talked to you about the risk  
4 characterization, the Eagle Marsh. So we're not  
5 waiting for a perfect product before we actually cycle  
6 out reports and interim studies and interim products  
7 and interim solutions in the case of Eagle Marsh.

8 Okay. This is always a popular slide. This  
9 is the slide that says what our best case scenario is  
10 for the project schedule. What I want to emphasize,  
11 again going back to my initial comments, is we have  
12 great confidence in the multiple actions that we as  
13 federal agencies under the guidance and support of Mr.  
14 Goss and others is effective at stopping the Asian carp  
15 from developing a sustainable population above the fish  
16 barrier.

17 What that does is provide us the time that we  
18 need to do this study properly and get it right. And  
19 that is really crucial. If we have a predetermined  
20 outcome that we say, well, this is obviously the right  
21 solution, therefore, we must go to it, if we have a  
22 predetermined timeline that says, well, we're going to  
23 give you this much time and you must finish the race in  
24 this much time no matter how well trained an athlete  
25 you may or may not be and no matter whether you can

1 actually get the information you need to get there,  
2 then almost assuredly we're going to come up with some  
3 optimal results that may turn out to be ineffective and  
4 are almost definitely going to be an unoptimal use of  
5 the taxpayers' dollars. And that is not what we think  
6 is the appropriate way to do it. And, oh, by the way,  
7 it's not what a whole host of series of laws and  
8 policies tell us to do.

9           We have the time to do this right. We need  
10 to get it right. It's important to get it right. We're  
11 not committed to a permanent, perfect solution. We're  
12 committed to trying to develop incremental solutions en  
13 route to the permanent, perfect solution, which is  
14 almost assuredly going to take years and years.

15           Now, we are -- the other thing I want to  
16 emphasize is we have the right people on the case. We  
17 have our best professionals that are working the study.  
18 We have the best professionals from the other federal  
19 agencies that are supporting us in doing this. And we  
20 feel very confident that we can get to where we need to  
21 be doing that.

22           But this is as complex as it gets. I can't  
23 say with certainty that this is the most complex study  
24 the Corps of Engineers has ever done, but it compares  
25 in complexity and perhaps exceeds complexity of things

1 like the Everglades Restoration Study that we're doing,  
2 which is an extraordinarily complex ecosystem, or the  
3 Louisiana Coastland Restoration Study that we're also  
4 doing that we've already spent over \$25 million on and  
5 still don't have a recommended solution for because  
6 it's simply so complex.

7           Next slide. Okay. We've already really kind  
8 of hit this in terms of the interim products, but we're  
9 pretty confident that this will help us incrementally  
10 devise and execute solutions before the study is done  
11 so that we can incrementally reduce the risk and  
12 increase the confidence that invasive species can't  
13 transit between the two basins.

14           So what can you do? Well, first of all, come  
15 to meetings like this. We really do need your input.  
16 Your concerns, your encouragement, your criticisms  
17 they're all very valued. This is part of how our  
18 nation works. This is why I wear the uniform, because  
19 this form of government as challenging as it can be, as  
20 Winston Churchill said, is still the best form of  
21 government that there is on the planet.

22           There's a list of things, specific things,  
23 data information requirements that we have that are  
24 listed on this slide that you or others may be able to  
25 provide to us. We look forward to that kind of

1 information, because it really can help us.

2           And in terms of the meetings, this is the end  
3 of the line. The original meeting was the February 3rd  
4 here. Obviously we delayed it. But this is the last  
5 Scoping Meeting. And if you have any specific  
6 information you want to get into the record about your  
7 concerns, you have until the end of this month to post  
8 that to our Website or to send that to us.

9           And, lastly, this is a modern information  
10 age, and there's all sorts of ways to stay in touch,  
11 whether it's via the Web or the social media. And if  
12 you want to sign up for our Twitter or Facebook  
13 accounts, we would be happy to have you do that. And  
14 we look forward to your interaction in that regard.

15           With that, I'm going to turn it back over to  
16 our moderator, and we'll get forward into our questions  
17 here.

18           Thanks.

19           MR. BLUHM: Very good. Thank you, sir.

20           Well, folks, when you look at it, now we've  
21 been talking to you for about an hour. You've heard  
22 the different things that we have been working on. And  
23 when you look around the room, we've got about 60  
24 persons here that have taken the time out of their busy  
25 schedule to be with us today.



1           As I look around, I see faces that we've seen  
2 at other hearings that we've had in this series. I see  
3 some younger faces and some that have a little more  
4 experience. And that tells us that this is a very  
5 important topic for each and every one of us here. So  
6 I really appreciate you all taking the time to come  
7 here and work with us.

8           As we start our second portion of today's  
9 first session, I would like to note that our study Web  
10 site is a very good source of study information.  
11 Interested persons can subscribe to the study's E-mail  
12 list through that project Web site. And the Corps will  
13 use the GLMRIS E-mail list to distribute any updates on  
14 such things as documents that have been added to the  
15 Web site, opportunities for additional public  
16 involvement and other important news and events.

17           The GLMRIS project Web site can be found on  
18 the study brochure, the written comment form, and other  
19 things, such as, the little business card that we have  
20 all of our information consolidated on. So use this as  
21 a tool.

22           Another way, as the General just mentioned,  
23 we have the social media aspects and other things to  
24 help you keep in focus.

25           Now moving into the oral comment period for

1 the meeting. Those of you who had indicated on the  
2 registration form that they would like to make a brief  
3 three minute formal presentation or statement and ask  
4 questions will have an opportunity to do so. If a  
5 person would like to ask a question in addition to  
6 making comment, we ask that you manage your time to  
7 allow for your comment, question and response in that  
8 same three-minute period. The Corps will take and  
9 answer any questions that, indeed, are answerable.

10 Again, in order for everyone to have an  
11 opportunity to speak, we ask that everybody abide to  
12 the three minute time limit. After everyone has had an  
13 opportunity to address the panel and if time permits,  
14 those who have additional comments or questions will be  
15 given the opportunity and re-enter the comment queue.  
16 If time does not allow for those that wish to address  
17 the panel for a second time, please note that you can  
18 enter any remaining comments on the written comment  
19 form, or in the hallway here we do have laptop  
20 computers provided for your convenience. You can enter  
21 them directly onto the project Web site.

22 Please note all forms of comments received  
23 during the scoping period are weighted equally. So  
24 whether you get up in front of the forum here, use the  
25 comment form or the Web site as an medium, you can use

1 that, and they are all equally weighted.

2 I'll show you a set of visual slides that  
3 we're going to use to help manage our time. We've put  
4 this together as a tool to help manage the three-minute  
5 period that we're working with. The projector itself  
6 will show a green box. I'll start that once you've  
7 started your actual comment. That will run for two  
8 minutes. After the two minutes, it will switch to a  
9 yellow color and indicate one minute remaining and will  
10 update every 15 seconds until the three minutes has  
11 expired, and then turn to a simple color of red.

12 If at the end of three minutes you're still  
13 speaking, I will announce to you that the three minutes  
14 has finished, and ask you to finish a statement.

15 We do feel that this procedure is the most  
16 fair and will give everybody an equal opportunity to be  
17 heard.

18 Also, I would like to mention that we have a  
19 stenographer with us this evening. She's located right  
20 off to the side of the panel here. She will be  
21 recording all comments and questions.

22 We will ask that anybody that is going to  
23 make a statement to us come to a microphone. We've got  
24 a microphone located on both sides of the auditorium  
25 here. We want to make sure that you can be heard. So

1 make sure that the microphone is placed and positioned  
2 closely. We will have helpers staged at each  
3 microphone.

4 Before you give your comment or question, we  
5 would like to ask that you give your name and help us  
6 with that. If you can spell it, if it's a tricky  
7 spelling, that would be most appreciated. Your  
8 organization and affiliation, if you represent any. And  
9 then for some statistical reasons if you could give us  
10 your zip code, that will help us as we move forward.

11 And then, again, speak into the microphone.  
12 And we ask that you speak slowly. And we do thank you  
13 for your time.

14 All right. So you'll notice on the two sides  
15 here we've got one called the blue line, one called the  
16 yellow line. And I've also got a blue and a yellow  
17 sheet here. Anybody that has registered with us today  
18 was given either a blue or a yellow card. We will  
19 start with the blue cards. These are the ones for the  
20 folks that had preregistered on our project Web site  
21 before today. Once we're through that list, then we  
22 will go to the yellow line on this side of the room and  
23 hear from those who have registered to speak today.

24 Now, I will call off the names of the first  
25 two persons to start the queue. The second person does

1 not need to stand in line. I will just keep one person  
2 in the queue all along.

3 And I've got to get my computer to go back on  
4 here.

5 And we'll just go in an orderly fashion like  
6 that.

7 So the first person that has registered with  
8 us today is Constance VandePolder. Following second up  
9 will be Michael Bodary.

10 So if Ms. VandePolder is here, we'll start  
11 with you. When you're all set, just can you start with  
12 your name and information.

13 MS. VANDEPOLDER: I'm Connie VandePolder from  
14 Michigan here, Battle Creek area.

15 I've been raised and lived in Michigan most  
16 of my life. I have come today with a real sense of  
17 history and responsibility and caring that I think you  
18 see demonstrated among all of us that are here.

19 Michigan has historically had a true  
20 appreciation for responsible management of our natural  
21 resources. We think of Hiawatha, what we've all heard  
22 "By the Shores of Gitche Gumee," et cetera. We're all  
23 familiar with the Erie Canal. And certainly we all  
24 know about Illinois and Chicago politics. Enough said.

25 My family background is relatives on my

1 father's side of the family did come through the Erie  
2 Canal. They settled four farms on the lakeshore near  
3 Benton Harbor, Michigan, right along the southern part  
4 of the lake. I was raised with swimming, sailing,  
5 fishing. And, yes, I recognized responsibility of  
6 commercial and economic issues.

7           My great grandfather was one of the most  
8 outstanding fruit farmers who raised Michigan peaches  
9 and grapes, shipped them over the lake from St. Joseph  
10 to be sold in Chicago. He set most times the highest  
11 price his quality was that good. So you're listening  
12 to one who has deep roots here and a respect and a  
13 desire for Michigan to bloom.

14           We all know right now what time we're having.  
15 I personally know that we have international borders to  
16 consider. Michigan perhaps has most at stake standing  
17 with boundaries on four of the Great Lakes, four of  
18 them.

19           And we've had a history of being interested  
20 in animals and agriculture. Our area, of course, had  
21 the northwest territory and grant rights for land  
22 grants for colleges, and we know about the land-grant  
23 colleges and certainly their expertise in calling to  
24 restore and help Michigan.

25           I would ask that we not just consider an

1 emergency Band-Aid answer or an answer that is the  
2 least dollars outgo, because we have to get this right  
3 the first time.

4 Thank you.

5 MR. BLUHM: Very good. Thank you.

6 Okay. Second on our list Mr. Bodary.

7 Following him will be Barbara McCallahan.

8 As soon as you're adjusted there, you can go  
9 ahead. If you want to start with your name.

10 MR. BODARY: My name is Michael Bodary. I'm  
11 a City Council member for Ypsilanti here. And I want  
12 to welcome you all to Ypsilanti, first of all.

13 I'm here to appeal to the Army Corps of  
14 Engineers and the president's administration to support  
15 the protection of the Great Lakes from further attack  
16 of invasive species.

17 One fifth of the world's freshwater is  
18 contained in this ecosystem. Since the beginning of  
19 commerce on the lakes, there have been many intended  
20 and unintended introductions into the system. Sea  
21 lampreys were introduced that did severe harm to the  
22 lake trout. The poisoning of the lampreys in their  
23 spawning streams almost eliminated the problem, but  
24 they've made a resurgence. The question of whether to  
25 continue to bring back the poisons ask if it is wise

1 for humans and other species' well-being.

2           Gobies have been introduced that have found  
3 that they cannot compete, neither yellow perch and  
4 other species for food sources. In many areas they  
5 have become more common catch in fishing than used to  
6 be for the more desirable species. Yellow perch have  
7 been in decline for many years and have not been able  
8 to survive the competition and will not be able to  
9 survive the competition of Asian carp.

10           Now it is before us that we can prevent  
11 another species from supplanting native or the  
12 carefully managed introduction species. The multi-  
13 billion dollar sport fishery industry is just one  
14 affected area. Pleasure boating and enjoyment of  
15 beaches can be negatively affected, also.

16           The impact extends over an international  
17 boundary. Yes, the closing of the Chicago Sanitary  
18 Waterway affects some commerce in the area of Illinois  
19 and Indiana, but does it justify ignoring the problem  
20 until it is too late. These species of Asian carp have  
21 shown that they can take over and out compete the  
22 native fish.

23           Most of us probably will not live to see the  
24 impact of the interaction of -- at this critical  
25 juncture, but we owe it to our children and our



1 grandchildren to stop the delays and take action now.  
2 Please close the canal until we can find a permanent  
3 solution to the Asia carp invasion. Once the lakes are  
4 invaded, it will be too late.

5 Now, briefly I would just like to quote a  
6 couple of things from an article in the Journal  
7 Sentinel.

8 "The public is clamoring for the U.S. Army  
9 Corps of Engineers to speed up its five-year study on  
10 how to permanently block Asian carp."

11 "Meantime, Army Corps officials say the  
12 public doesn't need to worry: The electric fish  
13 barrier that it's operating at about half its potential  
14 voltage on the canal about 35 miles south of Lake  
15 Michigan."

16 How do they know that?"

17 Their study says it proves it.

18 But they will not be releasing their study  
19 until winter of 2014. That's a long ways away.

20 Also, with only three volts of power when it  
21 could be doing six volts of power, I would be concerned  
22 that it's not really doing the full job that it could  
23 be doing.

24 And there's several other things in this  
25 article. I'll leave that to be entered into the

1 record.

2 MR. BLUHM: Very good.

3 Could I ask for your zip code before you --

4 MR. BODARY: It's 48197, right here.

5 GENERAL PEABODY: Thank you, sir. I  
6 appreciate that.

7 I would like to clarify just a couple of  
8 points. The first is that we have not made a  
9 definitive determination about whether lock closure is  
10 an effective solution or not. We studied it on an  
11 immediate basis, and as a result of fish biologists'  
12 opinions, concluded that we were not able to alter the  
13 way we currently manage the locks.

14 Lock closure is a possible alternative that  
15 will be examined as part of the study. So I've been  
16 emphasizing that to the navigation industry that just  
17 because we haven't made a decision to close the locks  
18 doesn't mean we won't.

19 I do want to emphasize, however, that under  
20 the current structures, as Mr. Wethington pointed out,  
21 if we were to close the locks today, there would still  
22 be two alternative pathways to the Little Calumet and  
23 Grand Calumet Rivers that would allow various species  
24 to migrate through. So lock closure itself is clearly  
25 not a solution that is going to work in the short term

1 just by itself.

2 Now, the second point is let me talk about  
3 the fish barrier operating parameters. That's a very  
4 important point you brought up, and I think it's  
5 important that the public have a clear understanding of  
6 what those parameters are and why we operate them that  
7 way.

8 There was a study done by Dr. Mark Pegg I  
9 think in around 2003 or 4 that while we were designing  
10 the second barrier -- the first barrier was a  
11 demonstration product that basically used off-the-shelf  
12 technology in the parameters that were used in much  
13 smaller scales. That proved to be effective, but those  
14 were smaller scales, and basically stopped fish from  
15 going to inlands and stuff like that.

16 The study he did indicated that it may take  
17 up to four volts per inch to deter fish from swimming  
18 through the barrier. We did follow-on studies with our  
19 Engineering Research and Design Center to confirm what  
20 Dr. Pegg or deny what Dr. Pegg had studied. And what  
21 we found is he was apparently right. The first barrier  
22 can only go up to one volt per inch. And, by the way,  
23 there's several parameters we followed, but to simplify  
24 understanding we're just going to focus on the voltage  
25 parameter, but there's other parameters that you have

1 to modulate to be able to effectively stun or deter the  
2 fish.

3           The studies that we have done show that fish  
4 five and a half inches and larger are stunned. Not  
5 just deterred, but stunned. In other words, they're  
6 zapped into unconsciousness by the current operating  
7 parameters that we have operating in the canal today.  
8 And those parameters are two volts per inch to be  
9 clear. We can go up to close to four volts. That  
10 design was based on the Dr. Pegg study, but we hadn't  
11 completed our research up to that point.

12           There are two issues that would prevent us  
13 from going up to the full parameters. The first is  
14 safety. And whether you all agree or not, we are  
15 obligated to operate the canal system for all the  
16 purposes that are authorized under law, and that  
17 includes currently navigation. If the law changes,  
18 we'll change the way we operate the projects.

19           But the navigation industry has to be able to  
20 operate safely through that stretch. And the higher  
21 electricity, the more juice we put in the water, the  
22 more challenging the ability to operate safely becomes.

23           So we have done a series of safety tests with  
24 the Coast Guard. And we're confident that we can  
25 operate navigation safely. But the Coast Guard has

1 many, many concerns. And they've put a whole host of  
2 regulation restrictions on navigation in that stretch  
3 of the waterway.

4           To go to higher parameters we have to have  
5 more studies, more information. We're doing those  
6 studies with the Coast Guard. We'll submit to them a  
7 safety report probably in the next two months that will  
8 tell us or that would tell them what the impacts are to  
9 safety and that they would have to evaluate if we went  
10 to higher operating parameters.

11           Now, what would those parameters be. It gets  
12 to the second point of the research. Current research  
13 indicates that very small fish, basically around two to  
14 three inches in size, may not all be stunned by the  
15 electric field that we're currently operating. It has  
16 to go slightly higher to 2.3 volts. Again, simplifying  
17 it.

18           Well, so why don't we go to 2.3 volts? Well,  
19 the answer is the fish biologists tell us that fish of  
20 that size are younger than a year, so they're less than  
21 a year old, and fish less than a year old tend to hang  
22 out where they're born. So that they don't get eaten  
23 by other fish, they hide in nooks and crannies. And  
24 the way -- the location where fish are spawned and  
25 would be that old are several pools down from where the

1 fish barrier is.

2               So the fish biologists tell us with  
3 confidence that they think there's an extremely low  
4 chance that fish of that size might be near the fish  
5 barriers.

6               The other reason that we need to do more  
7 research on this particular issue is because it's  
8 impossible in the laboratory to replicate the field  
9 conditions. So the fish are not only influenced by the  
10 electrical current, but by the actual water current.  
11 And the higher the water velocity, combined with the  
12 electricity, the more difficult for them to swim up  
13 against it. And obviously the smaller the fish, the  
14 more difficult it is for them to swim against the  
15 velocity.

16              John, do you want to add anything to that?

17              MR. GOSS: That's fine.

18              GENERAL PEABODY: I think it's very  
19 important. You brought up two very important points  
20 that I think it's important for the public to  
21 understand. And if you have any follow-up questions on  
22 either of those, we would be happy to engage you with  
23 them.

24              But we will do follow-on research on the  
25 operating parameters for the smaller fish.

1           MR. GOSS: You might just clarify later this  
2 month you're going to have more information.

3           GENERAL PEABODY: Yes, that's a great point.  
4 Thanks, John.

5           At the end -- well, hopefully in about two  
6 weeks we intend to publish the research report related  
7 to the research we've done thus far.

8           MR. BODARY: Well, just to say there was some  
9 agreement and some disagreement with some of the  
10 statements you make in this article from other sources.  
11 So it's not --

12          GENERAL PEABODY: That wouldn't be the first  
13 time I've read something in the press that wasn't  
14 precisely accurate.

15          MR. BODARY: Or two scientists don't even  
16 agree with each other sometimes. So -- but it was an  
17 interesting article that tried to present both sides,  
18 your side and their side.

19          GENERAL PEABODY: Yes, sir.

20          MR. BODARY: And that's our concern is that  
21 as citizens we want to make sure that we can get as  
22 many safeguards in place no matter who's right.

23          GENERAL PEABODY: Right.

24          MR. BODARY: A hundred years from now we'll  
25 know.

1           GENERAL PEABODY: And we agree with you. We  
2 agree with you, sir. And that's why we don't -- we're  
3 not fixed on what we're doing today. And we'll change  
4 as information dictates that we should change.

5           MR. BODARY: Thanks for the follow up.

6           GENERAL PEABODY: Thank you, sir. Appreciate  
7 it.

8           MR. BLUHM: Very good. Thank you, sir.

9           Okay. Third on our list Ms. McCallahan. And  
10 then following will be Thomas Ridge.

11           When you're ready, go ahead.

12           MS. MCCALLAHAN: Thank you.

13           Good afternoon, gentlemen. I want to thank  
14 each of you for your presentations.

15           I'm Barbara McCallahan, the Director of  
16 Community Affairs for U.S. Senator Debbie Stabenow. And  
17 I will be reading the following prepared statement.

18           MR. BLUHM: Can I ask for your zip code  
19 quick?

20           MS. MCCALLAHAN: 48226.

21           MR. BLUHM: Thank you.

22           MS. MCCALLAHAN: There are many challenges we  
23 face in protecting our Great Lakes from invasive  
24 species. Senator Stabenow has asked me to attend today  
25 on her behalf to address an imminent threat of concern



1 to her and the people of Michigan, the threat of Asian  
2 carp.

3 Asian carp pose a grave threat to our \$7  
4 billion fishing industry, \$16 billion recreational  
5 boating industry, and the entire Great Lakes ecosystem.

6 We are glad to see so many of you here today  
7 to share your concerns with the Army Corps, because  
8 this is so critical to our Michigan way of life.

9 Senator Stabenow has been a real champion on  
10 the issue of Asian carp and has been working with  
11 Congressman Dave Camp to lead the effort in a  
12 bipartisan way on the federal level. This has been one  
13 of her top priorities for Michigan, which is why she  
14 has conducted hearings in Washington and introduced the  
15 Stop Asian Carp Act last week. This requires the  
16 speedy creation of an action plan to permanently  
17 separate Lake Michigan from the Chicago Area Waterway  
18 System. This is the only way to protect our Great  
19 Lakes from Asian carp and other invasive species.

20 The Chicago locks need to be closed  
21 immediately while we work on this long-term action  
22 plan, but closing the locks isn't enough to solve the  
23 problem. We need more aggressive, decisive action, and  
24 we need it right away.

25 Thank you.

1           And for anyone who's interested, press  
2 releases of the Stop Asian Carp Act are back here at  
3 the rear of the room.

4           Thank you, gentlemen.

5           GENERAL PEABODY: Thank you.

6           MR. BLUHM: Thank you.

7           Next we'll hear from Mr. Ridge. Following  
8 will be Andy Buchsbaum. I'll have to apologize for  
9 that one.

10          When you're ready, sir, go ahead.

11          MR. RIDGE: We want to make people aware of  
12 the dangers that Asian carp can bring to the Great  
13 Lakes. If we don't stop them, then they can devastate  
14 the entire lakes. If that happens, then no one will be  
15 able to enjoy the fantastic Great Lakes.

16          We can stop the carp by fixing the electric  
17 fence or by reversing the flow of the river. If we  
18 don't do either of these, then the carp will get in and  
19 devastate the lakes. Some of you may like boating, but  
20 if the carp get in, you cannot go boating in the Great  
21 Lakes.

22          Everywhere the carp have been, they  
23 completely devastate the place. The food chain in the  
24 Great Lakes will slowly be destroyed by the carp.  
25 People who count on fish for their food will go hungry.

1 Tourism will die. The Great Lakes won't be so great  
2 anymore.

3 GENERAL PEABODY: That's awesome.

4 MR. BLUHM: Thank you.

5 GENERAL PEABODY: Thank you.

6 MR. BLUHM: Let's give him a hand.

7 GENERAL PEABODY: When you graduate from  
8 college, I've got a job for you in the Army Corps of  
9 Engineers, help us out. Thanks.

10 MR. BLUHM: Thank you.

11 And with that, I believe Mr. Ridge is our  
12 youngest speaker of the series. So --

13 GENERAL PEABODY: All right.

14 MR. BLUHM: -- that takes a lot. Thank you.

15 Okay. We are on number 5. Sir, if I could  
16 have you maybe help me with your last name. I think I  
17 butchered it quite poorly.

18 Following will be Kyle Cragg.

19 MR. BUCHSBAUM: No, you butchered it fine.

20 It's Andy Buchsbaum. My zip code is 48104.

21 And, Mr. Ridge, you're a hard act to follow.

22 Nice job.

23 And, in fact, you've heard from Mr. Ridge and  
24 others about some of the terrible things that could  
25 happen if Asian carp get in the system. So I'm going

1 to focus my comments today on the study and on what  
2 GLMRIS should cover and what it may not be covering.

3 As you know, the National Wildlife  
4 Federation, I'm the director of the Great Lakes office,  
5 and we've already commented multiple times with written  
6 comments. So I'll be focused here, because I only have  
7 a few minutes.

8 First off, the GLMRIS study is a feasibility  
9 study, which means that it's weighing costs and  
10 benefits of options that have been identified. The  
11 problem that we have is the way those options are being  
12 identified right now.

13 The Corps in its presentation today, its  
14 written materials has consistently said that although  
15 Congress has said that the feasibility study is one  
16 that should identify ways of preventing Asian carp from  
17 getting into the system, the Corps believes that the  
18 way to interpret the word prevent is to reduce the risk  
19 to the maximum extent possible. That is not a normal  
20 interpretation or definition of the word prevent. And  
21 certainly, you're right, that sometimes it's impossible  
22 to do a hundred percent prevention because of  
23 technology considerations, but then that's what you  
24 said. You say we prevent to the extent technically  
25 possible, not reduce the risk to the extent possible.

1 That's a completely different standard, one that is not  
2 authorized by Congress.

3 The reason this is important is because that  
4 means that your study is going to be considering  
5 options that are not designed to prevent Asian carp  
6 from getting into the Great Lakes. It's that simple.

7 Your study is going to be -- is considering  
8 the feasibility, weighing the costs and benefits of  
9 doing things that -- taking measures that don't do the  
10 job. And we believe that's actually illegal, because  
11 Congress has said what you have to do, number one.

12 We also believe it's ill-advised. It's  
13 starting with the assumption of failure. Because if  
14 you're simply -- if you're looking at options that  
15 reduce the risk to the maximum extent possible, however  
16 that is defined, then what you're looking at is putting  
17 in place measures like acoustic bubbles or tinkering  
18 with the electric fence and saying what are the costs  
19 and benefits of that. And, of course, the costs of  
20 that are going to be far lower, and the benefits we  
21 presume would also be far lower, but the costs would be  
22 far lower than some of the other things you're thinking  
23 about that you actually have to do to prevent. So  
24 that's number one.

25 Number two is that the study -- because

1 you're considering so many different things, including  
2 many options that you're not authorized to consider,  
3 the study that you're doing is taking much too long.  
4 I'll get to urgency in a second, but the idea that it's  
5 going to take five years to complete the study.

6           Now, you say that there are going to be  
7 products, interim products, along the way. The interim  
8 products will be fine and probably useful for the  
9 public, for others to understand things. But the way  
10 that Congress works now they can't do anything until  
11 you finalize the study. So if it takes you five years  
12 to finalize a study, it doesn't matter what the interim  
13 products are. No action can be taken that will at  
14 least permanently solve the situation in the Chicago  
15 canals and across the region until a final study has  
16 been done.

17           Now, you can take actions based on  
18 preliminary studies that are preliminary actions, but  
19 not the final actions. This is my understanding, not  
20 the final action. Which means that we're looking at a  
21 problem that's going to continue, risks that will  
22 continue. Playing Russian roulette with the Great  
23 Lakes will continue not just for the five years of the  
24 study, but then as long as it takes to implement the  
25 study afterwards.

1           Finally I want to point out two things that  
2 we learned last week at the Great Lakes Commission  
3 meeting in Washington from Dr. Leon Carl, who's part of  
4 your task force, one of the chief scientists  
5 responsible for figuring out what it would mean if the  
6 carp got in the Great Lakes. We've heard over the  
7 years that -- these myths that the electric fence, for  
8 example, is all you need to keep carp out of the lakes.  
9 We know that's not true certainly because of the DNA.  
10 The eDNA samples in the fish that were actually found  
11 at least leads one to believe that the fence are not  
12 going to be all that you need.

13           The other myths we hear, well, even if they  
14 get past the fence, they can't reproduce in the lakes  
15 or the canals. Even if they can reproduce, there's not  
16 going to be enough to eat for them, so this isn't as  
17 big of a problem as we actually -- everybody said.

18           Well, we believe that science has already  
19 proven that wrong. But what Dr. Carl said at this  
20 Great Lakes Commission meeting really -- he said  
21 afterwards it really made his hair stand up on end  
22 because of the concern.

23           The first thing they found was that the fish  
24 -- Asian carp larvae begin to swim vertically on their  
25 own much sooner than they thought, which means they

1 don't need -- they don't think they need nearly as long  
2 a stretch of water, turbulent water, before they can  
3 reproduce and breed, which means that the hundred  
4 kilometer limit that we believed was necessary is not  
5 necessary. In fact, wave action in the Great Lakes --  
6 he didn't say this, but other scientists said that wave  
7 action in the Great Lakes themselves might be all  
8 that's needed to keep the eggs suspended enough before  
9 reproduction can happen.

10               Second thing he said was that he found that  
11 Asian carp -- he found that -- he also found that Asian  
12 carp they thrive -- they eat just fine when the food is  
13 Cladophora. Cladophora, which is a native algae in the  
14 Great Lakes, which really kind of bedeviled a lot of  
15 the coastal areas of Lake Michigan, and which indicates  
16 that there's a lot of food in the Great Lakes  
17 themselves that will enable Asian carp to thrive.

18               With those two things, I know I'm over my  
19 time. I want to just point out that this is an  
20 incredibly urgent problem, and we can't wait five years  
21 for this study to be completed before we address it.

22               Thank you.

23               MR. BLUHM: Thank you.

24               MR. GOSS: Thanks, Andy, for pointing those  
25 things out.



1           Certainly we are following up on all of the  
2 preliminary research things that you talked about. And  
3 we have a wide range of other research and development  
4 projects that are being worked on. We had a meeting of  
5 over 50 scientists about a week ago who are working on  
6 the various projects that are in the Asian carp  
7 strategy. And we'll be continuing to bring forward  
8 information as we get it, and certainly looking at ways  
9 to use things, as Leon pointed out, to adjust our  
10 strategy. So we are working on the adjustments. We  
11 will have some comments on that very soon. Thanks.

12           GENERAL PEABODY: Excellent points, Mr.  
13 Buchsbaum. Thanks for coming again.

14           First of all, I want to be clear, we actually  
15 -- you made a statement that I think we agree with, and  
16 that's we want to prevent to the extent possible. So  
17 maybe it's a matter of semantics and misunderstanding  
18 each other, but it's not like we want to focus on risk  
19 reduction to the exclusion of prevention, not at all.

20           What we're trying to do is be open and  
21 transparent and be clear to the public that the goal  
22 that the Congress has given us, in fact, may not be  
23 achievable. It's something we don't know before we can  
24 get through the study process.

25           But that -- I want to be very clear. I think

1 I stated this when I did the presentation. I do want  
2 to be clear to you, sir, the goal is prevention. That  
3 is definitely what we want to do. But all of our  
4 professional experience informs us that goals of  
5 getting to perfect solution are not always achievable.  
6 And we don't want to wait for the perfect and let that  
7 be the enemy of the good if we can get to some  
8 incremental solutions now.

9           We already have executed incremental  
10 solutions to improve the fish barrier and improve its  
11 effectiveness and reliability. You're very well  
12 informed. I think you're well aware of these issues.  
13 And the authority that's allowed us to do that is the  
14 Section 126 authority. I am not an expert on this,  
15 because I haven't read the legislation closely.  
16 However, it is my understanding that the current  
17 continued resolution we're operating under does not --  
18 Section 126 does not apply.

19           Now, that's not a concern for the moment,  
20 because it's a very temporary measure. It's only two  
21 weeks long. But as I think you probably are aware,  
22 Secretary Darcy wrote a letter to the committees  
23 recommending that the Section 126 authority or an  
24 authority similar to it be extended in time for a  
25 period of two years, not one year, and then be

1 broadened to cover the entire Great Lakes and  
2 Mississippi River Interbasin Study. Now, we don't know  
3 what Congress will do with that request, but we are  
4 engaged with dialogue at the staff level on that issue  
5 and answering their questions related to.

6 I'm not sure what you meant by options not  
7 authorized to consider, because we, in fact, intend to  
8 consider all options that appear to be feasible or  
9 viable. I think one of the things I did say was that  
10 the study authority tells us to look at available  
11 options and technologies. And so one of the things  
12 we're not going to do is pursue something that looks  
13 like it can't be executed in the near term.

14 Now, I can see a scenario where if we find an  
15 optional alternative that looks promising in the long  
16 term but it's not readily available us pursuing that  
17 under the study authority to try to get to that perfect  
18 nirvana end state where we have real true prevention.  
19 So I'm not rejecting that out of hand. I'm just making  
20 clear what we understand the study authority to tell  
21 us.

22 Now, one of the things that really concerns  
23 us with regard to some of the options is you talked  
24 about hydro separation and that's an alternative that  
25 needs to be pursued. We certainly will pursue that.

1 One of the concerns with executing hydro separation in  
2 heavily urbanized terrain with complicated waterway  
3 uses like Chicago has is the ability to do that on an  
4 expedited timeline. It's unlikely that it could be  
5 done quickly. It's likely to be extraordinarily  
6 expensive. And in these debt-ridden times, it's  
7 uncertain whether those kinds of solutions will be  
8 funded.

9           We will not make a recommendation based on  
10 cost. We will simply outline what we believe the  
11 likely cost scenarios to be, and then the decision  
12 makers that are far above my level, which is basically  
13 in the upper reaches of the administration and  
14 Congress, will assess the information we provide and  
15 make decisions about which alternatives to pursue.

16           So we may make a recommendation that in the  
17 near term this, that or the other option or technology  
18 may be the best ones to pursue, but the decision makers  
19 will decide which ones.

20           I hope that helps clarify. Your points are  
21 so interesting I think it might be appropriate if we  
22 allow a follow on at this point, Andy.

23           MR. BUCHSBAUM: Thank you, General.

24           We certainly understand the -- sorry. I'm  
25 messing up your microphone. I'll just go like this.

1           Yes, we certainly understand the concerns  
2 that you point out. I'm glad to hear you say that it's  
3 not within the purview of the Corps to identify -- to  
4 consider cost on the options that you're looking at,  
5 because hydrological separation is not a single option.  
6 There are many different ways to do it, many different  
7 costs, many different benefits, and some are quite  
8 expensive and some aren't.

9           And I certainly would hope that because that  
10 option is the most obvious one, I mean, it certainly is  
11 an obvious one to completely solve the problem, that  
12 that would be the first one that's looked at and looked  
13 at quickly.

14           Particularly because hydrologic separation, a  
15 permanent barrier in the canals, if you will, if that's  
16 to be done, then it's going to take a long time to  
17 implement. And the longer it's spent studying, the  
18 longer delay in implementation. And it's one of those  
19 things where once breeding populations establish  
20 themselves in the lakes, then it doesn't matter if it  
21 took five years or 10 years. It's too late. And so  
22 then we're into an eradication or rapid response  
23 program. We know we can't eradicate. A rapid response  
24 program.

25           So that's why we keep on encouraging you to

1 prioritize. And you probably will hear from the Great  
2 Lakes Commission that the Great Lakes Commission and  
3 Great Lakes cities are doing a study, as you know, that  
4 will identify three potential locations for  
5 hydrological separation and not recommend any of them,  
6 but just as places where the costs and the benefits  
7 seem to be optimal.

8           And if you can use that study, take off from  
9 it and use that, not have to reinvent that wheel,  
10 actually do feasibility studies around those options  
11 right away, that could actually answer a lot of  
12 questions quickly and put Congress on a path to action.

13           Your study, as I understand it, will not  
14 automatically result in any action by Congress or by  
15 state legislatures, whatever. If hydrologic separation  
16 is pursued, there's going to have to be new laws passed  
17 by Congress, new laws passed by the State of Illinois  
18 and others. And that can't happen until the study is  
19 done.

20           So even if the study is -- makes an  
21 incredible recommendation that everybody agrees on  
22 hydrological separation, there's still going to be new  
23 laws that need to be passed. So because of that it's  
24 incredibly important that you prioritize and get that  
25 one done first.

1 Thank you.

2 UNIDENTIFIED SPEAKER: Hear, hear.

3 MR. BLUHM: Very good. Thank you.

4 GENERAL PEABODY: Thanks, Andy.

5 Just two quick comments. The first is we're  
6 not going to not consider cost, but we're not going to  
7 reject any alternatives simply on a cost basis. Now,  
8 that is -- normally cost is a consideration if it's a  
9 cost -- an alternative that's considered too expensive  
10 based on certain parameters and guidelines that were  
11 given, then normally we might not consider it, pursue  
12 it further. In this case, that's not going to happen.  
13 Secretary Darcy is committed to that.

14 With regard to the Great Lakes Commission  
15 study, we look forward to what they've produced. We  
16 have had conversations with them. We cannot advise  
17 them by law or direct them, but we have pointed out to  
18 them the policies and guidelines that we work under.  
19 And I know for a fact there's at least one former Corps  
20 employee that is on the study team. And so hopefully  
21 they'll be able to take that expertise and apply it.

22 What we don't know is what they're going to  
23 produce. And until we're able to evaluate  
24 independently, we just can't make a judgment on how  
25 much or what aspects of their study we'll be able to

1 use. But we're very hopeful that we'll be able to use  
2 a good piece of it.

3 So thanks. Appreciate your comments.

4 MR. BLUHM: Very good. Thank you, sir.

5 Okay. Our sixth speaker is Mr. Cragg. I see  
6 you're ready.

7 And following will be Melissa Damaschke.

8 And, Mr. Cragg, when you're ready, if I could  
9 have you state your name and a zip code, if you have  
10 one for us. We would appreciate it.

11 MR. CRAGG: 48302.

12 Good afternoon. My name is Kyle Cragg. I'm  
13 a fifth grade student at Notre Dame Marist Academy in  
14 Waterford, Michigan.

15 My school participates in the Catholic  
16 International Baccalaureate Program. As part of this  
17 program, I have chose this topic of exotic species in  
18 the Great Lakes.

19 After studying this topic for the past month,  
20 my group is worried that Asian carp will get into the  
21 Great Lakes and devastate fish population.

22 These carp can weigh up to a hundred pounds  
23 and jump up to 10 feet in the air. They will  
24 overpopulate the Great Lakes, and we may not be able to  
25 enjoy swimming, fishing and waterskiing. This would be



1 a terrible thing for the Great Lakes.

2 I hope to enjoy the fantastic Great Lakes for  
3 my lifetime, and also wish that future generations will  
4 not miss out on these fun, beautiful and amazing lakes.

5 My group is asking that your team of  
6 engineers consider building a new electric fence to  
7 stop these dangerous fish. One design that my group  
8 and I came up with is a tall barbed wire electric fence  
9 with a curved top. This would stop the fish from  
10 getting across or through the fence.

11 If the new fence fails, the best alternative  
12 is changing the flow of the Chicago River, which would  
13 help so we don't have to worry about this 30 to 40  
14 years from now.

15 We must stop these fish from getting into the  
16 Great Lakes at all cost. I hope your team can help  
17 stop these terrible destructive fish.

18 Thank you for letting a fifth grade student  
19 voice his opinion.

20 MR. BLUHM: Very good. Thank you.

21 GENERAL PEABODY: If we could get a copy of  
22 your design, we would like to take a look at it. And  
23 we'll give you some feedback on it I promise you that,  
24 okay?

25 Sir, if we could get a copy of your design,

1 we'll take a look at it. We'll give you some feedback  
2 on it. How is that? Sound good? You can give it to  
3 the folks outside afterwards or you can wait until  
4 we're done, and you can give it to me personally, okay?  
5 Thank you. Appreciate that.

6 MR. BLUHM: Okay. Very good. Thank you.

7 Next Ms. Damaschke. And then following our  
8 eighth speaker will be James McIntosh.

9 When you're ready, go ahead.

10 MS. DMASCHKE: Sure. Melissa Damaschke. It's  
11 D-a-m-a-s-c-h-k-e. The zip code 48201.

12 I am here to represent Sierra Club's 143,000  
13 members and supporters in Michigan. Sierra Club is  
14 part of the Healing Our Waters Great Lakes Coalition.  
15 So you'll notice that my remarks echo what Mr.

16 Buchsbaum with the National Wildlife Federation said.

17 Unfortunately the Great Lakes region is  
18 currently home to over 180 invasive species. I am  
19 speaking to you today because Sierra Club is concerned  
20 that our lakes may become home to yet another invasive  
21 species Asian carp unless the Army Corps of Engineers  
22 expedites its GLMRIS study to prevent their  
23 introduction.

24 Sierra Club has three concerns we wish to  
25 address at today's meeting. Number one, the Army Corps

1 of Engineers is moving forward on GLMRIS with the  
2 intent to reduce the risk of invasive species  
3 transferred between the Great Lakes and Mississippi  
4 River. If the Army Corps of Engineers doesn't commit  
5 to full prevention of invasive species, the study is  
6 set up to fail before it begins. The Corps must  
7 prevent rather than reduce the risk of invasive species  
8 movement between the Great Lakes and the Mississippi  
9 River.

10               Number two, the GLMIRIS study takes too long.  
11 The study's timeline and strategy must be structured so  
12 a solution is delivered prior to the establishment of  
13 breeding populations of Asian carp in the Chicago Area  
14 Waterway System. This means that the study needs to be  
15 completed in the next 12 months rather than mid 2015  
16 date.

17               Lastly, the public needs to continue to be  
18 engaged in this process. The Army Corps of Engineers  
19 should create an opportunity for regular discussion  
20 forums during which the public can interact with  
21 technical staff for detailed Q and A on project  
22 progress. This should be separate and in addition to  
23 the requirements of the NEPA process.

24               In conclusion, Sierra Club strongly urges the  
25 Army Corps of Engineers to expedite the GLMRIS study to

1 prevent the introduction of Asian carp while continuing  
2 to engage the public in this process. We have too much  
3 to lose in the Great Lakes region. People depend on the  
4 Great Lakes for not only drinking water, but for jobs  
5 and to maintain their quality of life. An invasion of  
6 Asian carp or another invasive species is not  
7 acceptable, especially when we have the opportunity to  
8 prevent it.

9 Thank you.

10 And since I do have some left over time, I  
11 would like to take the opportunity to ask a quick  
12 question, if I may.

13 MR. BLUHM: Go ahead.

14 MS. DAMASCHKE: Can you please elaborate on  
15 the data collection that in the study you say that  
16 you're going to be doing for the next two years?

17 MR. WETHINGTON: Absolutely. Thank you for  
18 your question.

19 What we'll be doing is looking at all realm  
20 of potential uses of the waterways and data associated  
21 with potential impacts of aquatic nuisance species  
22 control technologies that may be implemented. So this  
23 data would include navigation data, such as, commercial  
24 cargo navigation, recreation, commercial passenger  
25 navigation. We're looking at evaluating the fisheries

1 in both the Great Lakes and Mississippi River Basins,  
2 both the commercial value, as well as recreational  
3 value of fisheries.

4 We're looking at, also -- we have to look at  
5 the flood risk management issues that I spoke to  
6 earlier in the Chicagoland area and what would be the  
7 economic associated with the potential health and human  
8 life safety with regard to implementing an aquatic  
9 nuisance species control that would have a negative  
10 impact to those things.

11 So that along with habitat assessments,  
12 habitat mapping, determining exactly where all these  
13 habitats lie and trying to if not quantify them  
14 economically but at least establish their intrinsic  
15 value. Those are some of the data collection that we  
16 will be pursuing.

17 MS. DAMASCHKE: Thank you.

18 MR. BLUHM: Very good. Thank you.

19 Our eighth speaker today is Mr. McIntosh.

20 And that finishes the folks that had  
21 preregistered. We'll move to the yellow cards now.

22 First on that list will be Mr. Matt Doss.

23 When you're ready, Mr. McIntosh.

24 MR. MCINTOSH: Hi. My name is James  
25 McIntosh. Zip code is 48105.

1           A minute ago or so we listened to a couple of  
2 young people talk about their experience with the Great  
3 Lakes and why they're concerned about it. I guess I  
4 would like to talk about my youth on the Great Lakes.

5           I grew up in Grand Haven, Michigan in the  
6 '50s. And I remember in grade school hearing about the  
7 greatness of what the Great Lakes Seaway would do to  
8 the Great Lakes. And I remember taking a trip with my  
9 dad and my family, and we went along the Great Lakes  
10 Seaway essentially, and we looked at all the canals  
11 that ended up connecting the Great Lakes in my hometown  
12 of Grand Haven to the Atlantic Ocean.

13           But it wasn't until I was a teenager, because  
14 what I did as a teenager was walk the sand dunes and  
15 the lakeshore south of Grand Haven. I mean, that's  
16 where I lived for three months a year.

17           And then suddenly one summer you couldn't go  
18 to the beach anymore because the Great Lakes or at  
19 least Grand Haven north and south were covered with  
20 dead alewife. And, you know, it was -- you know, it  
21 stunk. But the worst part of it was when you stepped  
22 on them. It made this really funny popping sound that  
23 I'll never forget. And we didn't learn with the  
24 alewife. We didn't learn with the next thing and the  
25 next thing. And, I mean, we've nearly destroyed the

1 Great Lakes as it is.

2           The Asian carp we have to stop it. It isn't  
3 prevention. It isn't reduction. It is stop it. And  
4 from somebody that lived on the Great Lakes most of his  
5 life if that means closing Chicago, that's fine, do it.

6           One comment that I've heard in the discourse  
7 you just mentioned about this issue of data collection.  
8 Much of the data collection you're talking about doing  
9 between now and 2015 sort of seems tangential to the  
10 issue of how do we stop Asian carp from getting into  
11 Lake Michigan.

12           And then I have a couple of questions, if I  
13 might. Is Chicago mitigating its stormwater and  
14 wastewater treatment problems? Are they going to solve  
15 their problem so they aren't essentially the Achilles  
16 heel of the Great Lakes? If the carp establish  
17 themselves in the Great Lakes, in Lake Michigan first,  
18 what is it going to cost to get them out of the Great  
19 Lakes and how long will that study take? Who's going  
20 to pay for it? What will it take to correct the water  
21 flow changes that have been made in the past in the  
22 Chicago area so that they flow naturally? Thank you.

23           MR. BLUHM: Okay. Thank you.

24           GENERAL PEABODY: Okay. Sir, I'm not sure I  
25 captured all your questions.

1               John, do you want to take any of these?

2               MR. GOSS: They're all large. Go ahead and  
3 take them.

4               GENERAL PEABODY: Okay. Then I'll ask you to  
5 -- John, you or others to answer. Mr. McIntosh, if we  
6 don't answer all your questions, please let us know,  
7 because we want to answer your questions.

8               First on the data collection. In order to  
9 recommend alternatives, we have to have by law an  
10 understanding of the cost, the benefits and the impacts  
11 of the recommended alternatives. And that has to also  
12 be vetted in public forums like the one we're having  
13 here today.

14              So, for example, we're going to do surveys of  
15 the fisheries. We're going to do surveys of the  
16 navigation uses. We're going to do surveys of the  
17 water flows, of the water quality, how it's used, all  
18 the impacts. We're going to do studies of potential  
19 impacts of Asian carp on the Great Lakes. That's going  
20 to be an accelerated part of it, but we're at least a  
21 year away from that information. USGS has taken that  
22 on, so on and so on.

23              So that's why all the data that we've talked  
24 about has to be produced, because we need to have a  
25 scientifically based understanding of what the impacts



1 are to the alternatives. It's a precondition to go  
2 forward with the study.

3 In terms of Chicago stormwater, frankly I'm  
4 not in a good position to answer that, because that's  
5 an authority that's outside the purview of the Army  
6 Corps of Engineers. Metropolitan Water Reclamation  
7 District has that responsibility.

8 But you heard Dave earlier talk about the  
9 enormous quantities of discharge that goes into that  
10 waterway. So if you're not going to use that waterway,  
11 then an alternative mechanism has to be developed or  
12 you depopulate Chicago. That's literally what we're  
13 talking about. Because what Chicago -- the large  
14 portions of the residential area, in particular  
15 Chicago, sits on what used to be a large, marshy,  
16 swampy area, much like much of the United States. I  
17 mean, a lot of our natural wetlands no longer exist  
18 because we inhabited them. And that -- depopulating  
19 Chicago has enormous obviously economic consequences  
20 and would be extremely costly.

21 I'm not sure what you mean about correcting  
22 the water flow, but I think what you're talking about  
23 is restoring it to its pre-civilized condition. And,  
24 again, that goes back to what I just talked about.

25 Did we get to answer the fundamental

1 questions that you had?

2 MR. MCINTOSH: Well, one question that you  
3 didn't address is if they establish themselves, if the  
4 carp establish themselves in Lake Michigan, what's it  
5 going to take to get rid of them and who's going to pay  
6 for it?

7 GENERAL PEABODY: That's a great question.

8 We're not there. And that's not one of the  
9 things we're going to study in terms of getting rid of  
10 them. We are going to study the impacts if they were  
11 to be established so that we have an understanding of  
12 the costs and benefits of preventing them from getting  
13 in there versus the costs and benefits of various  
14 alternatives to include lock closure.

15 MR. MCINTOSH: But, you know, when you say  
16 that, it -- you know, you read these places where  
17 they've gone in and killed small lakes to save, you  
18 know, endangered species or for other purposes. And if  
19 you look at the cost of doing that for just a little  
20 bitty body of water that isn't used for drinking water,  
21 the cost is enormous. If you project that onto Lake  
22 Michigan, you can depopulate Chicago for that cost.

23 GENERAL PEABODY: Okay.

24 MR. MCINTOSH: I mean, let's get -- that is  
25 the scale I think we're talking about. Unless you're

1 going to give up on Lake Michigan.

2 MR. GOSS: You are proposing an option that  
3 is sort of like Daniel Burnham's challenge, I guess,  
4 "Make no small plans." I do not know that we're going  
5 to have that as one of the cost figures, but certainly  
6 they're going to put cost and benefit numbers with each  
7 of these options. I don't think depopulating Lake  
8 Michigan will be one of those. But --

9 MR. MCINTOSH: But will cleaning it be one of  
10 them?

11 MR. GOSS: There are risk assessments being  
12 done by several different groups, and they're going to  
13 include what is the impact. So if they get in the  
14 lake, that will be looked at in these risk assessments.  
15 The Canadian government has initiated one with the  
16 Great Lakes Fisheries Commission. That's probably the  
17 most significant. It's going to be the most  
18 comprehensive. And they're going to have their  
19 analysis by the end of this year. So I think we should  
20 look at that next, because they're the experts on fish  
21 in the Great Lakes. That's going to be the best thing  
22 to look at first. They're going to tell us what to  
23 expect. We can't sit here and give you that answer,  
24 sir.

25 You had one stormwater question, which we can

1 answer. Chicago is not treating their stormwater. So  
2 that would be another significant investment as part of  
3 the scenario if the decision was made to put it into  
4 Lake Michigan rather than send it to the Mississippi,  
5 which is where it flows now. It would be a significant  
6 investment.

7 GENERAL PEABODY: Thanks, John.

8 Sir, a couple of points. I think one of the  
9 premises that you have is that the destruction to Lake  
10 Michigan is going to be so massive from Asian carp that  
11 virtually any alternative is appropriate. And that  
12 premise is something we actually don't know the answer  
13 to. And that's why we've asked the USGS to do a study  
14 to tell us what the likely impacts are.

15 Now, how much precision they can get to and  
16 how much confidence they can give us in that answer is  
17 currently unknown, but we need scientists to study that  
18 and understand that. We don't have that study today.  
19 We simply have suppositions that may or may not be  
20 accurate.

21 The other thing I would point to is I'm in  
22 uniform. I'm very good at two things. I'm very good  
23 at taking orders and following those orders. And the  
24 Corps of Engineers has certain authorities and  
25 responsibilities, and I color inside those lines. I

1 don't color outside those lines. I may have interests  
2 outside of those lines that affect what my authorities  
3 and responsibilities are, but I stay within those  
4 authorities and responsibilities.

5           The study we've been given tells us to study  
6 a range of options and technologies that will prevent  
7 the migration or the movement of aquatic invasive  
8 species between the two basins. And that's what we're  
9 going to study.

10           If you ask who's going to take on the things  
11 that you're concerned with, there would need to be laws  
12 propagated, and they would need to be pointed to  
13 agencies that have the capabilities to take on those  
14 kinds of issues. The Corps of Engineers is not an  
15 agency that has the capabilities that could say this is  
16 what we need to do to deal with Asian carp once they're  
17 populated in Lake Michigan. That would be some other  
18 agency, but it's definitely not us.

19           Thanks for your questions, sir. We  
20 appreciate it.

21           MR. BLUHM: Very good. Thank you, sir.

22           Okay. That gets us through the first phase  
23 of our comments, the folks that had preregistered on  
24 the Web site before getting here today.

25           We will now move to anybody that has a yellow

1 note card that's been assigned that. I did note in my  
2 opening remarks that we were going to use one or the  
3 other microphone. At this point in time depending on  
4 where you're sitting or which microphone is more  
5 comfortable for you, you can go to either microphone,  
6 whatever is the easiest for you to access.

7 So with that said, Mr. Doss, I believe, is  
8 waiting for us. Following number two on this will be  
9 [REDACTED]

10 So when you're ready, go ahead, sir.

11 MR. DOSS: Thank you.

12 Matt Doss. Last name is spelled D-o-s-s. I'm  
13 policy director with the Great Lakes Commission. And my  
14 zip code is 48104.

15 Thank you for coming here today. Thank you,  
16 General Peabody, Mr. Goss, for the series of meetings  
17 you're doing. This is an outstanding outreach that  
18 you're reaching out to the eight-state region  
19 recognizing that this is a problem that potentially  
20 affects the entire region and not just the Chicago  
21 area.

22 Also, General Peabody, let me just thank you  
23 and your comrades in uniform for your service both here  
24 and abroad.

25 The Great Lakes Commission is an intrastate

1 agency that was formed in 1955 to work on behalf of the  
2 eight states that border on the Great Lakes issues of  
3 common interest. We support the ongoing conservation  
4 used and sound management of the Great Lakes. So we  
5 like to think that we're looking out not only for the  
6 environment of the Great Lakes, but for the economic  
7 and recreational uses of it.

8           So I'm pleased to be here again on behalf of  
9 the Great Lakes states. We are glad that the Corps is  
10 pursuing this study. We're very excited about it.  
11 We're particularly pleased that you're looking at all  
12 potential pathway of introduction. We should all  
13 remember that the Chicago Area Waterway System is just  
14 one of several potential vectors through which Asian  
15 carp and other aquatic invasive species could get into  
16 the Great Lakes.

17           And it's important, of course, to recognize  
18 that while many of us here today are most concerned at  
19 the present time about Asian carp, there are other  
20 aquatic invasive species that may be coming our way. In  
21 addition, there are aquatic invasive species in the  
22 Great Lakes that we don't want to get into other parts  
23 of the country.

24           And I would just remind folks that we believe  
25 the Zebra mussels came from the Great Lakes and have

1 eventually gotten into other waterways in our country.  
2 So we are both a receiver of aquatic invasive species,  
3 as well as a vector for them.

4           So, again, we applaud you for the work you're  
5 doing on the GLMRIS study. We also applaud you for  
6 taking a special look at the Chicago Area Waterway  
7 System. As people have noted, that is without doubt  
8 the largest single threat right now in terms of the  
9 potential introduction of Asian carp.

10           We have seen Asian carp coming our way for  
11 more than a decade. We have not been ignorant of that.  
12 We know that they've been headed our way. So we feel  
13 that we must not be the generation that let's them get  
14 into the Great Lakes.

15           Our concern is at the Great Lakes Commission  
16 we have gone on record unanimously supporting  
17 ecological separation of the Great Lakes from the  
18 Mississippi River Basin. All eight of our states have  
19 agreed to that. That was unanimous, including  
20 Illinois. So it's a very important policy position  
21 that we have taken that the best permanent long-term  
22 solution to protecting the Great Lakes, as well as  
23 other parts of the country from aquatic invasive  
24 species is to ecologically separate the two watersheds.

25           We recognize the importance of the electric



1 barrier system. We feel that and other control  
2 measures are critical in the near term, but in the long  
3 term we feel that the best permanent solution is to  
4 permanently ecologically separate those two water  
5 bodies. So we appreciate and applaud your focus on the  
6 Chicago Area Waterway System.

7 Our primary concern, we would echo what other  
8 folks have said, is as much as possible to accelerate  
9 your focus and your work on that portion of the study.  
10 We believe that given the current policy debate both  
11 within the region and in Washington, there's an urgent  
12 need for more clarity and solutions and ideas for  
13 achieving ecological separation. So we urge you to  
14 accelerate and expedite your work on that particular  
15 issue.

16 The Great Lakes Commission together with the  
17 Great Lakes and St. Lawrence Cities Initiative have  
18 initiated a study to identify and evaluate options for  
19 achieving hydrological separation. That study is  
20 underway now. We're pleased to be working with the  
21 Corps of Engineers and many other entities. We  
22 appreciate your cooperation and support. We will have  
23 results from this study by the end of this calendar  
24 year, and we'll be rolling those out in January of next  
25 year, again, looking at identifying a handful of

1 options for achieving ecological separation, but also  
2 evaluating their impacts on recreational and commercial  
3 navigation, wastewater management, the ecology of the  
4 Chicago Area Waterway System and Lake Michigan, as well  
5 as stormwater management.

6           And we recognize that the Chicago Area  
7 Waterway System is a very complex system that was  
8 developed over the last century and provides a  
9 multitude of beneficial uses for the greater Chicago  
10 area. And so our position is that we want to  
11 ecologically separate the two water bodies, but  
12 maintain or enhance those other beneficial uses.

13           We would urge you as much as possible to  
14 collaborate with us, and also to use the data and  
15 modeling and other material and information that's  
16 being generated by our study to help compliment and  
17 support your study. We don't want to take the place of  
18 the Corps of Engineers in the GLMRIS study. We want to  
19 compliment and support what you're doing.

20           And, frankly, we've heard some potentially  
21 conflicting responses. We've been told that, "Yes, we  
22 will look at your study. We will try to use that." But  
23 then, on the other hand, we've heard from other people  
24 that perhaps you're going to have to collect your own  
25 data and do your own modeling. So we would urge you

1 wherever possible to use our resources to help us make  
2 sure that they are done in a way that you can use them.

3 As you mentioned, we have a high level study  
4 team that's working with us that includes a number of  
5 former staffers from the Corps of Engineers and others  
6 who are familiar with the Corps process. So we hope  
7 that our study is something that you can and will use  
8 to help you expedite your work.

9 So that's all I have to say on behalf of the  
10 Great Lakes Commission. Again, thank you for coming  
11 here. The Great Lakes Commission is based in Ann  
12 Arbor. So it was very convenient for us to come out  
13 here today. But we do represent and speak on behalf of  
14 all the Great Lakes states, including Illinois, which,  
15 as I said, is together with the other states in  
16 supporting ecological separation as the best long-term  
17 solution.

18 Thank you.

19 MR. BLUHM: Very good. Thank you.

20 GENERAL PEABODY: Thanks. Those are great  
21 comments. And we appreciate your support of many of  
22 our activities.

23 Just a quick response on our ability to use  
24 the study. We can't take a position on outside  
25 agencies' efforts, especially nonfederal agencies. But

1 we certainly hope and we certainly intend -- we're  
2 definitely going to look at your study. Forgive me. I  
3 lost track of where you went. But we're going to  
4 definitely look at your study, no question about it.  
5 We're very interested in what you're doing. We will to  
6 the extent that it's possible use the data and the  
7 recommendations that you provide to inform our study.  
8 And we're hopeful that what you're doing will help us  
9 both move forward in quality and in time the ability  
10 that we have to do our study.

11 So we look forward to what you're doing. And  
12 we appreciate your effort. Yours is the kind of effort  
13 that can really help the Corps of Engineers and all of  
14 our federal partners move forward on a quicker pace to  
15 do what we are required to do on this study. So  
16 thanks.

17 MR. BLUHM: Very good. Thank you, sir.

18 All right. Number two on the yellow list [REDACTED]  
19 [REDACTED]. And then following number three will be Trilby  
20 Becker.

21 [REDACTED]: Hi. My name is [REDACTED]. My  
22 zip code is [REDACTED].

23 This is the second presentation that I've  
24 attended put on by your organization. And I would like  
25 to say that I know you all are working hard on this

1 thing, and your materials are excellent, and you're  
2 trying to do a good job.

3 I just got this one little pamphlet here, and  
4 it just scares the heck out of me. "Study timeline:  
5 With sufficient funds, a final reclamation plan for  
6 Focus I area could be completed by 2015."

7 And then additional congressional  
8 authorization and funding is required to do what you  
9 guys come up with. So we're talking about 2015 to get  
10 this thing done, and then God forbid we've got to send  
11 it to Congress. And what gets done there? Nothing.

12 My suggestion is this, okay? I've been  
13 involved with fish shock studies before in rivers. I've  
14 stood in the river myself while the shocking is going  
15 on, okay, and netted the fish as they come up. Now, the  
16 shocking that we were doing, okay, was not killing the  
17 fish. It was just stunning them, okay?

18 So why don't we just send someone down to the  
19 river, this cesspool, okay, the Chicago River center,  
20 turn up the dial a little bit, okay, and get these fish  
21 coming up? And we could hire a lot of people to pick  
22 up the dead fish. There's a lot of people out of work,  
23 okay? And all we've got to do is pick up the fish,  
24 okay?

25 It's a well-known fact, I think you gentlemen

1 will agree, that there's three or four areas where  
2 these fish could be coming up, okay? There are these  
3 alternate areas that you're suggesting which might  
4 certainly be possibilities.

5 But let's send somebody down there, turn up  
6 the dial, and let's kill these fish. It's as simple as  
7 that.

8 I mean, we're talking five years to get this  
9 study, and then nothing is going to happen after that.  
10 In the meantime who knows what's going to get into the  
11 lake.

12 Thank you.

13 MR. BLUHM: Thank you.

14 MR. GOSS: The discussion of what interim  
15 things are the right things to do. There are  
16 discussions going on about potential eradication of  
17 fish in the Chicago Area Waterway. There are  
18 organizations that are not totally supportive of that.  
19 But certainly I know that I have challenged several  
20 groups to give us their recommendations on that. I  
21 appreciate you supporting that, but --

22 [REDACTED]: Who's not in support of shocking  
23 the fish? What good are they? You can't eat them.  
24 You're not going to eat anything that's in that river.  
25 So what's the big deal? Just kill them.

1 MR. GOSS: Thank you for your comments, and I  
2 will use it.

3 GENERAL PEABODY: Thank you, sir.

4 MR. BLUHM: Okay. Very good. Thank you.

5 All right. Number three Ms. Becker. And  
6 then following will be Gillian Woodrooffe.

7 Go ahead when you're set.

8 MS. BECKER: Hello. My name is Trilby  
9 Becker. I'm with the National Wildlife Federation in  
10 Ann Arbor. My zip code is 48103.

11 And I had a question about the other  
12 pathways. In many cases the other potential pathways  
13 identified around the Great Lakes Basin for aquatic  
14 invasive species to enter are blocked on one or both  
15 sides by barriers, manmade barriers. And I was  
16 wondering if that wasn't an opportunity that should be  
17 examined as to potential ways to block invasive species  
18 from entering the pathway of concern, the area of  
19 concern.

20 Because, as you mentioned earlier, the Great  
21 Lakes Basin is very flat, and it's very difficult to  
22 predict which way water is going to flow and which way  
23 species are going to move. And once they're in these  
24 areas, perhaps the tamarack lowlands might be a good  
25 example in Minnesota, the cat is really out of the bag

1 at that point. It's kind of hard to find out where  
2 they're going to be and contain them. And so it might  
3 be a better opportunity to prevent them from ever  
4 arriving in these areas to begin with.

5 But, also, as you mentioned before, the Corps  
6 of Engineers doesn't always have the same flexibility  
7 to act quickly. Because anytime you need to -- anytime  
8 you do anything, you need to ask Congress and you need  
9 to get money from Congress and their need to be NEPA  
10 scoping meetings and all these other things. And in  
11 many cases these barriers are controlled by the Corps.

12 So I wonder if you've, A, thought about  
13 the potential for preventing AIS from entering the  
14 Great Lakes by looking downriver away from where the  
15 potential point of entry is and if you've considered  
16 what some ways of overcoming this problem of having to  
17 go through this long protracted process in order to  
18 obtain permission and money in order to modify those  
19 barriers in some way that might prevent the passage of  
20 AIS.

21 And, also, these barriers are often -- well,  
22 let me say AIS there's many different kinds of AIS as  
23 we know, and there's many other kinds of AIS that's  
24 going to come up along the way as time moves on. And  
25 it's very difficult to create a barrier that



1 anticipates all of those AIS.

2 But, anyway, I was just wondering what your  
3 thoughts are around barrier modification considering  
4 all of these points that I've mentioned. Thank you so  
5 much.

6 MR. BLUHM: Thank you.

7 MR. SAFFRAN: Very good point, Trilby.

8 During the preliminary risk characterization,  
9 one of the most difficult things that we had to do was  
10 to try to evaluate what level of impediment that the  
11 in-stream obstructions provide. And we looked at a lot  
12 of waterways, lots of dams. We didn't have enough time  
13 to really do a good thorough evaluation of the relative  
14 obstruction that each of these dams pose. And there's  
15 -- again, there's a large inventory of dams. We map  
16 where each of them exist along the tributary streams  
17 that lead up to the point across the Basin Divide.

18 We haven't really gotten to the point on the  
19 other pathways yet, though, of looking at the potential  
20 for enhancing those obstructions as means to prevent  
21 the migration. We just haven't gotten to that point  
22 yet, because we're not really sure of what the risks  
23 are that are posed by those things.

24 GENERAL PEABODY: Great point, great  
25 question.

1 I would describe the 18 points and actually  
2 ultimately we're going to look at all 36, but those as  
3 the start point to work back downstream both toward the  
4 Great Lakes and toward the Mississippi River watershed  
5 to do exactly what you identified, find places on the  
6 pathway to the potential transition point that allows  
7 us to apply control mechanisms to prevent aquatic  
8 invasive species from migrating to get to the  
9 transition point.

10 Because you're exactly right, once they're at  
11 the transition point, the Huns are at the door, the  
12 Huns are at the gate, and it could be too late. We want  
13 to back them away from that point as much as possible.  
14 So that's definitely the approach we're going to take.

15 On the long process, I mean, democracy is  
16 messy, and the Corps is not a self-authorizing or self-  
17 funding agency, and we do what we're told.

18 Having said that, Congress did two things in  
19 2009 that have been decisive for our ability as a  
20 federal team to take proactive measures on this urgent  
21 situation. The first is they gave us an authority --  
22 gave the Secretary of the Army Ms. Darcy authority  
23 called Section 126, which basically says, "Ms. Darcy,  
24 you can take urgent action on an expedited basis to  
25 execute things that you think are appropriate to stop

1 Asian carp from migrating through the Chicago Area  
2 Waterway Systems into Lake Michigan."

3 And we have used that authority to execute  
4 several of the things that we talked about. The bypass  
5 barrier is one. The Des Plaines River is the best  
6 example.

7 The second thing they did is they gave the  
8 Environmental Protection Agency under the Great Lakes  
9 Restoration Initiative money that has turned out to be  
10 very effective as a source to reprogram to take some of  
11 these urgent actions. So Mr. Goss talked about the  
12 fence at Eagle Marsh, and that was funded with money  
13 from GLRI.

14 Now, without those two capabilities and  
15 similar capabilities going forward, it's very hard for  
16 us to act on a near realtime basis to our evolving  
17 understanding of the situation and urgent actions that  
18 we believe are appropriate.

19 So Congress is considering what they're going  
20 to do about that going forward. That's their authority  
21 to decide.

22 And, John, any further comments?

23 MR. GOSS: I just want to add one other  
24 point. I was the Indiana DNR director, and certainly  
25 the states have jurisdiction in their rivers. If there

1 are Corps structures, the Corps would have jurisdiction  
2 at their structures. But that's why Illinois is taking  
3 the lead and is doing an excellent job I think coming  
4 up with a plan for pushing the carp back in the  
5 Illinois River. And hopefully that same commitment is  
6 going to come from the other states.

7 Minnesota has voiced a number of suggestions  
8 already. I think there were some things publicly this  
9 past week about choosing other points farther down the  
10 river system to stop Asian carp before they get further  
11 into their waters.

12 So the charge right now is to use the  
13 resources for keeping them out of the Great Lakes. A  
14 lot of these projects are funded with Great Lakes  
15 Restoration funds. We can't without talking to all the  
16 people involved say we're going to take that money and  
17 go down the rivers. So we may have to have another  
18 source.

19 But there's certainly the interest and the  
20 commitment, I think, from the Natural Resources  
21 Departments to come up with a plan something like the  
22 strategy we've developed for stopping carp from getting  
23 into the lakes, to stop the carp from advancing any  
24 farther, and to dramatically or possibly in some areas  
25 completely eradicate Asian carp so that we can get the

1 natural balance of our fish populations back in our  
2 rivers. So that's going to take another significant  
3 effort.

4 But thanks for bringing it up.

5 MR. BLUHM: Excellent. Thank you.

6 Okay. Number four on our list Ms.

7 Woodrooffe. And then following number five Richard  
8 Reynolds.

9 And when you're ready, go ahead.

10 MS. WOODROOFFE: Hi. My name is Gillian  
11 Woodrooffe. And I could give you my postal code. POP  
12 1A0. And I'm giving you that, although I do live in  
13 Ann Arbor 48103.

14 It's just that I'm representing McGregor Bay  
15 Association. This is a small cottage owners'  
16 association in McGregor Bay, which is probably the  
17 northern most bay in Georgian Bay which is on the  
18 Ontario side of Lake Huron. And as you know, if Asian  
19 carp does get into the Great Lakes, Canadians are going  
20 to be affected by that as well.

21 But I'm here speaking on behalf of our  
22 cottage association of which 70 percent are actually  
23 Americans. So we understand that this is an American  
24 problem, but the Canadians are affected by it.

25 And I had prepared a statement, but it's

1 basically reiterating what a lot of people have said  
2 already.

3           What I'm finding a little bit troublesome is  
4 the distance between what's going on here and the  
5 Canadian authorities. I feel that there isn't enough  
6 recognition that this -- that we live in an  
7 international watershed that most of Canada's  
8 population, and I would go as far to say a great  
9 percentage of American population, do actually live  
10 around the Great Lakes.

11           And what I am seeing and listening to is  
12 rhetoric about the problems in the Chicago area  
13 trumping by a very significant amount the other  
14 concerns of everybody else in the Great Lakes.

15           I did have a couple of questions on behalf of  
16 another cottager. So I think you've answered one of  
17 them. But I'm just wondering if there's -- and I don't  
18 think you do have the answers to this. How long it  
19 will take the fish to migrate throughout the Great  
20 Lakes? That's a very grave concern of ours.

21           I might add that McGregor Bay is probably one  
22 of the few areas in Lake Georgian Bay and Lake Huron in  
23 general that is fairly affected by human development.  
24 And unfortunately it is also impacted by invasive  
25 species. I've seen common carp or grass carp in the

1 marsh by our cottage in the spring spawning, and it is  
2 doing damage to that area as well.

3 So, anyway, that's one question.

4 Yeah. No, that's basically it. I mean, the  
5 other thing is what I said earlier about taking a city  
6 of enormous consequence, but nevertheless it seems to  
7 have more political clout than the rest of us.

8 Thank you.

9 MR. BLUHM: Very good. Thank you.

10 MR. GOSS: I'll just comment quickly on the  
11 Canadian government's involvement. Their Fisheries and  
12 Oceans Department in Ontario have initiated the type of  
13 analysis that you were asking about as far as what they  
14 think the areas that would be impacted and how long it  
15 might take. So they're looking at that this year. And  
16 so there will be some updated evaluations.

17 Also just to emphasize how serious the  
18 Canadian government is, this next week they're going to  
19 be doing a simulation for an Asian carp invasion. So  
20 they are actually studying what would their responses  
21 be if something would happen. They're going to go  
22 through a series of exercises. And they're taking it  
23 very seriously.

24 And that's connected with the Great Lakes  
25 Fishery Commission with all the states, also, on our

1 side of that risk assessment. So we'll be benefiting  
2 from all the work that they're doing. It's going to be  
3 very good.

4 GENERAL PEABODY: And just to add to that,  
5 anything that the Canadian government provides that can  
6 be useful for our study we will use.

7 Thank you, ma'am.

8 MR. BLUHM: Thank you.

9 Okay. We're on number five now Mr. Reynolds.  
10 And then following him number six will be Gale Govaere.

11 When you're ready, go ahead, sir.

12 MR. REYNOLDS: Hi. My name is Richard  
13 Reynolds. My zip code is 48104.

14 I would like to start by saying that, you  
15 know, what I've witnessed so far is a tremendous void  
16 between where I perceive you folks to be versus where  
17 the audience seems to be. There's a disconnect and a  
18 frustration at least on my part certainly with regard  
19 to that void.

20 I would like to thank you for the opportunity  
21 to come and share my thoughts with you today. I'm  
22 representing the Great Lakes ecosystem. It's not some  
23 organization and I'm not being paid for being here.

24 There's nowhere on this earth which is  
25 outside of humanity's influence. Global warming, ocean



1 acidification, depletion of potential and potential  
2 collapse of ocean fisheries, melting of the polar ice  
3 caps. Humanity has an incredibly heavy footprint on  
4 this earth.

5           This year world population will reach 7  
6 billion people. That number in and of itself is not  
7 necessarily a problem. The problem is with our  
8 attitude concerning the earth's resources and our  
9 resulting behavior.

10           I've heard repeatedly cost benefit analysis  
11 with regard to these Asian carp. Thirteen months ago I  
12 attended a meeting concerning Asian carp at this hotel.  
13 A number of people in attendance were from Chicago.  
14 They came to plea not for the Great Lakes, but for a  
15 handful of jobs in the pleasure boat industry and barge  
16 industry. A plea totally based on economics.

17           Herein lies the problem. Humanity values  
18 short-term economics ignoring long-term costs as if  
19 they don't exist. Only when we place economic value on  
20 what we have, what currently exists, the natural state  
21 of our environment, will our decisions reflect true  
22 economic costs.

23           I had a career for 25 years, worked for a big  
24 company. In all work there are those that do a job  
25 because it pays and those that work because they're

1 passionate about the task at hand. Getting a job well  
2 done was easy if I could find the right people that  
3 were passionate about the task at hand. I hope there  
4 are passionate ones among you and those behind you in  
5 your organizations, but fear this is not the case.  
6 Conducting a five-year study is devoid of passion for  
7 the task, as well as the logic regarding the eventual  
8 outcome.

9           There's a military term that I think aptly  
10 describes where we are today. It's called SNAFU. When  
11 I was a kid, I heard SNAFU. I never knew what it  
12 meant. And rather than describe what it means, those  
13 in uniform today maybe can share it with others if they  
14 don't know.

15           There's another military term that I think  
16 describes where we'll be in 2015 if we continue down  
17 the path we're on. That's FUBAR.

18           Preventing these fish from taking over the  
19 Great Lakes and tributary rivers is our responsibility.

20           Last fall at a meeting in East Lansing on  
21 this subject, the most Honorable Derek Bailey of the  
22 Chippewa Tribes of Michigan shared with us a Native  
23 American concept called seven generations. It has to  
24 do with looking forward seven generations and looking  
25 back seven generations and considering the impact of

1 what we do on those that have preceded us and those  
2 that will follow us.

3           So which will it be? Another heavy footprint  
4 of humanity or corrective action we can all be proud of  
5 today and for generations forward and back.

6           I can't just -- I can't explain to you how  
7 disappointed I am at where we are. I don't know the  
8 gentleman's name, but number two on the yellow side  
9 said let's take action today to do things. I can't  
10 imagine that we're not doing that. And I'll pay the  
11 first dollar to put electricity through the stream to  
12 stop these fish.

13           One question I do have in conclusion is we  
14 have three barriers right now, as I understand, three  
15 electronic barriers. That suggests that these fish  
16 will get through an electronic barrier. And I was kind  
17 of a numbers guy in my career. And if I assume that  
18 they get through the first barrier, then the  
19 probability of that fish going forward is 50 percent.  
20 And if the other 50 percent turn around and go back,  
21 that's great. But half of them are going to go through  
22 the next barrier and half of them are going to go  
23 through the next barrier. So 25 percent make it all  
24 the way. How many fish are going to make it through  
25 these barriers over the next five years?

1           Anyway, that concludes my comments. Thank  
2 you.

3           GENERAL PEABODY: Thank you, sir.

4           I have a politically correct answer for the  
5 first question regarding SNAFU. Situation normal all  
6 fouled up. And FUBAR is fouled up beyond all  
7 recognition. If you would like the unpolitically  
8 correct answer, I suggest you watch the film --

9           MR. REYNOLDS: Use your imagination.

10          GENERAL PEABODY: Yes.

11          Or you can switch some of those words around,  
12 and if you get the first letter right, you can figure  
13 out where to take that.

14          The two points you make take action today. I  
15 just want to go back to the preamble point that I made  
16 at the beginning of the presentation, which is, we have  
17 taken aggressive action. It's been related to the  
18 Chicago Area Waterway System primarily, but also on the  
19 other pathways spreading to Eagle Marsh. We're very  
20 confident that the actions that we're taking in the  
21 near term are effective in the Chicago Area Waterway  
22 System.

23          Now, let me go to the last question you asked  
24 about the fish barrier and explain that. The reason we  
25 have three barriers is, first of all, we built what we

1 called a demonstration barrier. That was barrier one.  
2 The demonstration barrier took what was existing  
3 technology and existing parameters and applied them in  
4 the Chicago Sanitary and Ship Canal to assess whether  
5 they were working.

6 The telemetry tests we did we put little  
7 electronic tags, radio tags, in fish and then monitors  
8 along the side of the canal to see if fish pass through  
9 the system. Those telemetry tests indicated to us  
10 that, in fact, fish were not crossing through the  
11 barrier system.

12 Subsequently we got this laboratory research  
13 that I already talked about that said one volt per inch  
14 may not be enough. It may take up to four volts per  
15 inch. And our research to try to validate that  
16 information indicated that, in fact, two volts per inch  
17 is what's effective. And that's what we're applying  
18 today. And there's a lot of details to it that I could  
19 add on, but it gets complicated and confusing. So I'm  
20 kind of dummying it down.

21 Why do we have three barriers? Well, the  
22 first barrier was a demonstration, it was a pilot to  
23 see if it would work. The short answer was yes, but  
24 the caveat to it was you need to change some of the  
25 parameters.

1           The second barrier changed the parameters to  
2 increase its effectiveness.

3           The third barrier, which we just completed,  
4 provides redundancy. So when you take one barrier down  
5 for maintenance, you have the other one that's  
6 operating and fish can't get through. But the  
7 implication that we have multiple barriers because some  
8 fish may pass through one barrier to go to the next is  
9 not the case at all.

10           And as we continue our research to validate  
11 the operating parameters, if we get indications that we  
12 need to change the operating parameters, we intend to  
13 do so.

14           I hope that answers your question. We  
15 appreciate your concern, as we share it. Thanks, sir.

16           MR. BLUHM: Very good. Thank you.

17           Okay. We're on number six Gale Govaere.  
18 Okay. You're here. Very good.

19           And following number seven Alex Yerkey.

20           When you're ready, go ahead.

21           MS. GOVAERE: Good afternoon. My name is  
22 Gale Govaere. My zip code is 48226.

23           I'm actually here as a representative of  
24 Senator Carl Levin. And he could not be here today and  
25 asked if I could read a statement on his behalf.

1           First off, I would like to thank the Army  
2 Corps of Engineers for organizing today's event. Asian  
3 carp and invasive species are one of the largest  
4 threats facing the Great Lakes. So it is very  
5 important that we debate and discuss plans to prevent  
6 their introduction.

7           Senator Levin co-sponsored the National  
8 Invasive Species Act of 1996 which authorized the Corps  
9 to build a temporary dispersal barrier in the Chicago  
10 Sanitary and Ship Canal to stop invasive species from  
11 entering Lake Michigan. And he has repeatedly sought  
12 and succeeded in securing authorizing language in  
13 funding for the Army Corps to complete and enhance the  
14 dispersal barriers.

15           Senator Levin has continually urged the Army  
16 Corps of Engineers and other agencies to take effective  
17 actions to prevent Asian carp from entering the Great  
18 Lakes.

19           Last year Senator Levin's Asian Carp  
20 Prevention and Control Act, which places the bighead  
21 carp on the list of injurious species under the Lacey  
22 Act, was signed into law. He sponsored legislation  
23 that would direct the Army Corps to separate the study  
24 of hydrologic separation from the full Great Lakes and  
25 Mississippi River Interbasin Study. And he supports an

1 expedited analysis of hydrologic separation of the  
2 Mississippi River from the Great Lakes Basin, because  
3 five years is just too long to wait.

4           He has also been pushing the Army Corps to  
5 fully fund this project, and the Corps' fiscal year  
6 2012 budget request of 3 million for the study is a  
7 good step forward. We have already invested 37 million  
8 on the construction and operation of the electric  
9 dispersal barriers, on Asian carp monitoring and on  
10 studies. We cannot allow these efforts to be wasted by  
11 delay. Further, the \$7 billion Great Lakes fishing  
12 industry is too important to our economy and jobs to do  
13 anything less.

14           Thank you very much.

15           MR. BLUHM: Very good. Thank you.

16           Okay. We're on number seven now. Mr.  
17 Yerkey. And then following number eight Laura Rubin.

18           Okay. Go ahead when you're ready, sir.

19           MR. YERKEY: My name is Alex Yerkey -- Y-e-r-  
20 k-e-y. I'm here on behalf of Clean Water Action of  
21 Michigan. And our state zip code would be 48823 in  
22 East Lansing. My personal one 48108 here in Ann Arbor.

23           First of all, I would just like to thank  
24 everyone here for their presentations today and the  
25 work that they've been doing on this very important



1 issue.

2 I'm here on behalf of our over 250,000  
3 members in Michigan to urge you to take steps as  
4 rapidly as possible to begin the process of  
5 hydrological separation of the Great Lakes from the  
6 shipping canals in Chicago and the Mississippi River  
7 Basin. I understand that I'm the 15th person to speak  
8 here. So to the extent I might be repeating myself,  
9 I'll try to limit myself.

10 But as both representatives of Stabenow and  
11 Levin have noted, the fishing industry in the Great  
12 Lakes is a \$7 billion industry. The cost of closing  
13 the locks would be roughly 70 million. I understand  
14 that doesn't completely solve the problem, but, you  
15 know, our sense is if you can spend a penny to save a  
16 dollar, you know, why not, especially if it's going to  
17 make a big dent in the problem.

18 The other main issue that I don't believe has  
19 been brought up is that certain carp have been caught  
20 past any of our current barriers. One, I believe, in  
21 the Calumet River. I'm not entirely sure which branch,  
22 but it was six miles away from Lake Michigan. And  
23 would have had a clear shot, you know, had we not  
24 caught it. Which really calls into question, you know,  
25 are there fish that are making it that we don't know

1 about and, you know, what are we doing to deal with  
2 that issue.

3 In our estimation physical and hydrological  
4 separation is the only proven method of separating or  
5 preventing the carp from reaching the Great Lakes. And  
6 given that your Congressional mandate says that you  
7 need to focus on prevention and not risk reduction, we  
8 would ask you to focus on that.

9 I'll close here with I guess a fairly  
10 theoretical question, which is, you know, how do we put  
11 a price tag on the ecological health of the Great  
12 Lakes.

13 That's about it.

14 MR. BLUHM: Thank you.

15 GENERAL PEABODY: Thank you, sir. We  
16 appreciate all your points.

17 Let me take the Asian carp location question  
18 first. You're basically accurate. We found one big  
19 head carp in Lake Calumet, which is -- I think it's  
20 about right. Five, four or five, six miles from Lake  
21 Michigan, a couple of miles from O'Brien Lock and Dam.  
22 I'm not sure of the exact dimensions, but it is north  
23 of O'Brien Lock and Dam and south of Lake Michigan  
24 shoreline. That is the only Asian carp that we have  
25 found despite what's been almost a continuous year and

1 a half of fishing expeditions in the area above the  
2 fish barrier. Thousands of man hours, tens of  
3 thousands of fish that have been killed or captured,  
4 one Asian carp above the fish barrier.

5           So at least one Asian carp is present above  
6 the fish barrier. We found it. There may be others.  
7 eDNA indicates that that's a possibility. But since  
8 the science of eDNA has not yet evolved to a point  
9 where we can conclude that the presence of eDNA  
10 indicates live fish or that we can extract the  
11 information from eDNA that says this is from a live  
12 fish, we don't know that with certainty at this point.

13           But the fact that we have the eDNA evidence  
14 has caused enough seriousness for us to take a whole  
15 variety of actions, which we've already talked about,  
16 and I'm not going to reiterate again.

17           On hydro separation we certainly intend to  
18 look at that as one of the alternatives. Again, we're  
19 hopeful that the Great Lakes Commission Cities Study  
20 that they're executing will allow us to -- will inform  
21 our efforts and will allows us to perhaps reduce some  
22 of the study efforts that we have to undertake.

23           As to your questions about ecological health,  
24 I don't necessarily have a good answer for that. I can  
25 tell you that our charge under the law is to look at

1 the impacts, the costs and the benefits of various  
2 alternatives, understand the impacts, and then do an  
3 analysis of what those costs, benefits and impacts are,  
4 and then make recommendations associated with that. But  
5 ultimately it will be an administration policy decision  
6 as modified by Congressional judgment that will form  
7 the long-term actions.

8 But thanks, sir. We appreciate your  
9 comments.

10 MR. BLUHM: Excellent. Thank you.

11 Okay. We're on number eight Ms. Rubin. I  
12 see you're there. Great. And then following number  
13 nine Chuck Denton.

14 When you're ready, go ahead.

15 MS. RUBIN: Hello. My name is Laura Rubin --  
16 R-u-b-i-n. My zip code is 48103.

17 I'm the Executive Director of the Huron River  
18 Watershed Council, which is the watershed that you are  
19 sitting in today. You actually look out the other side  
20 is Ford Lake. This watershed drains about 910 square  
21 miles in southeast Michigan and drains into Lake Erie.

22 And I'm here today representing our concern  
23 about Asian carp entering the Great Lakes system, and  
24 specifically for us the Huron River watershed.

25 We're the oldest regional watershed council

1 in this state. We were formed in 1965 with a very  
2 strong scientific bend. We like to say that the Huron  
3 is the best studied river in Michigan. The majority of  
4 my staff are scientists. And it's one of the issues  
5 that I feel like, while I concur with many of the  
6 speakers, has not been brought up is trying to balance  
7 science with action. And it's something our  
8 organization struggles with.

9 We do lots of monitoring. We co-lead the  
10 state's rivers and lakes monitoring program with the  
11 Great Lakes Commission. We train a lot of people in  
12 science. And we run up against these issues while on a  
13 much smaller scale in our watershed, but trying to  
14 manage how much science we need before we take action.

15 And it's one of the things that I think is --  
16 that I haven't heard or is missing in this in terms of  
17 trying to balance the science and action in that when  
18 we're looking at a five-year study are there points in  
19 that study, are there points after a year or some of  
20 the data collection where there's a point where you  
21 look at some of the data, you look at what we've seen,  
22 and does this cause us to take action. And it's one of  
23 the things I haven't heard.

24 And I guess the question that I want to raise  
25 to you is we've heard that the Great Lakes Commission

1 is doing some data. There is the Canadian government  
2 that's collecting data. There's a lot of scientists,  
3 academics that are out there. Is there any point in  
4 this five-year study where you look at what you've got  
5 and decide we have enough data to take some action here  
6 or there might be some intermediate steps? Just  
7 because I think five years is a long time to take  
8 action. And I know as our organization we try to  
9 balance those.

10 Thank you.

11 GENERAL PEABODY: Yes, ma'am. You make  
12 excellent points. And I would say in general we concur  
13 with the approach that you're recommending.

14 The way I would characterize it is we intend  
15 to take science-based action. And the actions that we  
16 have taken so far are based on all the science and the  
17 data that we have to tell us what to do. And as I've  
18 indicated, as that knowledge evolves and if it changes,  
19 then we certainly are not wedded to what we've done. We  
20 would intend to make appropriate modifications in our  
21 actions.

22 With respect to the study, yes, absolutely.  
23 As we go forward and we cycle out and understand the  
24 data and as we develop an understanding of the options  
25 and technologies that might be affected, those that

1 look to us to be most promising and that are likely to  
2 potentially be able to execute in the shortest  
3 timeframe would be areas that we would focus on first.  
4 Because we don't want to wait for the perfect solution  
5 which is likely to take a long period of time. We want  
6 to take incremental steps that will help increase the  
7 likelihood that Asian carp and other species cannot  
8 migrate between the two basins.

9               So we definitely agree with your approach. We  
10 intend to follow it. What we can't say with certitude  
11 is how long it would take us, because we need to follow  
12 the study process that will reveal the science.

13              And, ma'am, if your organization, a science-  
14 based organization, has information that you think may  
15 be relevant to us, we would really appreciate you  
16 providing that to us. And we'll take a look at it and  
17 use it, if we can.

18              So thank you so much. Good points, good  
19 question.

20              MR. BLUHM: Thank you.

21              All right. We're up to number nine Mr.  
22 Denton. I see you're there. And then last on the list  
23 number 10 Marc Smith.

24              When you're ready, go ahead, sir.

25              MR. DENTON: Hi. I'm Chuck Denton -- D-e-n-

1 t-o-n. I represent Washtenaw Voice. Also, I'm a  
2 citizen here. Zip code is 48104.

3 First of all, I want to thank all of you  
4 folks for your service. I don't mean any disrespect on  
5 a personal level. I just have to say what I have to  
6 say.

7 The first thing that I'm disappointed in is I  
8 wish that there was a Canadian sitting there on that  
9 table with you as well as a Native American. And  
10 another representative needs to be there, and that is  
11 somebody accountable with regards to the inner city.

12 You're worried about the fish, which is  
13 important, but, you know, since I was a boy now I can't  
14 swim in the rivers. I can't drink the water. You know,  
15 the Huron River they tell me is poisoned. I can't swim  
16 in the lakes.

17 And I know the Army has been doing it's duty  
18 since 1820 since you built your first canal up in  
19 Macomb. And you'll march right over the cliff per the  
20 orders, which is fine.

21 But here we are. Our wetlands are just about  
22 gone. And, you know, I just feel like the only cash --  
23 it's the cash flow is what we're worried about. Not  
24 the Army, but the politics of it.

25 And, you know, if the fish are a problem, why



1 don't we draft some pike to go get them instead of  
2 studying this whole situation to death.

3           The other thing I don't understand is, you  
4 know, the Army Corps of Engineers has a site in  
5 Detroit, old historical Fort Wayne. And if that's a  
6 reflection of what we're going to be doing, the whole  
7 facility is dilapidated. It's so bad there that the  
8 fire hydrants are leaking. If you have a fire, you're  
9 not going to be able to get any water because the fire  
10 hydrants are all rusted out.

11           So I just apologize for being, you know, so  
12 direct, but I -- you know, I think what we're doing  
13 here is studying, and we are -- our cure is worse than  
14 the disease. And what I mean by that is this is a  
15 living planet. It means it's got to breathe. We're  
16 going to clog up the rest of the waterway system for  
17 some fish. Just find a natural predator and get rid of  
18 the Asian carp.

19           But, you know, on top of that I just seen the  
20 other day there was individuals smuggling fish. And I'm  
21 telling you this problem is bigger than just Chicago.

22           So my -- I guess my criticism is I wish there  
23 was a Canadian and a Native American and an inner city  
24 person here with you being responsible. But I know  
25 we've got bureaucracy that goes around the planet, and

1 in Washington DC it's like a black hole. I don't  
2 understand how things get done in there any more other  
3 than money flows.

4 So, again, thank you for your service.

5 MR. BLUHM: Thank you.

6 MR. WETHINGTON: Although we don't have the  
7 folks who you represented sitting at this table, I  
8 would like to say that we all represent all those  
9 organizations who are working together with us  
10 collaboratively. Mr. Goss from the White House Council  
11 on Environmental Quality he leads up the Asian Carp  
12 Regional Coordinating Committee which has a number of  
13 different organizations. Myself as the Project Manager  
14 for the Corps of Engineers. We are working -- we took  
15 a trip up to Traverse City. And while we were up  
16 there, we went and met with a Native American tribe and  
17 specifically talked to them about this issue, because  
18 they voiced an interest and wanted to be included as  
19 part of the study.

20 So although we can't bring everyone here to  
21 the table today, we do represent all of those  
22 organizations and entities and cultural backgrounds  
23 that you described to us. So I appreciate that. And,  
24 trust me, we're doing what we can.

25 GENERAL PEABODY: I would just add we do keep

1 the Canadian government informed primarily through the  
2 mechanism of the International Joint Commission, but  
3 also in other ways. We are in communications with  
4 them.

5 Thank you, sir.

6 MR. BLUHM: Okay. Very good. Thank you.

7 Okay. We're on number 10 on the yellow list.  
8 Mr. Smith, when you're ready, go ahead.

9 MR. SMITH: Good afternoon. Marc Smith with  
10 the National Wildlife Federation. 48103.

11 I want to again thank you guys for doing this  
12 meeting. This is appropriate that it's on Fat Tuesday.  
13 Your tour has been a party, but now the work has to  
14 begin, okay?

15 So I want to just reference two points. I  
16 know that we have concerns that I've talked at before.  
17 We're going to give you lengthy comments to drool over  
18 when we submit those.

19 But one of the two areas I want to talk about  
20 were electrical barrier and then the other pathways.  
21 And I wanted to ask kind of more questions. Maybe you  
22 can reserve the answer until I'm done with my comments.

23 So I want to ask the question about the  
24 Smith-Root Electrical Barrier Operating Report, which  
25 basically y'all have been referring to as showing that

1 electrical fence as having prevented the carp from  
2 coming in or invasive species has worked. I wonder why  
3 you have refused to release that report and why did it  
4 take litigation and the threat of litigation for you  
5 guys to release that.

6 The second part on the other pathways --  
7 maybe, Mr. Saffran, I can direct it towards you. Again,  
8 appreciate the fast nature that you did to identify  
9 those areas. That just shows that the Corps can move  
10 fast. We appreciate that.

11 One of the things in there is you identified  
12 potential expert panels that would be established at  
13 each of these areas that basically come together to  
14 develop an action plan of how to address that threat. I  
15 want to know when will you start developing or  
16 organizing those expert panels and when will you --  
17 what's the criteria for groups or NGOs or key  
18 stakeholders that will be a part of those panels?

19 So that's all I wanted to say. So I want to  
20 reserve the time for the questions. So report, then  
21 Mr. Saffran on the ANS other pathways.

22 MR. BLUHM: Great. Thank you.

23 GENERAL PEABODY: Okay. Good. Thanks, sir.

24 Okay. With regard to the Smith-Root report,  
25 when -- I think we were asked for that information -- I

1 think it was the Technical Advisor Group was at least  
2 one of the groups that asked for that information. The  
3 report was still being drafted. And at that time it  
4 wasn't final. And so we were still going through  
5 analysis of what the information meant. And as I  
6 indicated earlier, without getting into the details,  
7 it's very difficult to understand. It's highly  
8 technical. And we needed our professional experts to  
9 go through it and make sure we had a clear  
10 understanding of what the limitations are of the  
11 research that's done and what conclusions we could draw  
12 from those limitations. It's not obvious or apparent.  
13 It's not as my calculus book used to say intuitively  
14 obvious to the casual observer. It's quite the  
15 contrary. It's very complex and difficult to  
16 understand actually.

17           Between the time we got that request for the  
18 information and the FOIA requests which followed  
19 shortly thereafter, at the time we got the FOIA request  
20 this was still pre-decisional information and had not  
21 been adequately analyzed to the point where we thought  
22 it was ready for public dissemination. So we really  
23 need to get to that point before we put draft reports  
24 out there, because conclusions could change. It needs  
25 to be vetted internally. We need to have a clear

1 understanding ourselves of what it means before we put  
2 it out there.

3           Shortly after the FOIA request came out, we  
4 got information from Smith-Root scientists that they  
5 were approaching the end of their drafting process and  
6 it was ready for internal review. And as a result of  
7 that -- now, we thought it was going to be a few more  
8 months, and it turns out it was only going to be a few  
9 more weeks. So as a result of that, we decided once  
10 our internal drafting review was done that we would  
11 release the report, because obviously it has a lot of  
12 public interest. Prior to putting that into the  
13 interim report, too, for the efficacy study, which  
14 won't come out for several more months. So that's what  
15 happened there.

16           And I think the other question I'm going to  
17 let Mike Saffran take here on the other pathways.

18           Mike?

19           MR. SMITH: Well, actually if I could just  
20 interject on that just responding to your point. If  
21 information needed to be vetted through the various key  
22 agencies before you can release that, why did you keep  
23 referring to this report as evidence that the  
24 electrical fence is working?

25           GENERAL PEABODY: Well, because we were

1 making decisions in realtime. I'm not going to wait  
2 until I have a report to say, okay, I'm not going to  
3 make changes, because the Asian carp are there. They're  
4 approaching the area of the fish barrier. And we can't  
5 wait for perfect to make decisions. That's why we acted  
6 on environmental DNA evidence even though we didn't go  
7 through our normal process of internal -- independent  
8 external peer review to even apply it. We did the  
9 internal -- the independent external peer review  
10 simultaneously with the application of the information.

11 This is a situation that's very dynamic. We  
12 cannot afford to make a mistake. We recognize that.  
13 And we want to apply the best knowledge in realtime.

14 Now, we still have to follow our legal  
15 obligations to execute these formal report processes in  
16 the appropriate manner.

17 And, further, as everybody here is well  
18 aware, we've been in litigation on this issue, and  
19 we've had to defend our decisions. And so we've made  
20 public that information that we could to support the  
21 decisions and judgments that we've made.

22 But I want to be very clear that as  
23 information evolves if we believe that decisions that  
24 we had previously made need to be modulated or  
25 adjusted, we'll do that.

1 I hope that answers your question. Thank you  
2 for it.

3 MR. SAFFRAN: Hi, Marc.

4 The other pathways, I think you're referring  
5 to the draft study plan we had to complete the risk  
6 characterization to the other pathways, and basically  
7 it's still in draft form. I have received a number of  
8 comments from internal folks within the Army Corps of  
9 Engineers. We have briefed each of the state DNRs  
10 where there are pathways within those states, as well  
11 as Pennsylvania and Michigan also have been briefed on  
12 basically what our plan is. Haven't gotten any formal  
13 comments yet. Have received some identification of  
14 folks who would be available to participate in the  
15 teams.

16 Just to cut it real short, I guess, we've got  
17 -- the plan calls for setting up individual pathway  
18 teams for each of the 18 teams to have coordination for  
19 all locations within any given state, and then to have  
20 an expert review panel that would be made up of folks  
21 who aren't actively involved in doing the individual  
22 work but that who would at key points be briefed on  
23 what the status is and provide input and direction to  
24 the teams so that they go forward in the best way  
25 possible.



1           As far as inclusion of NGOs in that process,  
2 I'm not an attorney, but I understand there's issues  
3 with something called FACA. And I'm not even sure what  
4 the acronym stands for, F-A-C-A. But we have contacted  
5 the Great Lakes Fisheries Commission. My understanding  
6 is they're exempt from the FACA requirement to try to,  
7 again, increase the ability to get the best expert from  
8 outside of our organization frankly to help inform the  
9 study and the results of that study before we release  
10 it so that we can put out the best product possible.

11           So that's basically what the status is. I  
12 can't tell you right now how or if we are going to be  
13 able to involve NGOs in the process.

14           MR. SMITH: All right. Thank you.

15           GENERAL PEABODY: Thank you.

16           MR. BLUHM: Excellent. Thank you.

17           All right. Folks, I've got a slight dilemma  
18 here.

19           MR. GOSS: Just to clarify, they could  
20 recommend individuals, couldn't they, Mike?

21           MR. SAFFRAN: You're talking about --

22           MR. GOSS: With credentials for the expert  
23 panels?

24           MR. SAFFRAN: Again, I'm not sure that I know  
25 the answer to that.

1 MR. GOSS: Well, academics or other experts.

2 MR. SAFFRAN: That was my intent was to try  
3 to get the best expert. I understand that there are  
4 issues if you're not a representative of a government  
5 agency.

6 MR. GOSS: I'm talking about not representing  
7 groups, but as individuals.

8 MR. SAFFRAN: And I'm not sure what the --

9 GENERAL PEABODY: We can take information  
10 from any source. It's our ability to collaborate  
11 actively with those sources that's in question. I'm  
12 going to get myself in trouble with my attorney here,  
13 because I don't understand the details of the law.

14 MR. GOSS: We'll take it after the meeting.

15 GENERAL PEABODY: Okay. Great. Thanks.

16 MR. BLUHM: Excellent.

17 Okay. Folks, we're in a slight dilemma here.  
18 We've been talking very good discussion. We've heard  
19 from 18 individuals.

20 At this point in time I've got about seven  
21 minutes on the clock. I would like to see a show of  
22 hands is there anybody else that has not had an  
23 opportunity to approach the panel that would like to  
24 now make an oral presentation or statement or comment  
25 or question for us?

1 Anybody?

2 Okay. I want to say that because, number  
3 one, we can definitely take one more or maybe two more,  
4 but I want to make sure that we give the panel  
5 especially and the rest of the room a chance to reset  
6 after this meeting.

7 With that said, keep in mind if you do have  
8 anything that you do think of we will be doing this  
9 exact presentation and session again starting at 5:30.  
10 And would like to also say that we thank you all for  
11 your comments that you have for us.

12 If you have anything prepared that you would  
13 like to turn in, I would ask that you bring them up to  
14 the front table to myself or leave them out in the  
15 hallway at the registration table so they can be  
16 properly entered into our NEPA scoping document.

17 Also, if you do wish to send in any written  
18 documentation, again, that March 31st due date is a  
19 very important cutoff date for you to remember.

20 And then, lastly, if you have any materials  
21 that we've provided for you that you do not need  
22 anymore, you do not wish to carry with you, you can  
23 leave them right there at your location and we will  
24 come by and recycle those for you. If you need  
25 additional information or material packets for anybody

1 that was not able to make it today, feel free to help  
2 yourself out at the registration desk. We do have  
3 extras, and you can take as many as you would like.

4 With that being said, I will adjourn the  
5 meeting. It's 4:55. And ask you all to have a safe  
6 and enjoyable evening. Thank you much.

7 GENERAL PEABODY: Thanks everybody.

8 (Meeting concluded at 4:55 p.m.)

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1 CERTIFICATE OF NOTARY PUBLIC

2 I, Catherine M. Collier, the officer before whom  
3 the foregoing hearing was taken, do hereby certify that  
4 the witness whose testimony appears in the foregoing  
5 pages was recorded by me and thereafter reduced to  
6 typewriting under my direction; that said hearing is a  
7 true record of the proceedings; that I am neither  
8 counsel for, related to, nor employed by and of the  
9 parties to the action in which this hearing was taken;  
10 and, further, that I am not a relative or employee of  
11 an counsel or attorney employed by the parties hereto,  
12 nor financially or otherwise interested in the outcome  
13 of this action.

14

15

16

17

18

19

20

21

-----

22

Catherine M. Collier

23

Notary Public in and for the

24

State of Michigan

25 My commission expires: October 29, 2011

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011

Page 1

|                               |                             |                            |                              |
|-------------------------------|-----------------------------|----------------------------|------------------------------|
| <u>\$</u>                     | <b>1820</b> 127:18          | <b>4</b> 33:18 58:9        | <b>7</b> 8:12 32:25 112:5    |
| <b>\$16</b> 64:4              | <b>1955</b> 94:1            | <b>4:55</b> 139:5,8        | <b>70</b> 34:20 35:3 108:22  |
| <b>\$200,000</b> 43:2         | <b>1965</b> 124:1           | <b>40</b> 80:13            | 120:13                       |
| <b>\$25</b> 46:4              | <b>1996</b> 118:8           | <b>40,000</b> 15:1         | <b>79</b> 3:9                |
| <b>\$7</b> 64:3 119:11 120:12 | <b>1A0</b> 108:12           | <b>48025</b> 99:22         | <u>8</u>                     |
| <u>0</u>                      | <u>2</u>                    | <b>48103</b> 102:10 108:13 | <b>8</b> 1:9                 |
| <b>07</b> 42:25               | <b>2</b> 33:9               | 123:16 130:10              | <b>80</b> 34:21,22 35:3      |
| <b>08</b> 42:25               | <b>2.3</b> 60:16,18         | <b>48104</b> 66:20 93:14   | <b>81</b> 3:10               |
| <b>09</b> 43:1                | <b>2:00</b> 1:14            | 111:13 127:2               | <b>84</b> 3:11               |
| <u>1</u>                      | <b>20</b> 37:14             | <b>48105</b> 84:25         | <u>9</u>                     |
| <b>1</b> 32:8 33:7,9,13       | <b>2002</b> 37:18           | <b>48108</b> 119:22        | <b>90</b> 21:5               |
| <b>10</b> 13:9 40:14 76:21    | <b>2003</b> 58:9            | <b>48197</b> 57:4          | <b>910</b> 123:20            |
| 79:23 126:23 130:7            | <b>2007</b> 42:24           | <b>48201</b> 81:11         | <b>93</b> 3:12               |
| <b>100</b> 23:12              | <b>2009</b> 105:19          | <b>48226</b> 63:20 117:22  | <b>99</b> 3:13               |
| <b>102</b> 3:14               | <b>2011</b> 1:9 140:25      | <b>48302</b> 79:11         | <u>A</u>                     |
| <b>108</b> 3:15               | <b>2012</b> 119:6           | <b>48823</b> 119:21        | <b>abide</b> 49:11           |
| <b>111</b> 3:16               | <b>2014</b> 56:19           | <u>5</u>                   | <b>ability</b> 20:12 21:8    |
| <b>117</b> 3:17               | <b>2015</b> 82:15 86:9      | <b>5</b> 8:6 32:9 33:8,18  | 35:24 38:4 43:10             |
| <b>119</b> 3:18               | 100:6,9 113:16              | 66:15                      | 59:22 75:3 98:23             |
| <b>12</b> 15:9 82:15          | <b>25</b> 40:23 112:23      | <b>5:30</b> 8:7 138:9      | 99:9 105:19 136:7            |
| <b>1200</b> 15:7              | 114:23                      | <b>50</b> 72:5 114:19,20   | 137:10                       |
| <b>123</b> 3:19               | <b>250,000</b> 120:2        | <b>50s</b> 85:6            | <b>able</b> 28:2 35:16 36:17 |
| <b>126</b> 3:20 73:14,18,23   | <b>29</b> 140:25            | <b>52</b> 3:4              | 37:24 43:7,12 46:24          |
| 105:23                        | <u>3</u>                    | <b>54</b> 3:5              | 55:7,8 57:12 59:1,19         |
| <b>1275</b> 1:13              | <b>3</b> 33:9,10 119:6      | <u>6</u>                   | 65:15 78:21,23,25            |
| <b>13</b> 14:13               | <b>30</b> 8:8 80:13         | <b>6</b> 33:11,14          | 79:1,24 126:2 128:9          |
| <b>130</b> 3:21               | <b>30-minute</b> 8:8        | <b>60</b> 35:4 41:25 47:23 | 136:13 139:1                 |
| <b>143,000</b> 81:12          | <b>31st</b> 6:1 7:25 138:18 | <b>60-day</b> 38:8         | <b>above-entitled</b> 1:10   |
| <b>15</b> 37:14 50:10         | <b>35</b> 56:14             | <b>63</b> 3:6              | <b>abroad</b> 93:24          |
| <b>1500</b> 38:1              | <b>36</b> 25:16 30:25       | <b>65</b> 3:7              | <b>absolutely</b> 83:17      |
| <b>15th</b> 120:7             | 39:1,4,17 105:2             | <b>66</b> 3:8              | 125:22                       |
| <b>18</b> 25:19 39:18 105:1   | <b>37</b> 119:7             | <b>67</b> 38:8             | <b>academics</b> 28:25       |
| 135:18 137:19                 | <b>3rd</b> 47:3             | <b>68</b> 38:8             | 125:3 137:1                  |
| <b>180</b> 81:18              | <u>4</u>                    | <u>7</u>                   | <b>Academy</b> 79:13         |
| <b>1800s</b> 39:9             | <u>4</u>                    | <u>7</u>                   | <b>accelerate</b> 96:8,14    |
|                               |                             |                            | <b>accelerated</b> 25:21     |
|                               |                             |                            | 87:20                        |

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 2

|   |   |   |   |
|---|---|---|---|
| <b>acceptable</b> 83:7<br><b>accepted</b> 18:24 19:22<br><b>access</b> 93:6<br><b>accomplish</b> 7:13 11:12<br><b>accomplishment</b> 14:7<br><b>accomplishments</b><br>14:21<br><b>accountable</b> 127:11<br><b>accounts</b> 47:13<br><b>accurate</b> 62:14 91:20<br>121:18<br><b>achievable</b> 23:16<br>72:23 73:5<br><b>achieve</b> 21:15<br><b>achieving</b> 96:13,19<br>97:1<br><b>Achilles</b> 86:15<br><b>acidification</b> 112:1<br><b>acoustic</b> 68:17<br><b>acronym</b> 136:4<br><b>across</b> 38:1 39:3,12<br>40:11,17 69:15<br>80:10 104:17<br><b>act</b> 21:21,25 22:6,7<br>26:21 33:20 42:24<br>64:15 65:2 66:21<br>103:7 106:16<br>118:8,20,22<br><b>acted</b> 134:5<br><b>action</b> 56:1<br>64:16,21,23<br>69:13,20 71:5,7<br>77:12,14 105:24<br>114:4,9 115:14,17<br>119:20<br>124:7,14,17,22<br>125:5,8,15 131:14<br>140:9,13<br><b>actions</b> 44:12<br>69:17,18,19 | 106:11,17 115:20<br>118:17 122:15 123:7<br>125:15,21<br><b>actively</b> 135:21 137:11<br><b>activities</b> 23:14 98:22<br><b>actual</b> 5:11,18 7:10<br>20:11 42:1 50:7<br>61:10<br><b>actually</b> 16:9 18:10<br>29:5 38:9 44:5 45:1<br>68:10,23 70:10,17<br>72:14 77:10,11<br>91:12 105:1 108:22<br>109:9 110:20 117:23<br>123:19 132:16<br>133:19<br><b>add</b> 61:16 106:23<br>109:21 111:4 116:19<br>129:25<br><b>added</b> 13:14 48:14<br><b>addition</b> 49:5 82:22<br>94:21<br><b>additional</b> 39:20<br>43:23 48:15 49:14<br>100:7 138:25<br><b>Additionally</b> 33:7<br>35:10<br><b>address</b> 37:15 41:12<br>49:13,16 63:25<br>71:21 81:25 89:3<br>131:14<br><b>addressing</b> 11:1<br><b>adequate</b> 43:5<br><b>adequately</b> 132:21<br><b>adjacent</b> 9:3<br><b>adjourn</b> 139:4<br><b>adjourned</b> 8:18<br><b>adjust</b> 72:9<br><b>adjusted</b> 54:8 134:25<br><b>adjustments</b> 72:10 | <b>administration</b> 10:21<br>17:1 21:25 54:14<br>75:13 123:5<br><b>adopted</b> 15:24,25<br><b>advancement</b> 11:2<br><b>advancing</b> 107:23<br><b>adverse</b> 36:8,10,17<br><b>advise</b> 78:16<br><b>Advisor</b> 132:1<br><b>Affairs</b> 63:16<br><b>affect</b> 92:2<br><b>affected</b> 55:14,15<br>108:20,24 109:23<br>125:25<br><b>affects</b> 55:18 93:20<br><b>affiliation</b> 51:8<br><b>afford</b> 134:12<br><b>Afghanistan</b> 20:25<br>21:6,17<br><b>Africa</b> 20:22<br><b>afternoon</b> 4:2 17:20<br>63:13 79:12 117:21<br>130:9<br><b>afterwards</b> 69:25<br>70:21 81:3<br><b>against</b> 61:13,14<br>124:12<br><b>age</b> 47:10<br><b>agencies</b> 11:4 13:13,18<br>15:3 17:4 20:9<br>27:18,22 28:17<br>34:4,5 36:21 42:15<br>44:13 45:19 92:13<br>98:25 118:16 133:22<br><b>agency</b> 13:16 92:15,18<br>94:1 105:17 106:8<br>137:5<br><b>agenda</b> 5:11 8:2<br><b>aggressive</b> 64:23 | 115:17<br><b>aggressively</b> 43:10<br><b>ago</b> 4:8 11:23 13:12<br>72:5 85:1 112:11<br><b>agreed</b> 27:18 28:1<br>95:19<br><b>agreement</b> 62:9<br><b>agricultural</b> 39:12<br><b>agriculture</b> 53:20<br><b>ahead</b> 11:9 14:18<br>20:14 37:6 54:9<br>63:11 65:10 81:9<br>83:13 87:2 93:10<br>102:7 108:9 111:11<br>117:20 119:18<br>123:14 126:24 130:8<br><b>air</b> 30:11 79:23<br><b>AIS</b> 103:13,20,22,23<br>104:1<br><b>alewife</b> 85:20,24<br><b>Alex</b> 3:18 117:19<br>119:19<br><b>algae</b> 71:13<br><b>allow</b> 19:24 20:9<br>21:11 23:21,22<br>49:7,16 57:23 75:22<br>119:10 122:20<br><b>allowed</b> 73:13<br><b>allowing</b> 9:22 35:17<br><b>allows</b> 105:6 122:21<br><b>alluded</b> 27:3<br><b>already</b> 14:5 26:11,19<br>27:3 30:1,25 31:11<br>37:14,20 39:1 40:20<br>46:4,7 67:5 70:18<br>73:9 107:8 109:2<br>116:13 119:7 122:15<br><b>alter</b> 57:12<br><b>alternate</b> 101:3<br><b>alternative</b> 57:14,22 |
|---|---|---|---|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 3

|   |   |  |  |
|---|---|--|--|
| <p>74:15,24 78:9 80:11<br/>88:11 91:11</p> <p><b>alternatives</b> 23:22<br/>29:17,19 30:6 75:15<br/>78:7 87:9,11 88:1<br/>89:14 122:18 123:2</p> <p><b>am</b> 32:3 73:14<br/>81:12,18 109:11<br/>114:7 140:7,10</p> <p><b>amazing</b> 80:4</p> <p><b>American</b> 108:23<br/>109:9 113:23 127:9<br/>128:23 129:16</p> <p><b>Americans</b> 108:23</p> <p><b>among</b> 42:15 52:18<br/>113:4</p> <p><b>amount</b> 38:10,11 43:3<br/>109:13</p> <p><b>analysis</b> 90:19 110:13<br/>112:10 119:1 123:3<br/>132:5</p> <p><b>analytics</b> 29:5</p> <p><b>analyzed</b> 132:21</p> <p><b>and/or</b> 33:16</p> <p><b>Andy</b> 3:8 65:8 66:20<br/>71:24 75:22 78:4</p> <p><b>anecdote</b> 34:25</p> <p><b>animal</b> 30:13</p> <p><b>animals</b> 53:20</p> <p><b>Ann</b> 1:12 98:11<br/>102:10 108:13<br/>119:22</p> <p><b>announce</b> 50:13</p> <p><b>annual</b> 40:14</p> <p><b>ANS</b> 131:21</p> <p><b>answer</b> 6:13 49:9 54:1<br/>60:19 77:11 87:5,6,7<br/>88:4,25 90:23<br/>91:1,12,16 115:4,8<br/>116:23 122:24</p> | <p>130:22 136:25</p> <p><b>answerable</b> 49:9</p> <p><b>answered</b> 109:16</p> <p><b>answering</b> 74:5</p> <p><b>answers</b> 109:18<br/>117:14 135:1</p> <p><b>anticipates</b> 104:1</p> <p><b>anybody</b> 50:22 51:17<br/>92:25 137:22<br/>138:1,25</p> <p><b>anymore</b> 66:2 85:18<br/>138:22</p> <p><b>anyone</b> 65:1</p> <p><b>anything</b> 21:23 26:3<br/>61:16 69:10 101:24<br/>103:8 111:5 119:13<br/>138:8,12</p> <p><b>anytime</b> 103:7</p> <p><b>anyway</b> 104:2 110:3<br/>115:1</p> <p><b>anywhere</b> 35:4</p> <p><b>apologize</b> 17:22 65:8<br/>128:11</p> <p><b>apparent</b> 132:12</p> <p><b>apparently</b> 58:21</p> <p><b>appeal</b> 54:13</p> <p><b>appear</b> 29:19 74:8</p> <p><b>appears</b> 140:4</p> <p><b>applaud</b> 95:4,5 96:5</p> <p><b>application</b> 134:10</p> <p><b>applied</b> 116:3</p> <p><b>apply</b> 73:18 78:21<br/>105:7 134:8,13</p> <p><b>applying</b> 116:17</p> <p><b>appreciate</b> 4:10 10:1<br/>17:21 26:13 37:1<br/>42:19 48:6 57:6 63:6<br/>79:3,10 81:5 92:20<br/>96:5,22 98:21 99:12</p> | <p>101:21 117:15<br/>121:16 123:8 126:15<br/>129:23 131:8,10</p> <p><b>appreciated</b> 7:4 51:7</p> <p><b>appreciation</b> 52:20</p> <p><b>approach</b> 23:23 30:3<br/>105:14 125:13 126:9<br/>137:23</p> <p><b>approaching</b> 133:5<br/>134:4</p> <p><b>appropriate</b> 45:6<br/>75:21 91:11 105:25<br/>106:18 125:20<br/>130:12 134:16</p> <p><b>appropriation</b> 22:5</p> <p><b>approximately</b> 8:6,12</p> <p><b>aptly</b> 113:9</p> <p><b>aquatic</b> 20:3 23:1<br/>24:20 25:12 26:4<br/>29:22 30:22 31:10<br/>32:16 36:3,5<br/>37:11,15,19,25<br/>38:4,6 39:16 40:19<br/>42:12 83:21 84:8<br/>92:7 94:15,20,21<br/>95:2,23 102:13<br/>105:7</p> <p><b>Arbor</b> 1:12 98:12<br/>102:10 108:13<br/>119:22</p> <p><b>area</b> 7:20 9:22 11:14<br/>12:16,22 13:4 14:23<br/>15:3,6,10,11,14<br/>16:15,20 17:6,12<br/>18:3 20:1<br/>24:3,4,7,9,11,14<br/>25:15,25 27:4,7<br/>31:18 32:4,8 34:23<br/>35:9,15,18,19 36:6<br/>52:14 53:20<br/>55:14,18 64:17<br/>82:13 84:6 86:22<br/>88:14,16 93:21</p> | <p>94:13 95:6 96:6<br/>97:4,6,10 100:6<br/>101:17 102:18 106:1<br/>109:12 110:2<br/>115:18,21 122:1<br/>134:4</p> <p><b>areas</b> 9:18 12:5,13<br/>15:15 16:8,11,12<br/>27:2,8 32:11 55:4<br/>71:15 101:1,3<br/>102:24 103:4 107:24<br/>109:22 110:14 126:3<br/>130:19 131:9,13</p> <p><b>aren't</b> 76:8 86:15<br/>135:21</p> <p><b>Arkansas</b> 24:12</p> <p><b>Army</b> 1:11 2:8 9:7<br/>28:15 32:5 54:13<br/>56:8,11 64:7 66:8<br/>81:21,25 82:4,18,25<br/>88:5 105:22<br/>118:1,13,15,23<br/>119:4 127:17,24<br/>128:4 135:8</p> <p><b>arriving</b> 103:4</p> <p><b>article</b> 56:6,25<br/>62:10,17</p> <p><b>Asia</b> 56:3</p> <p><b>Asian</b> 2:4 9:3<br/>10:6,11,17,23<br/>11:2,7,15 15:4<br/>16:4,9,19,24 18:20<br/>23:3 27:16 28:1<br/>30:20 32:24 37:22<br/>40:22,23,25 43:22<br/>44:14 55:9,20 56:10<br/>64:1,3,10,15,19<br/>65:2,12 66:25 67:16<br/>68:5 70:24 71:11,17<br/>72:6 79:20 81:21<br/>82:13 83:1,6 86:2,10<br/>87:19 91:10 92:16<br/>94:14,19 95:9,10<br/>106:1 107:10,25<br/>108:18 110:19</p> |
|---|---|--|--|



Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011

Page 4

|   |  |   |   |
|---|--|---|---|
| <p>112:11,12<br/>118:2,17,19 119:9<br/>121:17,24 122:4,5<br/>123:23 126:7 128:18<br/>129:11 134:3</p> <p><b>aspects</b> 48:23 78:25</p> <p><b>assembly</b> 8:24</p> <p><b>assess</b> 75:14 116:4</p> <p><b>assessment</b> 38:4 111:1</p> <p><b>assessments</b> 16:10<br/>28:12 29:24 84:11<br/>90:11,14</p> <p><b>assigned</b> 93:1</p> <p><b>assisted</b> 41:24</p> <p><b>associated</b> 19:4 30:2<br/>83:20 84:7 123:4</p> <p><b>association</b><br/>108:15,16,22</p> <p><b>assume</b> 114:17</p> <p><b>assumption</b> 68:13</p> <p><b>assuredly</b> 45:2,14</p> <p><b>athlete</b> 44:24</p> <p><b>Atlantic</b> 85:12</p> <p><b>attack</b> 25:24 54:15</p> <p><b>attend</b> 63:24</p> <p><b>attendance</b> 112:13</p> <p><b>attended</b> 99:24 112:12</p> <p><b>attending</b> 31:24</p> <p><b>attention</b> 24:19</p> <p><b>attitude</b> 112:8</p> <p><b>attorney</b> 136:2 137:12<br/>140:11</p> <p><b>attractants</b> 16:14</p> <p><b>audience</b> 111:17</p> <p><b>auditorium</b> 50:24</p> <p><b>aunts</b> 20:23</p> <p><b>authorities</b> 22:6 91:24</p> | <p>92:2,4 109:5</p> <p><b>authority</b> 21:24 22:1,3<br/>26:15 42:22,23<br/>73:13,14,23,24<br/>74:10,17,20 88:5<br/>105:21,22 106:3,20</p> <p><b>authorization</b> 100:8</p> <p><b>authorized</b> 59:16 68:2<br/>69:2 74:7 118:8</p> <p><b>authorizing</b> 118:12</p> <p><b>automatically</b> 77:14</p> <p><b>available</b> 7:2 8:10<br/>19:1 22:20,22 38:12<br/>74:10,16 135:14</p> <p><b>avenue</b> 25:24</p> <p><b>aware</b> 65:11 73:12,21<br/>134:18</p> <p><b>away</b> 31:22 56:19<br/>64:24 77:11 87:21<br/>103:14 105:13<br/>120:22</p> <p><b>awesome</b> 66:3</p> <hr/> <p><b>B</b></p> <hr/> <p><b>Baccalaureate</b> 79:16</p> <p><b>backflow</b> 35:16</p> <p><b>backflows</b> 40:9</p> <p><b>background</b> 5:17<br/>11:14 17:10,13<br/>52:25</p> <p><b>backgrounds</b> 129:22</p> <p><b>backups</b> 35:20</p> <p><b>bad</b> 128:7</p> <p><b>bag</b> 102:25</p> <p><b>Bailey</b> 113:21</p> <p><b>balance</b> 28:9 108:1<br/>124:6,17 125:9</p> <p><b>Band-Aid</b> 54:1</p> <p><b>Barbara</b> 3:6 54:7</p> | <p>63:15</p> <p><b>barbed</b> 80:8</p> <p><b>barge</b> 112:15</p> <p><b>barrier</b> 12:17<br/>14:13,16,24 18:21<br/>19:5 30:2 32:24 36:9<br/>41:15 42:2 44:16<br/>56:13 58:3,10,18,21<br/>61:1 73:10 76:15<br/>96:1 103:25 104:3<br/>106:5<br/>114:16,18,22,23<br/>115:24<br/>116:1,2,11,22<br/>117:1,3,4,8 118:9<br/>122:2,4,6 130:20,24<br/>134:4</p> <p><b>barriers</b> 10:25 12:15<br/>17:5,7 37:18 61:5<br/>102:15 103:11,19,21<br/>114:14,15,25 115:25<br/>116:21 117:7 118:14<br/>119:9 120:20</p> <p><b>based</b> 59:10 69:17<br/>75:9 78:10 87:25<br/>98:11 112:16 125:16<br/>126:14</p> <p><b>baseline</b> 6:5</p> <p><b>basically</b> 4:19 25:18<br/>26:3 32:7,11 33:9<br/>36:2 58:11,14 60:13<br/>75:12 105:23 109:1<br/>110:4 121:18 130:25<br/>131:13 135:6,12<br/>136:11</p> <p><b>basin</b> 12:7 23:1,2,7<br/>24:13,18,20,22<br/>32:12,13 38:1<br/>39:3,10,12,14<br/>40:10,17 95:18<br/>102:13,21 104:17<br/>119:2 120:7</p> <p><b>basins</b> 25:5 38:2 46:13<br/>84:1 92:8 126:8</p> | <p><b>basis</b> 25:21 57:11 78:7<br/>105:24 106:16</p> <p><b>Battle</b> 52:14</p> <p><b>bay</b> 108:14,16,17<br/>109:21,22</p> <p><b>beach</b> 85:18</p> <p><b>beaches</b> 55:15</p> <p><b>bearing</b> 4:10</p> <p><b>beautiful</b> 80:4</p> <p><b>Becker</b> 3:14 99:20<br/>102:5,8,9</p> <p><b>become</b> 25:17 55:5<br/>81:20</p> <p><b>becomes</b> 59:22</p> <p><b>bedeviled</b> 71:14</p> <p><b>begin</b> 4:17 8:7 10:6<br/>70:24 103:4 120:4<br/>130:14</p> <p><b>beginning</b> 8:4 34:8<br/>42:20 54:18 115:16</p> <p><b>begins</b> 82:6</p> <p><b>behalf</b> 63:25 94:1,8<br/>98:9,13 108:21<br/>109:15 117:25<br/>119:20 120:2</p> <p><b>behavior</b> 112:9</p> <p><b>behind</b> 32:2,7 113:4</p> <p><b>behold</b> 41:25</p> <p><b>believe</b> 19:5 21:13<br/>39:18 42:4 66:11<br/>68:10,12 70:11,18<br/>75:10 93:7 94:24<br/>96:10 106:18<br/>120:18,20 134:23</p> <p><b>believed</b> 71:4</p> <p><b>believes</b> 67:17</p> <p><b>bend</b> 124:2</p> <p><b>beneficial</b> 97:9,12</p> <p><b>benefit</b> 90:6 112:10</p> |
|---|--|---|---|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 5

|   |  |  |  |
|---|--|--|--|
| <b>benefiting</b> 111:1<br><b>benefits</b> 67:10<br>68:8,19,20 76:7 77:6<br>87:10 89:12,13<br>123:1,3<br><b>Benton</b> 53:3<br><b>besides</b> 17:11<br><b>best</b> 17:3 19:25 20:12<br>38:12 44:9 45:17,18<br>46:20 75:18 80:11<br>90:21 95:21 96:3<br>98:16 106:5 124:3<br>134:13 135:24<br>136:7,10 137:3<br><b>better</b> 4:10 9:24 10:19<br>103:3<br><b>beyond</b> 115:6<br><b>bigger</b> 28:20 128:21<br><b>biggest</b> 16:25<br><b>bighead</b> 40:25 118:20<br><b>billion</b> 55:13 64:4<br>112:6 119:11 120:12<br><b>biologists</b> 15:2 57:11<br>60:19 61:2<br><b>bipartisan</b> 64:12<br><b>bit</b> 5:17 9:11 10:9<br>15:21 100:20 109:3<br><b>bitty</b> 89:20<br><b>black</b> 129:1<br><b>block</b> 33:21 56:10<br>102:17<br><b>blocked</b> 102:14<br><b>bloom</b> 53:13<br><b>blue</b> 5:16 6:17<br>51:15,16,18,19<br><b>Bluhm</b> 2:15 4:2,3 10:3<br>47:19 54:5 57:2<br>63:8,18,21 65:6<br>66:4,6,10,14 71:23<br>78:3 79:4 80:20 81:6 | 83:13 84:18 86:23<br>92:21 98:19 99:17<br>101:13 102:4 104:6<br>108:5 110:9 111:8<br>117:16 119:15<br>121:14 123:10<br>126:20 129:5 130:6<br>131:22 136:16<br>137:16<br><b>boat</b> 112:15<br><b>boating</b> 55:14 64:5<br>65:19,20<br><b>Bodary</b> 3:5 52:9<br>54:6,10 57:4<br>62:8,15,20,24 63:5<br><b>bodies</b> 96:5 97:11<br><b>body</b> 12:9 89:20<br><b>book</b> 132:13<br><b>booklet</b> 5:16 6:22<br><b>border</b> 26:9,14 94:2<br><b>borders</b> 53:15<br><b>bore</b> 27:13<br><b>born</b> 60:22<br><b>borne</b> 18:8<br><b>bottom</b> 26:18<br><b>boundaries</b> 53:17<br><b>boundary</b> 30:17 55:17<br><b>box</b> 50:6<br><b>boy</b> 127:13<br><b>branch</b> 120:21<br><b>break</b> 8:9,10,14<br><b>breathe</b> 128:15<br><b>breed</b> 71:3<br><b>breeding</b> 14:4 76:19<br>82:13<br><b>brief</b> 49:2<br><b>briefed</b> 135:9,11,22<br><b>briefly</b> 56:5 | <b>bring</b> 54:25 65:12<br>72:7 129:20 138:13<br><b>bringing</b> 108:4<br><b>brings</b> 5:6<br><b>broadened</b> 74:1<br><b>broader</b> 30:19<br><b>brochure</b> 48:18<br><b>brothers</b> 20:23<br><b>brought</b> 38:23 58:4<br>61:19 120:19 124:6<br><b>brown</b> 24:4<br><b>bubbles</b> 68:17<br><b>Buchsbaum</b> 3:8 65:8<br>66:19,20 72:13<br>75:23 81:16<br><b>budget</b> 14:18 15:25<br>16:2 22:12 119:6<br><b>build</b> 21:10 118:9<br><b>building</b> 18:10<br>21:7,10,14 80:6<br><b>built</b> 115:25 127:18<br><b>bureaucracy</b> 128:25<br><b>Burnham's</b> 90:3<br><b>business</b> 48:19<br><b>busy</b> 47:24<br><b>butchered</b> 66:17,19<br><b>buying</b> 42:4<br><b>bypass</b> 106:4<br><hr/> <p style="text-align: center;">C</p> <hr/> <b>calculus</b> 132:13<br><b>calendar</b> 42:10,17<br>96:23<br><b>Calumet</b> 11:20 12:5<br>13:6 57:22,23<br>120:21 121:19<br><b>Camp</b> 64:11<br><b>Canada</b> 26:10,14 | <b>Canada's</b> 109:7<br><b>Canadian</b> 26:14 90:15<br>109:5 110:11,18<br>111:5 125:1 127:8<br>128:23 130:1<br><b>Canadians</b> 108:19,24<br><b>canal</b> 12:4 14:13<br>37:13,17 39:7,8<br>41:16 52:23 53:2<br>56:2,14 59:7,15<br>116:4,8 118:10<br>127:18<br><b>canals</b> 39:6 69:15<br>70:15 76:15 85:10<br>120:6<br><b>capabilities</b> 28:17<br>92:13,15 106:14,15<br><b>capacity</b> 21:10,15 22:8<br><b>caps</b> 112:3<br><b>captured</b> 86:25 122:3<br><b>card</b> 48:19 51:18 93:1<br><b>cards</b> 51:19 84:21<br><b>career</b> 112:23 114:17<br><b>carefully</b> 55:12<br><b>cargo</b> 83:24<br><b>caring</b> 52:17<br><b>Carl</b> 70:3,19 117:24<br><b>carp</b> 2:4 9:3<br>10:6,11,17,24,25<br>11:3,7,15 12:14<br>14:2,3,15 15:4,13<br>16:4,9,19,25 17:9<br>18:21 23:3 27:16<br>28:2 30:11,20 32:24<br>37:22 40:22,23,25<br>43:22 44:14 55:9,20<br>56:3,10<br>64:2,3,10,15,19<br>65:2,12,16,18,20,22,<br>24 66:25 67:16 68:5<br>70:6,8,24<br>71:11,12,17 72:6 |
|---|--|--|--|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011

Page 6

|   |   |  |   |
|---|---|--|---|
| <p>79:20,22 81:21<br/>82:13 83:1,6<br/>86:2,10,16 87:19<br/>89:4 91:10 92:16<br/>94:15,19 95:9,10<br/>106:1<br/>107:4,10,22,23,25<br/>108:19 109:25<br/>110:19 112:11,12<br/>118:3,17,19,21<br/>119:9 120:19<br/>121:5,17,19,24<br/>122:4,5 123:23<br/>126:7 128:18 129:11<br/>131:1 134:3<br/><br/><b>carry</b> 138:22<br/><b>case</b> 44:7,9 45:16<br/>78:12 113:5 117:9<br/><b>cases</b> 22:9 102:12<br/>103:11<br/><b>cash</b> 127:22,23<br/><b>casual</b> 132:14<br/><b>cat</b> 102:25<br/><b>catch</b> 55:5<br/><b>Catherine</b> 140:2,22<br/><b>Catholic</b> 79:15<br/><b>caught</b> 120:19,24<br/><b>cause</b> 124:22<br/><b>caused</b> 122:14<br/><b>caveat</b> 116:24<br/><b>CAWS</b> 2:11<br/><b>center</b> 12:25 38:18<br/>58:19 100:19<br/><b>central</b> 40:4<br/><b>century</b> 97:8<br/><b>certain</b> 23:22 25:18<br/>78:10 91:24 120:19<br/><b>certainly</b> 16:6 31:6<br/>52:23 53:23 67:21<br/>70:9 72:1,8 74:25<br/>75:24 76:1,9,10 90:5</p> | <p>99:1 101:4,19<br/>106:24 107:19<br/>111:18 122:17<br/>125:19<br/><b>certainty</b> 45:23<br/>122:12<br/><b>CERTIFICATE</b><br/>140:1<br/><b>certify</b> 140:3<br/><b>certitude</b> 126:10<br/><b>cesspool</b> 100:19<br/><b>cetera</b> 52:22<br/><b>chain</b> 65:23<br/><b>challenge</b> 10:11 13:3<br/>90:3<br/><b>challenged</b> 37:23<br/>101:19<br/><b>challenges</b> 11:9 16:25<br/>23:9 63:22<br/><b>challenging</b> 46:19<br/>59:22<br/><b>champion</b> 64:9<br/><b>chance</b> 4:24 5:21 61:4<br/>138:5<br/><b>change</b> 59:18 63:3,4<br/>116:24 117:12<br/>132:24<br/><b>changed</b> 117:1<br/><b>changes</b> 59:17 86:21<br/>125:18 134:3<br/><b>changing</b> 19:8 20:21<br/>80:12<br/><b>channel</b> 32:20,22<br/><b>characteristics</b> 24:22<br/><b>characterization</b> 31:4<br/>38:24 42:13 43:12<br/>44:4 104:8 135:6<br/><b>characterize</b> 125:14<br/><b>charge</b> 13:17 107:12</p> | <p>122:25<br/><b>chart</b> 27:12 43:15<br/><b>check</b> 16:21<br/><b>checked</b> 7:6,9<br/><b>Chicago</b><br/>11:16,18,21,24<br/>12:3,4,24 13:2 17:12<br/>18:3 19:25 25:15,25<br/>27:4 31:18 32:4,5,7<br/>34:23 35:8,22<br/>37:13,16 41:15<br/>52:24 53:10 55:17<br/>64:17,20 69:14 75:3<br/>80:12 82:13<br/>86:5,13,22<br/>88:3,12,13,15,19<br/>89:22 91:1 93:20<br/>94:13 95:6 96:6<br/>97:4,6,9 100:19<br/>101:17 106:1 109:12<br/>112:13 115:18,21<br/>116:4 118:9 120:6<br/>128:21<br/><b>Chicagoland</b><br/>35:8,15,19 36:6 84:6<br/><b>chief</b> 70:4<br/><b>children</b> 55:25<br/><b>Chippewa</b> 113:22<br/><b>choosing</b> 107:9<br/><b>chose</b> 79:17<br/><b>Chuck</b> 3:20 123:13<br/>126:25<br/><b>Churchill</b> 46:20<br/><b>circumstances</b> 39:24<br/><b>cities</b> 77:3 96:17<br/>122:19<br/><b>citizen</b> 127:2<br/><b>citizens</b> 62:21<br/><b>city</b> 35:8,22 41:5<br/>54:11 110:5 127:11<br/>128:23 129:15</p> | <p><b>Cladophora</b> 71:13<br/><b>clamoring</b> 56:8<br/><b>clarify</b> 33:10 57:7<br/>62:1 75:20 136:19<br/><b>clarity</b> 96:12<br/><b>Clean</b> 119:20<br/><b>cleaning</b> 90:9<br/><b>clear</b> 23:24 58:5 59:9<br/>72:14,21,25 73:2<br/>74:20 120:23<br/>132:9,25 134:22<br/><b>clearly</b> 57:24<br/><b>cliff</b> 127:19<br/><b>clock</b> 137:21<br/><b>clog</b> 128:16<br/><b>close</b> 7:25 14:4 22:13<br/>24:20 56:2 57:17,21<br/>59:9 121:9<br/><b>closed</b> 33:16 64:20<br/><b>closely</b> 51:2 73:15<br/><b>closing</b> 6:1 8:1 28:7<br/>33:17 55:17 64:22<br/>86:5 120:12<br/><b>closure</b> 57:9,14,24<br/>89:14<br/><b>clout</b> 110:7<br/><b>Club</b> 81:13,19,24<br/>82:24<br/><b>Club's</b> 81:12<br/><b>Coalition</b> 81:14<br/><b>Coast</b> 59:24,25 60:6<br/><b>coastal</b> 71:15<br/><b>Coastland</b> 46:3<br/><b>code</b> 51:10 57:3 63:18<br/>66:20 79:9 81:11<br/>84:25 93:14 99:22<br/>102:10 108:11<br/>111:13 117:22<br/>119:21 123:16 127:2</p> |
|---|---|--|---|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 7

|                               |                             |                              |                              |
|-------------------------------|-----------------------------|------------------------------|------------------------------|
| <b>codes</b> 33:8             | 49:14,18,22 50:21           | 65:23 68:1 76:11             | 114:13                       |
| <b>co-lead</b> 124:9          | 67:1,6 72:11 78:5           | 107:25 120:14                | <b>conclusions</b> 132:11,24 |
| <b>collaborate</b> 97:14      | 79:3 92:23 98:21            | <b>completing</b> 42:12      | <b>concur</b> 124:5 125:12   |
| 137:10                        | 102:1 106:22 115:1          | <b>complex</b> 25:1 45:22,23 | <b>condition</b> 22:4 88:23  |
| <b>collaborating</b> 36:20    | 123:9 130:17,22             | 46:2,6 97:7 132:15           | <b>conditions</b> 34:14      |
| <b>collaboratively</b> 27:15  | 135:8,13 138:11             | <b>complexity</b> 26:25      | 38:19 61:9                   |
| 129:10                        | <b>commerce</b> 54:19       | 45:25                        | <b>conducted</b> 64:14       |
| <b>collapse</b> 112:2         | 55:18                       | <b>complicated</b> 75:2      | <b>conducting</b> 42:7 113:6 |
| <b>collect</b> 97:24          | <b>commercial</b> 53:6      | 116:19                       | <b>conference</b> 35:2       |
| <b>collecting</b> 125:2       | 83:23,24 84:2 97:2          | <b>compliment</b> 97:16,19   | <b>confidence</b> 18:19      |
| <b>collection</b> 83:15 84:15 | <b>commission</b> 70:2,20   | <b>comply</b> 26:23 41:20    | 23:22 44:12 46:12            |
| 86:7,8 87:8 124:20            | 77:2 78:14 90:16            | <b>component</b> 38:14       | 61:3 91:16                   |
| <b>collectively</b> 18:19     | 93:13,25 95:15              | <b>composed</b> 20:10        | <b>confident</b> 45:20 46:9  |
| <b>college</b> 66:8           | 96:16 98:10,11              | <b>comprehensive</b> 10:22   | 59:24 115:20                 |
| <b>colleges</b> 53:22,23      | 110:25 122:19               | 90:18                        | <b>confirm</b> 58:19         |
| <b>Collier</b> 140:2,22       | 124:11,25 130:2             | <b>computer</b> 52:3         | <b>conflicting</b> 97:21     |
| <b>color</b> 33:8 50:9,11     | 136:5 140:25                | <b>computers</b> 49:20       | <b>confusing</b> 116:19      |
| 91:25 92:1                    | <b>commit</b> 82:4          | <b>comrades</b> 93:23        | <b>Congress</b> 21:21        |
| <b>combination</b> 22:12      | <b>commitment</b> 10:21     | <b>concentrated</b> 15:9     | 22:1,15 67:15                |
| 39:23 41:2                    | 17:2 107:5,20               | <b>concept</b> 113:23        | 68:2,11 69:10 72:22          |
| <b>combined</b> 61:11         | <b>committed</b> 30:2       | <b>concern</b> 12:24 23:4    | 74:3 75:14                   |
| <b>comes</b> 11:18            | 45:11,12 78:13              | 25:20 38:16 62:20            | 77:12,14,17 100:11           |
| <b>comfortable</b> 93:5       | <b>Committee</b> 13:15,20   | 63:25 70:22 73:19            | 103:8,9 105:18               |
| <b>coming</b> 13:13 14:22     | 129:12                      | 95:15 96:7                   | 106:19                       |
| 17:21 28:8 36:24              | <b>committees</b> 73:22     | 102:18,19 109:20             | <b>congressional</b> 100:7   |
| 72:13 93:15 94:20             | <b>common</b> 55:5 94:3     | 117:15 123:22                | 121:6 123:6                  |
| 95:10 98:10 100:21            | 109:25                      | <b>concerned</b> 14:15 15:6  | <b>Congressman</b> 64:11     |
| 101:2 107:3 131:2             | <b>communications</b>       | 30:17 56:21 81:19            | <b>connect</b> 12:12         |
| <b>Commander</b> 2:7          | 130:3                       | 85:3 92:11 94:18             | <b>connected</b> 110:24      |
| 9:6,19,21                     | <b>communities</b> 21:9     | <b>concerning</b> 112:8,12   | <b>connecting</b> 12:12      |
| <b>comment</b> 5:23           | <b>Community</b> 63:16      | <b>concerns</b> 8:13 46:16   | 85:11                        |
| 8:5,6,12,19,20                | <b>company</b> 112:24       | 47:7 60:1 64:7 74:22         | <b>connection</b> 13:25      |
| 48:18,25                      | <b>compares</b> 45:24       | 75:1 76:1 81:24              | 25:14                        |
| 49:6,7,15,18,25 50:7          | <b>compete</b> 55:3,21      | 109:14 130:16                | <b>connections</b> 12:4      |
| 51:4 86:6 110:10              | <b>competition</b> 55:8,9   | <b>conclude</b> 122:9        | 25:13,17 39:5                |
| 137:24                        | <b>complete</b> 38:24 42:16 | <b>concluded</b> 57:12       | <b>Connie</b> 3:4 52:13      |
| <b>commented</b> 67:5         | 69:5 118:13 135:5           | 139:8                        | <b>consequence</b> 110:6     |
| <b>comments</b> 5:22,24       | <b>completed</b> 12:18      | <b>concludes</b> 115:1       | <b>consequences</b> 18:8,9   |
| 7:10,15,23 8:18               | 14:17 59:11 71:21           | <b>conclusion</b> 82:24      | 88:19                        |
| 17:16 19:15 44:11             | 82:15 100:6 117:3           |                              |                              |
|                               | <b>completely</b> 33:18     |                              |                              |

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 8

|  |  |  |   |
|--|--|--|---|
| <p><b>conservation</b> 41:6<br/>94:3</p> <p><b>consider</b> 53:16,25<br/>69:2 74:7,8 76:4<br/>78:6,11 80:6</p> <p><b>consideration</b> 78:8</p> <p><b>considerations</b> 67:23</p> <p><b>considered</b> 42:15 78:9<br/>103:15</p> <p><b>considering</b> 68:4,7<br/>69:1 104:3 106:19<br/>113:25</p> <p><b>consistently</b> 67:14</p> <p><b>consolidated</b> 48:20</p> <p><b>Constance</b> 52:8</p> <p><b>constructed</b> 32:23</p> <p><b>construction</b> 21:14<br/>119:8</p> <p><b>contacted</b> 136:4</p> <p><b>contain</b> 103:2</p> <p><b>contained</b> 54:18</p> <p><b>containing</b> 18:20</p> <p><b>continually</b> 118:15</p> <p><b>continue</b> 14:23 15:20<br/>17:8 54:25<br/>69:21,22,23 82:17<br/>113:16 117:10</p> <p><b>continued</b> 30:24 73:17</p> <p><b>continuing</b> 13:3 14:25<br/>15:7,24 17:2 22:14<br/>72:7 83:1</p> <p><b>continuous</b> 121:25</p> <p><b>continuously</b> 20:3<br/>27:5</p> <p><b>contrary</b> 17:23 132:15</p> <p><b>control</b> 10:18 17:9,24<br/>18:1 33:6 83:22 84:9<br/>96:1 105:7 118:20</p> <p><b>controlled</b> 33:10,11</p> | <p>103:11</p> <p><b>controls</b> 31:13 32:16<br/>36:4</p> <p><b>convenience</b> 49:20</p> <p><b>convenient</b> 98:12</p> <p><b>converge</b> 12:5</p> <p><b>conversations</b> 78:16</p> <p><b>cooperating</b> 27:18,22</p> <p><b>cooperation</b> 96:22</p> <p><b>coordinating</b> 13:15,19<br/>20:8 129:12</p> <p><b>coordination</b> 31:1<br/>135:18</p> <p><b>copies</b> 7:1,2</p> <p><b>copy</b> 80:21,25</p> <p><b>Corps</b> 1:11 2:9 4:4<br/>6:23 7:19 9:7,9<br/>12:2,18 13:7 14:18<br/>17:24 21:2,13,22<br/>28:15 32:5 34:3<br/>41:17 42:6 45:24<br/>48:12 49:8 54:13<br/>56:9,11 64:7 66:8<br/>67:13,17 76:3 78:19<br/>81:21,25<br/>82:4,6,18,25 88:6<br/>91:24 92:14 94:9<br/>96:21 97:18 98:5,6<br/>99:13 103:5,11<br/>105:16 107:1<br/>118:2,8,13,16,23<br/>119:4,5 128:4<br/>129:14 131:9 135:8</p> <p><b>correct</b> 18:3 34:18<br/>86:20 115:4,8</p> <p><b>correcting</b> 88:21</p> <p><b>corrective</b> 114:4</p> <p><b>correlates</b> 43:16</p> <p><b>co-sponsored</b> 118:7</p> <p><b>cost</b> 75:10,11 76:4<br/>78:6,7,8,9 80:16</p> | <p>86:18 87:10<br/>89:19,21,22 90:5,6<br/>112:10 120:12</p> <p><b>costly</b> 88:20</p> <p><b>costs</b> 67:9<br/>68:8,18,19,21 76:7<br/>77:6 89:12,13<br/>112:18,22 123:1,3</p> <p><b>cottage</b> 108:15,22<br/>110:1</p> <p><b>cottager</b> 109:16</p> <p><b>council</b> 2:5 9:4 54:11<br/>123:18,25 129:10</p> <p><b>counsel</b> 140:8,11</p> <p><b>count</b> 65:25</p> <p><b>countries</b> 21:1,9</p> <p><b>country</b> 21:11,12<br/>94:23 95:1,23</p> <p><b>county</b> 41:5</p> <p><b>couple</b> 12:19 16:17<br/>22:16 32:1 56:6 57:7<br/>85:1 86:12 91:8<br/>109:15 121:21</p> <p><b>course</b> 53:20 68:19<br/>94:17</p> <p><b>cover</b> 25:7 67:2 74:1</p> <p><b>covered</b> 85:19</p> <p><b>covering</b> 67:2</p> <p><b>Cragg</b> 3:9 66:18<br/>79:5,8,11,12</p> <p><b>crannies</b> 60:23</p> <p><b>create</b> 82:19 103:25</p> <p><b>created</b> 12:9</p> <p><b>creation</b> 64:16</p> <p><b>credentials</b> 136:22</p> <p><b>credit</b> 18:6</p> <p><b>Creek</b> 52:14</p> <p><b>Crest</b> 1:13</p> | <p><b>criteria</b> 131:17</p> <p><b>critical</b> 55:24 64:8<br/>96:2</p> <p><b>criticism</b> 128:22</p> <p><b>criticisms</b> 46:16</p> <p><b>cross</b> 39:10</p> <p><b>crossing</b> 116:10</p> <p><b>crucial</b> 44:19</p> <p><b>cultural</b> 129:22</p> <p><b>cure</b> 128:13</p> <p><b>current</b> 36:9 57:20<br/>59:6 60:12 61:10<br/>73:16 96:10 120:20</p> <p><b>currently</b> 19:6,20<br/>20:10 33:20 57:13<br/>59:17 60:15 81:18<br/>91:17 112:20</p> <p><b>curved</b> 80:9</p> <p><b>cut</b> 135:16</p> <p><b>cutoff</b> 138:19</p> <p><b>cycle</b> 29:23 44:5<br/>125:23</p> <hr/> <p style="text-align: center;"><b>D</b></p> <hr/> <p><b>dad</b> 85:9</p> <p><b>Dam</b> 121:21,23</p> <p><b>damage</b> 110:2</p> <p><b>Damaschke</b> 3:10 79:7<br/>81:7,10</p> <p><b>D-a-m-a-s-c-h-k-e</b><br/>81:11</p> <p><b>DAMASCHKE</b> 83:14<br/>84:17</p> <p><b>Dame</b> 79:13</p> <p><b>dams</b> 18:12<br/>104:12,14,15</p> <p><b>dangerous</b> 80:7</p> <p><b>dangers</b> 65:12</p> <p><b>Daniel</b> 90:3</p> |
|--|--|--|---|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 9

|   |  |   |   |
|---|--|---|---|
| <p><b>Darcy</b> 73:22 78:13<br/>105:22,23</p> <p><b>dark</b> 24:7</p> <p><b>dashed</b> 24:15</p> <p><b>data</b> 29:2,4,9,10,12,16<br/>46:23 83:15,20,23<br/>84:15 86:7,8 87:8,23<br/>97:14,25 99:6<br/>124:20,21<br/>125:1,2,5,17,24</p> <p><b>date</b> 82:16 138:18,19</p> <p><b>daughters</b> 20:23</p> <p><b>Dave</b> 2:11 9:8<br/>19:17,24 27:4<br/>31:15,19 37:2 43:17<br/>64:11 88:8</p> <p><b>David</b> 3:13 93:9 99:21</p> <p><b>day</b> 9:23 17:16 128:20</p> <p><b>days</b> 38:8 41:25</p> <p><b>DC</b> 129:1</p> <p><b>dead</b> 85:20 100:22</p> <p><b>deal</b> 13:3 92:16<br/>101:25 121:1</p> <p><b>dealing</b> 10:10</p> <p><b>dealt</b> 11:8</p> <p><b>death</b> 128:2</p> <p><b>debate</b> 96:10 118:5</p> <p><b>Debbie</b> 63:16</p> <p><b>debt-ridden</b> 75:6</p> <p><b>decade</b> 95:11</p> <p><b>December</b> 15:8 42:25</p> <p><b>decide</b> 75:19 106:21<br/>125:5</p> <p><b>decided</b> 41:11 133:9</p> <p><b>decision</b> 57:17<br/>75:11,18 91:3 123:5</p> <p><b>decisions</b> 75:15<br/>112:21</p> | <p>134:1,5,19,21,23</p> <p><b>decisive</b> 43:9,11 64:23<br/>105:19</p> <p><b>decline</b> 55:7</p> <p><b>deep</b> 53:12</p> <p><b>defend</b> 21:2 134:19</p> <p><b>defined</b> 35:20 68:16</p> <p><b>definitely</b> 4:9 36:24<br/>43:6 45:4 73:3 92:18<br/>99:2,4 105:14 126:9<br/>138:3</p> <p><b>definition</b> 67:20</p> <p><b>definitive</b> 57:9</p> <p><b>degree</b> 23:19</p> <p><b>delay</b> 76:18 119:11</p> <p><b>delayed</b> 47:4</p> <p><b>delays</b> 56:1</p> <p><b>delivered</b> 82:12</p> <p><b>democracy</b> 105:15</p> <p><b>demonstrated</b> 52:18</p> <p><b>demonstration</b> 58:11<br/>116:1,2,22</p> <p><b>D-e-n</b> 126:25</p> <p><b>dent</b> 120:17</p> <p><b>Denton</b> 3:20 123:13<br/>126:22,25</p> <p><b>deny</b> 58:20</p> <p><b>Department</b> 41:10<br/>110:12</p> <p><b>Departments</b> 13:18<br/>31:2 107:21</p> <p><b>depend</b> 83:3</p> <p><b>depending</b> 22:14<br/>25:18 29:12 93:3</p> <p><b>depletion</b> 112:1</p> <p><b>deployed</b> 20:24 21:5</p> <p><b>depopulate</b> 88:12</p> | <p>89:22</p> <p><b>depopulating</b> 88:18<br/>90:7</p> <p><b>depth</b> 40:16</p> <p><b>Deputy</b> 19:20</p> <p><b>Derek</b> 113:21</p> <p><b>Derosier</b> 9:21,25</p> <p><b>Des</b> 14:11,15 106:5</p> <p><b>describe</b> 105:1 113:12</p> <p><b>described</b> 129:23</p> <p><b>describes</b> 113:10,16</p> <p><b>design</b> 42:3 58:19<br/>59:10 80:7,22,25</p> <p><b>designed</b> 5:21 6:17<br/>24:2 68:5</p> <p><b>designing</b> 58:9</p> <p><b>desirable</b> 55:6</p> <p><b>desire</b> 53:13</p> <p><b>desk</b> 139:2</p> <p><b>despite</b> 121:25</p> <p><b>destroyed</b> 65:24 85:25</p> <p><b>destruction</b> 91:9</p> <p><b>destructive</b> 80:17</p> <p><b>detail</b> 13:24</p> <p><b>detailed</b> 32:7 82:21</p> <p><b>details</b> 14:6 19:3 20:7<br/>23:7 25:8 43:14,16<br/>116:18 132:6 137:13</p> <p><b>detected</b> 40:22</p> <p><b>detection</b> 15:17</p> <p><b>deter</b> 58:17 59:1</p> <p><b>determination</b> 57:9</p> <p><b>determine</b> 16:11 31:3<br/>41:12</p> <p><b>determined</b> 11:11</p> <p><b>determining</b> 84:12</p> | <p><b>deterred</b> 59:5</p> <p><b>Detroit</b> 9:16,21 19:21<br/>128:5</p> <p><b>devastate</b> 65:13,19,23<br/>79:21</p> <p><b>develop</b> 10:14 11:4<br/>29:3,5 42:4 45:12<br/>125:24 131:14</p> <p><b>developed</b> 10:23 11:23<br/>12:4 18:4 88:11 97:8<br/>107:22</p> <p><b>developing</b> 44:15<br/>131:15</p> <p><b>development</b> 42:24<br/>72:3 109:23</p> <p><b>develops</b> 29:12,16</p> <p><b>devise</b> 46:10</p> <p><b>devoid</b> 113:6</p> <p><b>dial</b> 100:20 101:6</p> <p><b>dialogue</b> 74:4</p> <p><b>dictates</b> 63:4</p> <p><b>dictionary</b> 23:11</p> <p><b>die</b> 66:1</p> <p><b>difference</b> 25:3,4</p> <p><b>different</b> 33:8 36:4<br/>38:22 39:4 47:22<br/>68:1 69:1 76:6,7<br/>90:12 103:22 129:13</p> <p><b>difficult</b> 61:12,14<br/>102:21 103:25 104:9<br/>132:7,15</p> <p><b>dilapidated</b> 128:7</p> <p><b>dilemma</b> 136:17<br/>137:17</p> <p><b>dimensions</b> 121:22</p> <p><b>direct</b> 78:17 118:23<br/>128:12 131:7</p> <p><b>directing</b> 20:6</p> <p><b>direction</b> 135:23</p> |
|---|--|---|---|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 10

|   |   |  |  |
|---|---|--|--|
| <p>140:6</p> <p><b>directions</b> 35:17 38:22</p> <p><b>directly</b> 13:17 49:21</p> <p><b>director</b> 2:4 9:4 63:15<br/>67:4 93:13 106:24<br/>123:17</p> <p><b>disagreement</b> 62:9</p> <p><b>disappointed</b> 114:7<br/>127:7</p> <p><b>discharge</b> 34:20,24<br/>35:6 88:9</p> <p><b>disconnect</b> 111:17</p> <p><b>discourse</b> 86:6</p> <p><b>discuss</b> 29:11 118:5</p> <p><b>discussion</b> 10:12<br/>18:16 82:19 101:14<br/>137:18</p> <p><b>discussions</b> 101:16</p> <p><b>disease</b> 12:2 128:14</p> <p><b>dispersal</b> 118:9,14<br/>119:9</p> <p><b>disrespect</b> 127:4</p> <p><b>disrupt</b> 16:8</p> <p><b>dissemination</b> 132:22</p> <p><b>distance</b> 11:17 109:4</p> <p><b>distribute</b> 48:13</p> <p><b>distributed</b> 42:14</p> <p><b>district</b> 4:4<br/>9:17,18,19,22 18:5<br/>19:21 32:5 35:2 88:7</p> <p><b>ditches</b> 39:10,12</p> <p><b>divide</b> 24:18,20 38:1,2<br/>39:3,11,13,14 40:17<br/>104:17</p> <p><b>division</b> 2:8 9:7 21:4<br/>37:23</p> <p><b>DMASCHKE</b> 81:10</p> <p><b>DNA</b> 70:9 134:6</p> | <p><b>DNR</b> 41:23 106:24</p> <p><b>DNRs</b> 38:17 135:9</p> <p><b>document</b> 138:16</p> <p><b>documentation</b><br/>8:21,23 138:18</p> <p><b>documents</b> 48:14</p> <p><b>dollar</b> 55:13 114:11<br/>120:16</p> <p><b>dollars</b> 13:7 45:5 54:2</p> <p><b>done</b> 7:2 19:4 30:1<br/>31:1,17 41:16 43:16<br/>45:24 46:10 58:8<br/>59:3,23 62:7 69:16<br/>75:5 76:16 77:19,25<br/>81:4 90:12 98:2<br/>100:10,11 113:2<br/>125:19 129:2 130:22<br/>132:11 133:10</p> <p><b>door</b> 7:7 105:11</p> <p><b>Doss</b> 3:12 84:22<br/>93:7,12</p> <p><b>D-o-s-s</b> 93:12</p> <p><b>DOSS</b> 93:11</p> <p><b>doubt</b> 95:7</p> <p><b>downriver</b> 103:14</p> <p><b>downstream</b> 40:21<br/>105:3</p> <p><b>downtown</b> 13:1 35:18</p> <p><b>dozens</b> 20:25</p> <p><b>Dr</b> 58:8,20 59:10<br/>70:3,19</p> <p><b>draft</b> 38:9 42:14 128:1<br/>132:23 135:5,7</p> <p><b>drafted</b> 132:3</p> <p><b>drafting</b> 133:5,10</p> <p><b>drain</b> 12:6</p> <p><b>Drainage</b> 12:7</p> <p><b>drains</b> 123:20,21</p> | <p><b>dramatically</b> 107:24</p> <p><b>draw</b> 16:14 132:11</p> <p><b>drink</b> 127:14</p> <p><b>drinking</b> 83:4 89:20</p> <p><b>drool</b> 130:17</p> <p><b>drop</b> 5:25</p> <p><b>due</b> 35:20 138:18</p> <p><b>dummying</b> 116:20</p> <p><b>dunes</b> 85:14</p> <p><b>during</b> 4:21 5:1 6:12<br/>8:10,14,19 39:15<br/>49:23 82:20 104:8</p> <p><b>duty</b> 127:17</p> <p><b>dynamic</b> 134:11</p> <hr/> <p style="text-align: center;">E</p> <hr/> <p><b>Eagle</b> 1:12 39:22<br/>40:12,24 42:3 44:4,7<br/>106:12 115:19</p> <p><b>earlier</b> 35:13 84:6<br/>88:8 102:20 110:5<br/>132:6</p> <p><b>early</b> 15:17</p> <p><b>earth</b> 111:24 112:4</p> <p><b>earth's</b> 112:8</p> <p><b>easiest</b> 93:6</p> <p><b>East</b> 113:20 119:22</p> <p><b>easy</b> 113:2</p> <p><b>eat</b> 70:16 71:12<br/>101:23,24</p> <p><b>eaten</b> 60:22</p> <p><b>echo</b> 81:15 96:7</p> <p><b>ecological</b> 95:17 96:13<br/>97:1 98:16 121:11<br/>122:23</p> <p><b>ecologically</b> 95:24<br/>96:4 97:11</p> <p><b>ecology</b> 30:16 97:3</p> | <p><b>economic</b> 53:6 84:7<br/>88:19 94:6<br/>112:19,22</p> <p><b>economically</b> 84:14</p> <p><b>economics</b> 112:16,18</p> <p><b>economy</b> 119:12</p> <p><b>ecosystem</b> 11:5 46:2<br/>54:18 64:5 111:22</p> <p><b>eDNA</b> 15:7,13,15,17<br/>16:17 70:10<br/>122:7,8,9,11,13</p> <p><b>effective</b> 18:20 19:12<br/>44:14 57:10 58:13<br/>106:10 115:21<br/>116:17 118:16</p> <p><b>effectively</b> 17:5 59:1</p> <p><b>effectiveness</b> 73:11<br/>117:2</p> <p><b>efficacy</b> 30:1 133:13</p> <p><b>efficiently</b> 22:8</p> <p><b>effort</b> 7:20 64:11<br/>99:12 108:3</p> <p><b>efforts</b> 6:8,25 7:17<br/>18:18 20:8 21:14<br/>26:13 37:13 43:24<br/>98:25 119:10<br/>122:21,22</p> <p><b>eggs</b> 71:8</p> <p><b>eight</b> 41:21 94:2 95:18<br/>119:17 123:11</p> <p><b>eighth</b> 81:8 84:19</p> <p><b>eight-state</b> 93:18</p> <p><b>either</b> 8:14,23 18:23<br/>21:24 51:18 61:22<br/>65:18 93:5</p> <p><b>elaborate</b> 83:14</p> <p><b>electric</b> 12:15,17<br/>14:24 17:7 32:23<br/>36:9 56:12 60:15<br/>65:16 68:18 70:7</p> |
|---|---|--|--|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011

Page 11

|   |  |   |  |
|---|--|---|--|
| <p>80:6,8 95:25 119:8<br/> <b>electrical</b> 37:17 61:10<br/> 130:20,24 131:1<br/> 133:24<br/> <b>electricity</b> 12:20 59:21<br/> 61:12 114:11<br/> <b>electro-fishing</b> 14:25<br/> 15:12<br/> <b>electronic</b> 114:15,16<br/> 116:7<br/> <b>elements</b> 26:16<br/> <b>eliminated</b> 7:18 54:23<br/> <b>else</b> 15:11,20 109:14<br/> 137:22<br/> <b>E-mail</b> 48:11,13<br/> <b>emergency</b> 54:1<br/> <b>emphasize</b> 18:14<br/> 44:10 45:16 57:19<br/> 110:17<br/> <b>emphasizing</b> 57:16<br/> <b>employed</b> 140:8,11<br/> <b>employee</b> 78:20<br/> 140:10<br/> <b>en</b> 45:12<br/> <b>enable</b> 71:17<br/> <b>encompasses</b> 24:12<br/> <b>encourage</b> 8:23<br/> <b>encouragement</b> 46:16<br/> <b>encouraging</b> 76:25<br/> <b>endangered</b> 89:18<br/> <b>enemy</b> 25:24 26:1 73:7<br/> <b>engage</b> 61:22 83:2<br/> <b>engaged</b> 36:23 74:4<br/> 82:18<br/> <b>engineered</b> 21:11<br/> 23:14 32:19<br/> <b>engineering</b> 18:6,7<br/> 58:19</p> | <p><b>engineers</b> 1:11 2:9 4:4<br/> 6:24 9:7,9 12:2 13:8<br/> 14:18 17:24 21:2<br/> 28:16 32:5 34:3<br/> 41:17 42:6 45:24<br/> 54:14 56:9 66:9 80:6<br/> 81:21 82:1,4,18,25<br/> 88:6 91:24 92:14<br/> 96:21 97:18 98:5<br/> 99:13 103:6<br/> 118:2,16 128:4<br/> 129:14 135:9<br/> <b>enhance</b> 97:12 118:13<br/> <b>enhancing</b> 104:20<br/> <b>enjoy</b> 65:15 79:25<br/> 80:2<br/> <b>enjoyable</b> 139:6<br/> <b>enjoyment</b> 55:14<br/> <b>enormous</b> 24:14<br/> 88:9,19 89:21 110:6<br/> <b>enter</b> 5:23 49:18,20<br/> 102:14<br/> <b>entered</b> 56:25 138:16<br/> <b>entering</b> 102:18<br/> 103:13 118:11,17<br/> 123:23<br/> <b>entire</b> 23:7 35:8,19<br/> 64:5 65:14 74:1<br/> 93:20<br/> <b>entirely</b> 120:21<br/> <b>entities</b> 96:21 129:22<br/> <b>entry</b> 103:15<br/> <b>environment</b> 94:6<br/> 112:21<br/> <b>environmental</b> 2:5 9:4<br/> 26:19,21,24 106:8<br/> 129:11 134:6<br/> <b>EPA</b> 27:18 43:7<br/> <b>equal</b> 50:16<br/> <b>equally</b> 49:23 50:1</p> | <p><b>era</b> 37:18<br/> <b>eradicate</b> 16:9 76:23<br/> 107:25<br/> <b>eradication</b> 76:22<br/> 101:16<br/> <b>erected</b> 41:15<br/> <b>Erie</b> 14:2 39:7 52:23<br/> 53:1 123:21<br/> <b>Ernie</b> 27:19<br/> <b>especially</b> 28:22 83:7<br/> 98:25 120:16 138:5<br/> <b>essentially</b> 33:25<br/> 85:10 86:15<br/> <b>establish</b> 28:3 76:19<br/> 84:14 86:16 89:3,4<br/> <b>established</b> 14:4 15:5<br/> 89:11 131:12<br/> <b>establishment</b> 11:10<br/> 82:12<br/> <b>estimation</b> 121:3<br/> <b>et</b> 52:22<br/> <b>evaluate</b> 23:19 60:9<br/> 78:23 96:18 104:10<br/> <b>evaluating</b> 83:25 97:2<br/> <b>evaluation</b> 104:13<br/> <b>evaluations</b> 110:16<br/> <b>evening</b> 5:12 50:19<br/> 139:6<br/> <b>event</b> 17:23 118:2<br/> <b>events</b> 25:18 35:15<br/> 39:15 40:8 48:16<br/> <b>eventual</b> 113:7<br/> <b>eventually</b> 95:1<br/> <b>Everglades</b> 46:1<br/> <b>everybody</b> 9:15 10:1<br/> 14:19 17:20 49:11<br/> 50:16 70:17 77:21<br/> 109:14 134:17 139:7<br/> <b>everyone</b> 10:8 31:24</p> | <p>36:23 49:10,12<br/> 119:24 129:20<br/> <b>everything</b> 41:21<br/> <b>Everywhere</b> 65:22<br/> <b>evidence</b> 18:25<br/> 19:9,10 122:13<br/> 133:23 134:6<br/> <b>evolved</b> 122:8<br/> <b>evolves</b> 22:14 125:18<br/> 134:23<br/> <b>evolving</b> 106:16<br/> <b>exact</b> 29:25 121:22<br/> 138:9<br/> <b>exactly</b> 84:12 105:5,10<br/> <b>examined</b> 57:15<br/> 102:17<br/> <b>example</b> 27:25 70:8<br/> 87:14 102:25 106:6<br/> <b>exceeds</b> 45:25<br/> <b>excellent</b> 72:12 100:1<br/> 107:3 108:5 123:10<br/> 125:12 136:16<br/> 137:16<br/> <b>exceptionally</b> 29:19<br/> <b>excited</b> 94:10<br/> <b>exclusion</b> 72:19<br/> <b>excuse</b> 4:21 15:24<br/> <b>execute</b> 26:24 46:10<br/> 105:25 106:3 126:2<br/> 134:15<br/> <b>executed</b> 21:25 23:14<br/> 73:9 74:13<br/> <b>executing</b> 19:6 75:1<br/> 122:20<br/> <b>Executive</b> 123:17<br/> <b>exempt</b> 136:6<br/> <b>exercises</b> 110:22<br/> <b>exist</b> 38:1 39:14 88:17<br/> 104:16 112:19</p> |
|---|--|---|--|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011



|   |   |  |   |
|---|---|--|---|
| <p><b>existence</b> 33:20</p> <p><b>existing</b> 18:12 116:2,3</p> <p><b>exists</b> 112:20</p> <p><b>exotic</b> 79:17</p> <p><b>expect</b> 40:8,16 42:9 90:23</p> <p><b>expedite</b> 82:25 96:14 98:8</p> <p><b>expedited</b> 75:4 105:24 119:1</p> <p><b>expedites</b> 81:22</p> <p><b>expeditions</b> 122:1</p> <p><b>expensive</b> 75:6 76:8 78:9</p> <p><b>experience</b> 23:13 48:4 73:4 85:2</p> <p><b>expert</b> 73:14 131:12,16 135:20 136:7,22 137:3</p> <p><b>expertise</b> 28:18 53:23 78:21</p> <p><b>experts</b> 19:16 34:3 38:12,19 90:20 132:8 137:1</p> <p><b>expired</b> 50:11</p> <p><b>expires</b> 140:25</p> <p><b>explain</b> 114:6 115:24</p> <p><b>extended</b> 73:24</p> <p><b>extends</b> 55:16</p> <p><b>extensively</b> 14:24</p> <p><b>extent</b> 67:19,24,25 68:15 72:16 99:6 120:8</p> <p><b>external</b> 134:8,9</p> <p><b>extract</b> 122:10</p> <p><b>extraordinarily</b> 46:2 75:5</p> <p><b>extras</b> 139:3</p> | <p><b>extremely</b> 61:3 88:20</p> <hr/> <p>F</p> <hr/> <p><b>FACA</b> 136:3,6</p> <p><b>F-A-C-A</b> 136:4</p> <p><b>face</b> 63:23</p> <p><b>Facebook</b> 47:12</p> <p><b>faces</b> 31:25 48:1,3</p> <p><b>facilitate</b> 38:5</p> <p><b>facilities</b> 4:18</p> <p><b>facility</b> 9:23 128:7</p> <p><b>facing</b> 118:4</p> <p><b>fact</b> 19:2 27:14 28:2 37:21 66:23 71:5 72:22 74:7 78:19 100:25 116:10,16 122:13</p> <p><b>fail</b> 82:6</p> <p><b>fails</b> 80:11</p> <p><b>failure</b> 68:13</p> <p><b>fair</b> 50:16</p> <p><b>fairly</b> 12:3 24:23 41:16 109:23 121:9</p> <p><b>fall</b> 14:7 113:20</p> <p><b>familiar</b> 4:18 52:23 98:6</p> <p><b>family</b> 36:20 52:25 53:1 85:9</p> <p><b>famous</b> 30:11</p> <p><b>fantastic</b> 65:15 80:2</p> <p><b>FAQ</b> 6:3</p> <p><b>farmers</b> 53:8</p> <p><b>farms</b> 53:2</p> <p><b>farther</b> 9:12 107:9,24</p> <p><b>fashion</b> 52:5</p> <p><b>fast</b> 14:20 16:19 131:8,10</p> | <p><b>Fat</b> 130:12</p> <p><b>fathers</b> 20:24</p> <p><b>father's</b> 53:1</p> <p><b>fear</b> 30:11 37:21,22 113:5</p> <p><b>feasibility</b> 42:7 67:8,15 68:8 77:10</p> <p><b>feasible</b> 74:8</p> <p><b>feat</b> 18:6,7</p> <p><b>feature</b> 33:3</p> <p><b>February</b> 47:3</p> <p><b>federal</b> 11:3 13:13 16:1 17:3 27:14,21 34:4 36:20 44:13 45:18 64:12 99:14 105:20</p> <p><b>Federation</b> 67:4 81:16 102:9 130:10</p> <p><b>feedback</b> 80:23 81:1</p> <p><b>feel</b> 4:21 10:18 22:10 31:3 45:20 50:15 95:12 96:1,3 109:5 124:5 127:22 139:1</p> <p><b>feet</b> 40:18 79:23</p> <p><b>fence</b> 14:13,17 42:1 65:17 68:18 70:7,11,14 80:6,8,10,11 106:12 131:1 133:24</p> <p><b>field</b> 60:15 61:8</p> <p><b>fields</b> 12:20</p> <p><b>fifth</b> 54:17 79:13 80:18</p> <p><b>figure</b> 15:20 30:22 31:12 115:12</p> <p><b>figures</b> 90:5</p> <p><b>figuring</b> 70:5</p> <p><b>fill</b> 6:11,15</p> <p><b>filled</b> 6:13</p> | <p><b>film</b> 115:8</p> <p><b>final</b> 29:20 69:15,19,20 100:5 132:4</p> <p><b>finalize</b> 69:11,12</p> <p><b>finalized</b> 42:16</p> <p><b>Finally</b> 70:1</p> <p><b>financially</b> 17:2 140:12</p> <p><b>finding</b> 109:3</p> <p><b>fine</b> 61:17 66:19 69:8 71:12 86:5 127:20</p> <p><b>finish</b> 43:6 44:23 50:14</p> <p><b>finished</b> 50:14</p> <p><b>finishes</b> 84:20</p> <p><b>fire</b> 128:8,9</p> <p><b>first</b> 7:13 8:5 9:24 10:20 16:1 21:23 27:2 30:21 37:18 46:14 48:9 51:24 52:7 54:3,12 57:8 58:10,21 59:13 62:12 67:8 70:23 72:14 76:12 77:25 78:5 84:22 86:17 87:8 90:22 92:22 105:21 114:11,18 115:5,12,25 116:22 118:1 119:23 121:18 126:3 127:3,7,18</p> <p><b>fiscal</b> 119:5</p> <p><b>fish</b> 12:21 14:13 15:1,19 16:9 18:21 26:5 27:17 30:2,12 31:12 38:12 42:2 44:2,15 55:22 56:12 57:11 58:3,14,17 59:2,3 60:13,19,21,23,24 61:1,2,4,9,13,25 65:25 70:10,23</p> |
|---|---|--|---|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 13

|   |   |   |   |
|---|---|---|---|
| <p>73:10 79:21<br/>80:7,9,15,17 90:20<br/>100:13,15,17,20,22,<br/>23 101:2,6,17,23<br/>108:1 109:19 113:18<br/>114:12,15,19,24<br/>115:24 116:7,8,10<br/>117:6,8 120:25<br/>122:2,3,4,6,10,12<br/>127:12,25 128:17,20<br/>134:4</p> <p><b>fisheries</b> 83:25 84:3<br/>87:15 90:16 110:11<br/>112:2 136:5</p> <p><b>fishery</b> 55:13 110:25</p> <p><b>fishing</b> 53:5 55:5 64:4<br/>79:25 119:11 120:11<br/>122:1</p> <p><b>fit</b> 4:11</p> <p><b>five</b> 32:11,19,21 33:4<br/>42:3 59:4 69:5,11,23<br/>71:20 76:21 101:8<br/>108:7 111:9 114:25<br/>119:3 121:20 125:7</p> <p><b>five-year</b> 56:9 113:6<br/>124:18 125:4</p> <p><b>fix</b> 12:2</p> <p><b>fixed</b> 63:3</p> <p><b>fixing</b> 65:16</p> <p><b>flat</b> 24:23,25 102:21</p> <p><b>flexibility</b> 103:6</p> <p><b>floaters</b> 26:5</p> <p><b>flood</b> 14:14 35:11,24<br/>36:11 84:5</p> <p><b>flooding</b> 12:23 13:9<br/>35:18</p> <p><b>floodwater</b> 13:1,4</p> <p><b>flow</b> 32:20,21,22<br/>34:21,23 35:5,17<br/>39:2 65:17 80:12<br/>86:21,22 88:22</p> | <p>102:22 127:23</p> <p><b>flowed</b> 11:18</p> <p><b>flowing</b> 11:22 40:5,6</p> <p><b>flows</b> 25:3,14 40:1,3<br/>87:17 91:5 129:3</p> <p><b>focus</b> 11:15 20:1,2,10<br/>24:18 25:22 27:2,5,7<br/>48:24 58:24 67:1<br/>72:18 96:5,9 100:6<br/>121:7,8 126:3</p> <p><b>focused</b> 25:24 67:6</p> <p><b>FOIA</b> 132:18,19 133:3</p> <p><b>folks</b> 4:2 9:10,17 21:5<br/>34:20 35:1 38:18<br/>47:20 51:20 81:3<br/>84:20 92:23 94:24<br/>96:8 111:16 127:4<br/>129:7 135:8,14,20<br/>136:17 137:17</p> <p><b>follow-on</b> 58:18 61:24</p> <p><b>follow-up</b> 61:21</p> <p><b>food</b> 16:10 55:4<br/>65:23,25 71:12,16</p> <p><b>footprint</b> 112:3 114:3</p> <p><b>forbid</b> 100:10</p> <p><b>force</b> 70:4</p> <p><b>Ford</b> 123:20</p> <p><b>forecast</b> 4:9</p> <p><b>forecasting</b> 34:13</p> <p><b>foregoing</b> 140:3,4</p> <p><b>foresee</b> 29:13</p> <p><b>forget</b> 85:23</p> <p><b>Forgive</b> 99:2</p> <p><b>fork</b> 32:21</p> <p><b>form</b> 6:10 8:24<br/>46:19,20 48:18<br/>49:2,19,25 123:6<br/>135:7</p> <p><b>formal</b> 49:3 134:15</p> | <p>135:12</p> <p><b>formally</b> 27:23</p> <p><b>formed</b> 40:10 94:1<br/>124:1</p> <p><b>former</b> 39:6 78:19<br/>98:5</p> <p><b>forms</b> 49:22</p> <p><b>Fort</b> 14:4 39:22<br/>40:1,3,7,11 41:5<br/>128:5</p> <p><b>forth</b> 21:16 29:23</p> <p><b>forum</b> 49:24</p> <p><b>forums</b> 82:20 87:12</p> <p><b>forward</b> 17:15,17<br/>27:17 34:12 36:22<br/>43:10 46:25<br/>47:14,16 51:10 72:7<br/>78:15 82:1 88:2<br/>99:9,11,14<br/>106:15,20 113:24<br/>114:5,19 119:7<br/>125:23 135:24</p> <p><b>fouled</b> 115:6</p> <p><b>frankly</b> 88:3 97:20<br/>136:8</p> <p><b>free</b> 4:21 139:1</p> <p><b>freedom</b> 21:2</p> <p><b>frequency</b> 40:15</p> <p><b>frequently</b> 6:4</p> <p><b>freshwater</b> 54:17</p> <p><b>front</b> 8:15 9:2 49:24<br/>138:14</p> <p><b>fruit</b> 53:8</p> <p><b>frustration</b> 111:18</p> <p><b>FUBAR</b> 113:17 115:6</p> <p><b>full</b> 22:7 56:22 59:13<br/>82:5 118:24</p> <p><b>fully</b> 12:17,19<br/>22:8,11,13 119:5</p> | <p><b>fun</b> 80:4</p> <p><b>functioning</b> 12:19</p> <p><b>fund</b> 119:5</p> <p><b>fundamental</b> 18:22<br/>88:25</p> <p><b>funded</b> 15:22<br/>22:8,9,11,13 75:8<br/>106:12 107:14</p> <p><b>funding</b> 22:12 41:24<br/>42:22<br/>43:1,2,4,5,8,10<br/>100:8 105:17 118:13</p> <p><b>funds</b> 100:5 107:15</p> <p><b>funny</b> 85:22</p> <p><b>future</b> 11:6 13:20<br/>22:22 36:25 80:3</p> <p><b>FY11</b> 22:13</p> <p><b>FY12</b> 22:11</p> <hr/> <p style="text-align: center;">G</p> <hr/> <p><b>Gale</b> 3:17 111:10<br/>117:17,22</p> <p><b>Gary</b> 19:18,19 20:6</p> <p><b>gate</b> 105:12</p> <p><b>gather</b> 29:3</p> <p><b>general</b> 2:7 9:5 17:19<br/>24:23 31:21 32:2<br/>33:1 36:22 37:2,20<br/>42:18 48:22 57:5<br/>61:18 62:3,12,19,23<br/>63:1,6 65:5<br/>66:3,5,7,13 72:12<br/>75:23 78:4 80:21<br/>86:24 87:4 89:7,23<br/>91:7 93:16,22 98:20<br/>102:3 104:24 109:23<br/>111:4 115:3,10<br/>121:15 125:11,12<br/>129:25 131:23<br/>133:25 136:15<br/>137:9,15 139:7</p> |
|---|---|---|---|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011

Page 14

|  |  |   |  |
|--|--|---|--|
| <p><b>generated</b> 97:16</p> <p><b>generation</b> 95:13</p> <p><b>generations</b> 80:3<br/>113:23,24,25 114:5</p> <p><b>gentleman's</b> 114:8</p> <p><b>gentlemen</b> 63:13 65:4<br/>100:25</p> <p><b>Geological</b> 27:25</p> <p><b>Georgian</b> 108:17<br/>109:22</p> <p><b>gets</b> 45:22 60:11 92:22<br/>100:11 116:19</p> <p><b>getting</b> 10:24 67:17<br/>68:6 73:5 80:10,15<br/>86:10 89:9,12 92:24<br/>107:22 113:1 132:6</p> <p><b>Gillian</b> 3:15 102:6<br/>108:10</p> <p><b>Gitche</b> 52:22</p> <p><b>given</b> 8:4 40:9,16<br/>49:15 51:18 72:22<br/>78:11 92:5 96:10<br/>121:6 135:19</p> <p><b>gives</b> 33:5</p> <p><b>giving</b> 21:18 108:12</p> <p><b>glad</b> 4:5 64:6 76:2<br/>94:9</p> <p><b>GLMRIS</b> 82:10</p> <p><b>GLMRIS</b> 4:15 5:18<br/>6:25 7:12,17 9:9<br/>18:16 37:10<br/>48:13,17 67:2,8<br/>81:22 82:1,25 95:5<br/>97:18</p> <p><b>Global</b> 111:25</p> <p><b>GLRI</b> 22:12 106:13</p> <p><b>goal</b> 23:24,25 72:21<br/>73:2</p> <p><b>goals</b> 7:13 73:4</p> <p><b>Gobies</b> 55:2</p> | <p><b>God</b> 100:10</p> <p><b>gone</b> 89:17 95:16<br/>127:22</p> <p><b>Goss</b> 2:4 9:3 10:6,8<br/>18:14 19:11 25:15<br/>27:15 35:12 40:20<br/>44:14 61:17 62:1<br/>71:24 87:2 90:2,11<br/>93:16 101:14 102:1<br/>106:11,23 110:10<br/>129:10 136:19,22<br/>137:1,6,14</p> <p><b>gotten</b> 12:18 95:1<br/>104:18,21 135:12</p> <p><b>Govaere</b> 3:17 111:10<br/>117:17,21,22</p> <p><b>government</b> 46:19,21<br/>90:15 110:18 111:5<br/>125:1 130:1 137:4</p> <p><b>government's</b> 110:11</p> <p><b>grabs</b> 5:6</p> <p><b>grade</b> 79:13 80:18<br/>85:6</p> <p><b>graduate</b> 66:7</p> <p><b>Grand</b> 57:23<br/>85:5,12,15,19</p> <p><b>grandchildren</b> 56:1</p> <p><b>grandfather</b> 53:7</p> <p><b>grant</b> 53:21</p> <p><b>grants</b> 53:22</p> <p><b>grapes</b> 53:9</p> <p><b>grass</b> 109:25</p> <p><b>grave</b> 64:3 109:20</p> <p><b>gray</b> 24:11</p> <p><b>great</b> 1:5 2:7 4:14 9:6<br/>10:1,22,24 11:6<br/>14:21 16:25<br/>18:6,7,16 19:14<br/>20:3,15 23:1 24:4,17<br/>31:3,21,25 32:12,25<br/>43:8 44:12 53:7,17</p> | <p>54:15 62:3 63:23<br/>64:5,18<br/>65:12,15,20,24 66:1<br/>67:4 68:6 69:22<br/>70:2,6,20<br/>71:5,7,14,16 74:1<br/>77:1,2,3 78:14<br/>79:18,21,24<br/>80:1,2,16 81:14,17<br/>82:3,8 83:3,4 84:1<br/>85:2,4,7,8,9,11,18<br/>86:1,4,16,17,18<br/>87:19 89:7 90:16,21<br/>93:13,25<br/>94:2,4,6,9,16,22,25<br/>95:14,15,17,22<br/>96:16,17<br/>98:10,11,14,20<br/>102:13,20 103:14<br/>104:24 105:4 106:8<br/>107:13,14 108:19<br/>109:8,10,14,19<br/>110:24 111:22<br/>112:14 113:19<br/>114:21 118:4,17,24<br/>119:2,11 120:5,11<br/>121:5,11 122:19<br/>123:12,23 124:11,25<br/>131:22 136:5 137:15</p> <p><b>greater</b> 97:9</p> <p><b>greatness</b> 85:7</p> <p><b>green</b> 5:10 24:7 50:6</p> <p><b>grew</b> 85:5</p> <p><b>group</b> 79:20 80:5,7<br/>132:1</p> <p><b>groups</b> 90:12 101:20<br/>131:17 132:2 137:7</p> <p><b>GSA</b> 41:24</p> <p><b>guarantee</b> 29:9</p> <p><b>Guard</b> 59:24,25 60:6</p> <p><b>guess</b> 85:3 90:3 121:9<br/>124:24 128:22<br/>135:16</p> | <p><b>guidance</b> 44:13</p> <p><b>guide</b> 34:11</p> <p><b>guidelines</b> 78:10,18</p> <p><b>Gumee</b> 52:22</p> <p><b>guy</b> 114:17</p> <p><b>guys</b> 100:9 130:11<br/>131:5</p> <hr/> <p>H</p> <hr/> <p><b>habitat</b> 16:10<br/>84:11,12</p> <p><b>habitats</b> 84:13</p> <p><b>hair</b> 70:21</p> <p><b>half</b> 5:19 40:18 56:13<br/>59:4 114:21,22<br/>122:1</p> <p><b>half-sheet</b> 5:10</p> <p><b>hallway</b> 4:19 49:19<br/>138:15</p> <p><b>hand</b> 5:5,7 19:20 66:6<br/>74:19 97:23 113:1,3</p> <p><b>handful</b> 96:25 112:15</p> <p><b>handle</b> 31:8 32:21</p> <p><b>hands</b> 137:22</p> <p><b>hang</b> 60:21</p> <p><b>happen</b> 25:23 35:12<br/>66:25 71:9 77:18<br/>78:12 101:9 110:21</p> <p><b>happened</b> 133:15</p> <p><b>happens</b> 65:14</p> <p><b>happy</b> 18:24 47:13<br/>61:22</p> <p><b>Harbor</b> 53:3</p> <p><b>hard</b> 66:21 99:25<br/>103:1 106:15</p> <p><b>harm</b> 54:21</p> <p><b>harms</b> 21:1</p> <p><b>Haven</b> 85:5,12,15,19</p> |
|--|--|---|--|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 15

|   |   |   |   |
|---|---|---|---|
| <p><b>haven't</b> 4:24 6:13<br/>28:24 57:17 73:15<br/>104:18,21 124:16,23<br/>135:12</p> <p><b>having</b> 22:3 53:14<br/>87:12 103:16 105:18<br/>131:1</p> <p><b>head</b> 121:19</p> <p><b>headed</b> 95:12</p> <p><b>heads</b> 41:11</p> <p><b>Healing</b> 81:14</p> <p><b>health</b> 35:23 84:7<br/>121:11 122:23</p> <p><b>hear</b> 6:5,8 9:10 34:11<br/>51:23 65:7 70:13<br/>76:2 77:1 78:2</p> <p><b>heard</b> 33:17 34:17<br/>47:21 50:17,25<br/>52:21 66:23 70:6<br/>86:6 88:8 97:20,23<br/>112:10 113:11<br/>124:16,23,25 137:18</p> <p><b>hearing</b> 85:6 140:3,6,9</p> <p><b>hearings</b> 48:2 64:14</p> <p><b>heavily</b> 75:2</p> <p><b>heavy</b> 112:3 114:3</p> <p><b>heck</b> 100:4</p> <p><b>heel</b> 86:16</p> <p><b>Hello</b> 102:8 123:15</p> <p><b>help</b> 5:12 6:4,17,19<br/>7:9 20:11 21:10,15<br/>26:12 28:13,16 29:3<br/>38:10,11,13,15,19<br/>41:7 46:9 47:1 48:24<br/>50:3,4 51:5,10 53:24<br/>66:9,16 80:13,16<br/>97:16 98:1,8 99:8,13<br/>126:6 136:8 139:1</p> <p><b>helpers</b> 51:2</p> <p><b>helpful</b> 17:14</p> | <p><b>helping</b> 10:11 41:24</p> <p><b>helps</b> 43:22,23 75:20</p> <p><b>herd</b> 16:8</p> <p><b>hereby</b> 140:3</p> <p><b>Herein</b> 112:17</p> <p><b>hereto</b> 140:11</p> <p><b>he's</b> 9:13,21 31:17</p> <p><b>Hi</b> 84:24 99:21 108:10<br/>111:12 126:25 135:3</p> <p><b>Hiawatha</b> 52:21</p> <p><b>hide</b> 60:23</p> <p><b>high</b> 18:19 39:15 98:3</p> <p><b>higher</b> 59:20<br/>60:4,10,16 61:11</p> <p><b>highest</b> 53:10</p> <p><b>highlight</b> 19:18 22:17<br/>25:11 26:7,17 43:20</p> <p><b>highlights</b> 16:3</p> <p><b>highly</b> 132:7</p> <p><b>hire</b> 100:21</p> <p><b>historical</b> 128:5</p> <p><b>historically</b> 52:19</p> <p><b>history</b> 52:17 53:19</p> <p><b>hit</b> 46:8</p> <p><b>hitchhikers</b> 26:5</p> <p><b>hold</b> 15:23</p> <p><b>hole</b> 129:1</p> <p><b>home</b> 81:18,20</p> <p><b>hometown</b> 85:11</p> <p><b>Honorable</b> 113:21</p> <p><b>hope</b> 11:16 20:11<br/>22:10 42:15 75:20<br/>76:9 80:2,16 98:6<br/>99:1 113:3 117:14<br/>135:1</p> <p><b>hopeful</b> 79:1 99:8<br/>122:19</p> | <p><b>hopefully</b> 10:18<br/>16:4,16 17:14 62:5<br/>78:20 107:5</p> <p><b>host</b> 10:1 23:14 26:22<br/>28:17 45:7 60:1</p> <p><b>hosting</b> 7:19</p> <p><b>hotel</b> 112:12</p> <p><b>hour</b> 47:21</p> <p><b>hours</b> 122:2</p> <p><b>House</b> 2:4 9:4 129:10</p> <p><b>huge</b> 16:6</p> <p><b>human</b> 35:23 84:7<br/>109:23</p> <p><b>humanity</b> 112:3,17<br/>114:4</p> <p><b>humanity's</b> 111:25</p> <p><b>humans</b> 55:1</p> <p><b>hundred</b> 11:23 13:7<br/>23:15 24:1 35:4,5<br/>62:24 67:22 71:3<br/>79:22</p> <p><b>hungry</b> 65:25</p> <p><b>Huns</b> 105:11,12</p> <p><b>Huron</b> 1:13 108:18<br/>109:22 123:17,24<br/>124:2 127:15</p> <p><b>hydrants</b> 128:8,10</p> <p><b>hydro</b> 74:24 75:1<br/>122:17</p> <p><b>hydrologic</b> 24:25<br/>36:13 76:14 77:15<br/>118:24 119:1</p> <p><b>hydrological</b> 76:5<br/>77:5,22 96:19 120:5<br/>121:3</p> <hr/> <p style="text-align: center;">I</p> <hr/> <p><b>ice</b> 112:2</p> <p><b>idea</b> 69:4</p> | <p><b>ideal</b> 23:23</p> <p><b>ideas</b> 96:12</p> <p><b>identical</b> 8:3</p> <p><b>identification</b> 135:13</p> <p><b>identified</b> 6:20 11:1<br/>15:2 25:17 28:24<br/>30:25 31:7 39:1,18<br/>67:10,12 102:13<br/>105:5 131:11</p> <p><b>identify</b> 16:13 34:15<br/>36:1 38:20 67:16<br/>76:3 77:4 96:18<br/>131:8</p> <p><b>identifying</b> 96:25</p> <p><b>ignorant</b> 95:11</p> <p><b>ignoring</b> 55:19 112:18</p> <p><b>I'll</b> 5:9 17:16 19:15<br/>33:10,11 37:4 50:2,6<br/>56:25 65:8 67:6 69:4<br/>75:25 85:23 87:4<br/>110:10 114:10 120:9<br/>121:9</p> <p><b>ill-advised</b> 68:12</p> <p><b>illegal</b> 68:10</p> <p><b>Illinois</b> 12:7 52:24<br/>55:18 77:17 95:20<br/>98:14 107:2,5</p> <p><b>I'm</b> 4:3,5 9:1 10:4 13:5<br/>14:20 20:17 25:7<br/>26:17 27:10,11<br/>30:18 32:4 33:16<br/>34:22 47:15 52:13<br/>54:10,13 63:15<br/>66:25 67:4 71:18<br/>74:6,19 75:24 76:2<br/>79:12 86:24 88:3,21<br/>91:21,22 93:12 94:8<br/>102:9 108:12,14,21<br/>109:3,17 111:21,23<br/>116:19 117:23<br/>119:20 120:2,7,21<br/>121:22 122:16<br/>123:17,22 126:25</p> |
|---|---|---|---|

|  |   |  |  |
|--|---|--|--|
| <p>127:1,7 128:20<br/>130:22 133:16<br/>134:1,2 136:2,3,24<br/>137:6,8,11</p> <p><b>imagination</b> 115:9</p> <p><b>imagine</b> 114:10</p> <p><b>immediate</b> 57:11</p> <p><b>immediately</b> 15:12<br/>64:21</p> <p><b>imminent</b> 63:25</p> <p><b>impact</b> 26:20,24<br/>30:15,16 36:8<br/>55:16,24 84:10<br/>90:13 113:25</p> <p><b>impacted</b> 109:24<br/>110:14</p> <p><b>impacts</b> 28:1,7,9<br/>35:16<br/>36:10,15,16,18 60:8<br/>83:21<br/>87:10,18,19,25<br/>89:10 91:14 97:2<br/>123:1,2,3</p> <p><b>impediment</b> 104:10</p> <p><b>implement</b> 41:18<br/>69:24 76:17</p> <p><b>implementation</b> 76:18</p> <p><b>implemented</b> 83:22</p> <p><b>implementing</b> 84:8</p> <p><b>implication</b> 117:7</p> <p><b>importance</b> 95:25</p> <p><b>important</b> 5:20 7:23<br/>8:21 18:15 27:13<br/>28:15 34:6 38:13<br/>41:4 43:18 45:10<br/>48:5,16 58:4,5<br/>61:19,20 68:3 77:24<br/>94:17 95:20 118:5<br/>119:12,25 127:13<br/>138:19</p> <p><b>importantly</b> 34:9</p> | <p><b>impossible</b> 61:8 67:21</p> <p><b>improve</b> 20:12 29:21<br/>73:10</p> <p><b>improved</b> 31:6</p> <p><b>inch</b> 58:17,22 59:8<br/>116:13,15,16</p> <p><b>inches</b> 59:4 60:14</p> <p><b>include</b> 14:25 83:23<br/>89:14 90:13</p> <p><b>included</b> 7:16 129:18</p> <p><b>includes</b> 24:11 59:17<br/>98:4</p> <p><b>including</b> 69:1 95:19<br/>98:14</p> <p><b>inclusion</b> 136:1</p> <p><b>increase</b> 46:12 117:2<br/>126:6 136:7</p> <p><b>incredible</b> 77:21</p> <p><b>incredibly</b> 71:20<br/>77:24 112:3</p> <p><b>incremental</b> 29:21<br/>43:4 45:12 73:8,9<br/>126:6</p> <p><b>incrementally</b> 46:9,11</p> <p><b>indeed</b> 49:9</p> <p><b>independent</b> 134:7,9</p> <p><b>independently</b> 78:24</p> <p><b>Indiana</b> 11:21<br/>13:5,9,25 14:4,5<br/>39:23 41:9,23 55:19<br/>106:24</p> <p><b>indicate</b> 50:9</p> <p><b>indicated</b> 8:2 42:21<br/>49:1 58:16 116:9,16<br/>125:18 132:6</p> <p><b>indicates</b> 19:9,10<br/>21:20 60:13 71:15<br/>122:7,10</p> <p><b>indications</b> 117:11</p> | <p><b>individual</b> 135:17,21</p> <p><b>individuals</b> 128:20<br/>136:20 137:7,19</p> <p><b>industry</b> 55:13 57:16<br/>59:19 64:4,5<br/>112:15,16 119:12<br/>120:11,12</p> <p><b>ineffective</b> 45:3</p> <p><b>influence</b> 111:25</p> <p><b>influenced</b> 61:9</p> <p><b>inform</b> 26:12 43:23<br/>99:7 122:20 136:8</p> <p><b>informally</b> 27:24</p> <p><b>information</b> 6:5,18<br/>7:14 10:15 28:5<br/>34:10 45:1 46:23<br/>47:1,6,9 48:10,20<br/>52:12 60:5 62:2 63:4<br/>72:8 75:14 87:21<br/>97:15 116:16 122:11<br/>126:14 131:25<br/>132:2,5,18,20<br/>133:4,21<br/>134:10,20,23 137:9<br/>138:25</p> <p><b>informed</b> 73:12 130:1</p> <p><b>informs</b> 73:4</p> <p><b>infrastructure</b> 21:7</p> <p><b>inhabited</b> 88:18</p> <p><b>initial</b> 43:1 44:11</p> <p><b>initially</b> 25:22 38:23</p> <p><b>initiated</b> 39:8 90:15<br/>96:18 110:12</p> <p><b>Initiative</b> 43:9 96:17<br/>106:9</p> <p><b>injurious</b> 118:21</p> <p><b>inlands</b> 58:15</p> <p><b>inner</b> 127:11 128:23</p> <p><b>input</b> 46:15 135:23</p> <p><b>inside</b> 5:22 91:25</p> | <p><b>insignificant</b> 7:17</p> <p><b>instead</b> 128:1</p> <p><b>in-stream</b> 104:11</p> <p><b>insufficient</b> 22:4</p> <p><b>intend</b> 25:21 26:12,24<br/>29:23 62:6 74:7 99:1<br/>117:12 122:17<br/>125:14,20 126:10</p> <p><b>intended</b> 54:19</p> <p><b>intent</b> 82:2 137:2</p> <p><b>interact</b> 32:14 82:20</p> <p><b>interaction</b> 47:14<br/>55:24</p> <p><b>interbasin</b> 1:6 4:15<br/>18:17 19:14 38:5<br/>74:2 118:25</p> <p><b>interest</b> 43:19 94:3<br/>107:19 129:18<br/>133:12</p> <p><b>interested</b> 7:21 26:10<br/>48:11 53:19 65:1<br/>99:5 140:12</p> <p><b>interesting</b> 27:12<br/>32:17 62:17 75:21</p> <p><b>interests</b> 92:1</p> <p><b>interim</b> 44:6,7 46:8<br/>69:7,12 101:14<br/>133:13</p> <p><b>interject</b> 133:20</p> <p><b>intermediate</b> 125:6</p> <p><b>internal</b> 38:18<br/>133:6,10 134:7,9<br/>135:8</p> <p><b>internally</b> 132:25</p> <p><b>international</b> 53:15<br/>55:16 79:16 109:7<br/>130:2</p> <p><b>interpret</b> 67:18</p> <p><b>interpretation</b> 67:20</p> |
|--|---|--|--|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 17

|  |   |  |   |
|--|---|--|---|
| <b>intrastate</b> 93:25<br><b>intrinsic</b> 84:14<br><b>introduce</b> 9:1 17:18<br>36:13<br><b>introduced</b> 54:21 55:2<br>64:14<br><b>introduction</b> 55:12<br>81:23 83:1 94:12<br>95:9 118:6<br><b>introductions</b> 54:20<br><b>intuitively</b> 132:13<br><b>invaded</b> 56:4<br><b>invasion</b> 56:3 83:5<br>110:19<br><b>invasive</b> 46:12 54:16<br>63:23 64:19<br>81:18,20 82:2,5,7<br>83:6 92:7<br>94:15,20,21 95:2,23<br>102:14,17 105:8<br>109:24 118:3,8,10<br>131:2<br><b>invent</b> 22:21<br><b>inventory</b> 31:10 37:25<br>104:15<br><b>inventorying</b> 34:13<br><b>invertebrate</b> 30:14<br><b>invested</b> 119:7<br><b>investment</b> 91:2,6<br><b>invitations</b> 27:21<br><b>invited</b> 13:19<br><b>involve</b> 136:13<br><b>involved</b> 13:8 15:3<br>20:6,7 41:9 100:13<br>107:16 135:21<br><b>involvement</b> 18:10,11<br>48:16 110:11<br><b>Iraq</b> 20:25 21:6,17<br><b>isn't</b> 64:22 70:16 | 86:2,3 89:20 109:5<br><b>issue</b> 29:18 61:7 64:10<br>74:4 86:7,10 96:15<br>120:1,18 121:2<br>129:17 134:18<br><b>issues</b> 7:16,17 37:15<br>53:6 59:12 73:12<br>84:5 92:14 94:2<br>124:4,12 136:2<br>137:4<br><b>it's</b> 9:23,25 10:13<br>12:9,18 13:2 20:18<br>24:5,19,23 27:8<br>30:12 31:25 33:14<br>35:21 37:8 42:4<br>45:7,10 46:6 47:11<br>51:6 56:13,22 57:4<br>58:4 61:7,18,20<br>62:11 66:20 67:9,21<br>68:6,12 69:4<br>72:17,18,23 73:20<br>74:16 75:4,5,6<br>76:2,16,17,18,21<br>77:23 78:8 81:10<br>87:17 88:1 90:17<br>92:18 94:17 95:20<br>99:6 100:25 101:6<br>102:21 103:1,25<br>106:15 108:14,25<br>111:2,22 113:10<br>115:17 120:16<br>121:19<br>124:4,7,15,22<br>127:17,23 128:7,15<br>129:1 130:12<br>132:7,12,13,14,15<br>135:7 137:10 139:5<br><b>I've</b> 26:18 27:2 51:16<br>52:3,15 57:15 62:13<br>66:8 86:6 99:23<br>100:12,13 104:4<br>109:25 111:15<br>112:10 125:17<br>130:16 136:17<br>137:20 | <hr/> <b>J</b><br><hr/> <b>James</b> 3:11 81:8 84:24<br><b>January</b> 42:25 96:24<br><b>jargon</b> 26:2<br><b>job</b> 56:22 66:8,22<br>68:10 100:2 107:3<br>112:24 113:1<br><b>jobs</b> 21:8 83:4 112:15<br>119:12<br><b>John</b> 2:4,7 9:3,5 17:19<br>18:2 61:16 62:4<br>87:1,5 91:7 106:22<br><b>join</b> 13:19<br><b>Joint</b> 130:2<br><b>Joseph</b> 40:1 53:9<br><b>Journal</b> 56:6<br><b>judgment</b> 78:24 123:6<br><b>judgments</b> 29:25<br>134:21<br><b>juice</b> 59:21<br><b>July</b> 41:3<br><b>jump</b> 79:23<br><b>jumped</b> 39:21<br><b>jumping</b> 30:11<br><b>juncture</b> 55:25<br><b>June</b> 37:22 43:1<br><b>jurisdiction</b> 106:25<br>107:1<br><b>justify</b> 55:19<br><hr/> <b>K</b><br><hr/> <b>Kevin</b> 2:15 4:3 34:7<br><b>key</b> 14:7 131:17<br>133:21 135:22<br><b>k-e-y</b> 119:20<br><b>kid</b> 113:11<br><b>kill</b> 101:6,25 | <b>killed</b> 89:17 122:3<br><b>killing</b> 100:16<br><b>kilometer</b> 71:4<br><b>kinds</b> 30:13 75:7<br>92:14 103:22,23<br><b>knew</b> 37:19 38:19<br>113:11<br><b>knowledge</b> 18:11<br>28:21,23 125:18<br>134:13<br><b>known</b> 37:10,12<br><b>Kyle</b> 3:9 66:18 79:12<br><hr/> <b>L</b><br><hr/> <b>lab</b> 16:18<br><b>label</b> 7:8<br><b>laboratory</b> 19:3 61:8<br>116:12<br><b>Lacey</b> 118:21<br><b>lake</b> 11:22,25<br>12:1,11,12,14 13:2<br>14:2,16,24 17:7<br>28:2,3 32:10 53:4,9<br>54:22 56:14 64:17<br>71:15 86:11,17<br>89:4,21 90:1,7,14<br>91:4,9 92:17 97:4<br>101:11 106:2 108:18<br>109:22 118:11<br>120:22 121:19,20,23<br>123:20,21<br><b>lakes</b> 1:5 2:7 4:15 9:6<br>10:22,24 11:6 17:1<br>18:17 19:14 20:4<br>23:1 24:5,17 31:3<br>32:12,25 43:8 53:17<br>54:15,19 56:3 63:23<br>64:5,19<br>65:13,14,15,19,21,2<br>4 66:1 67:4 68:6<br>69:23 70:2,6,8,14,20<br>71:5,7,14,16 74:1<br>76:20 77:2,3 78:14 |
|--|---|--|---|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011

Page 18

|   |   |  |  |
|---|---|--|--|
| <p>79:18,21,24<br/>80:1,2,4,16<br/>81:14,17,20 82:3,8<br/>83:3,4 84:1<br/>85:3,4,7,8,9,11,18<br/>86:1,4,16,17,19<br/>87:19 89:17<br/>90:16,21 93:13,25<br/>94:2,4,6,9,16,22,25<br/>95:14,15,17,22<br/>96:16,17<br/>98:10,11,14<br/>102:13,21 103:14<br/>105:4 106:8<br/>107:13,14,23 108:19<br/>109:10,14,20 110:24<br/>111:22 112:14<br/>113:19 118:4,18,24<br/>119:2,11 120:5,12<br/>121:5,12 122:19<br/>123:23 124:10,11,25<br/>127:16 136:5</p> <p><b>lakeshore</b> 53:2 85:15</p> <p><b>lampreys</b> 54:21,22</p> <p><b>land</b> 24:4 53:21</p> <p><b>land-grant</b> 53:22</p> <p><b>language</b> 22:17,18<br/>118:12</p> <p><b>Lansing</b> 113:20<br/>119:22</p> <p><b>laptop</b> 49:19</p> <p><b>large</b> 87:2 88:13,15<br/>104:15</p> <p><b>larger</b> 59:4</p> <p><b>largest</b> 40:8,15 95:8<br/>118:3</p> <p><b>larvae</b> 70:24</p> <p><b>last</b> 4:13,14 13:9,25<br/>16:23 17:22 35:2<br/>37:14,22 42:11 47:4<br/>64:15 66:16 70:2<br/>93:12 97:8 113:20<br/>115:23 118:19</p> | <p>126:22</p> <p><b>lastly</b> 6:22 47:9 82:17<br/>138:20</p> <p><b>late</b> 39:8 55:20 56:4<br/>76:21 105:12</p> <p><b>later</b> 17:16 22:18 23:8<br/>62:1</p> <p><b>latest</b> 11:7</p> <p><b>launched</b> 10:12</p> <p><b>Laura</b> 3:19 119:17<br/>123:15</p> <p><b>lavender</b> 6:3</p> <p><b>law</b> 28:10 42:24<br/>59:16,17 78:17 87:9<br/>118:22 122:25<br/>137:13</p> <p><b>Lawrence</b> 96:17</p> <p><b>laws</b> 18:1 26:22 45:7<br/>77:16,17,23 92:11</p> <p><b>lead</b> 41:18 64:11<br/>104:17 107:3</p> <p><b>leads</b> 70:11 129:11</p> <p><b>leaking</b> 128:8</p> <p><b>learn</b> 7:22 10:9<br/>85:23,24</p> <p><b>learned</b> 70:2</p> <p><b>least</b> 37:17 42:11 54:2<br/>69:14 70:11 78:19<br/>84:14 85:19 87:20<br/>111:18 122:5 132:1</p> <p><b>leave</b> 16:23 56:25<br/>138:14,23</p> <p><b>led</b> 41:2</p> <p><b>left-hand</b> 30:10 33:23</p> <p><b>legal</b> 134:14</p> <p><b>legislation</b> 73:15<br/>118:22</p> <p><b>legislatures</b> 77:15</p> <p><b>lengthy</b> 130:17</p> | <p><b>Leon</b> 70:3 72:9</p> <p><b>less</b> 20:6 41:25<br/>60:20,21 119:13</p> <p><b>let's</b> 25:6 37:3 66:6<br/>89:24 95:13 101:5,6<br/>114:9</p> <p><b>letter</b> 73:22 115:12</p> <p><b>letting</b> 80:18</p> <p><b>level</b> 64:12 74:4 75:12<br/>98:3 104:10 127:5</p> <p><b>Levin</b> 117:24 118:7,15<br/>120:11</p> <p><b>Levin's</b> 118:19</p> <p><b>lie</b> 84:13</p> <p><b>lies</b> 112:17</p> <p><b>life</b> 35:23 42:3 52:16<br/>64:8 83:5 84:8 86:5</p> <p><b>lifetime</b> 80:3</p> <p><b>likelihood</b> 126:7</p> <p><b>likely</b> 16:12 75:5,11<br/>91:14 126:1,5</p> <p><b>Likewise</b> 38:17</p> <p><b>limit</b> 49:12 71:4 120:9</p> <p><b>limitations</b> 132:10,12</p> <p><b>line</b> 24:15 47:3<br/>51:15,16,22 52:1</p> <p><b>lines</b> 91:25 92:1,2</p> <p><b>list</b> 38:14,15 46:22<br/>48:12,13 51:21 54:6<br/>63:9 84:22 99:18<br/>108:6 118:21 126:22<br/>130:7</p> <p><b>listed</b> 26:4,17 30:17<br/>43:19 46:24</p> <p><b>listened</b> 85:1</p> <p><b>listening</b> 34:21 35:1<br/>53:11 109:11</p> <p><b>lists</b> 13:16</p> | <p><b>literally</b> 88:12</p> <p><b>literature</b> 43:21</p> <p><b>litigation</b> 131:4<br/>134:18</p> <p><b>little</b> 4:8 5:15,17 9:10<br/>10:9,18 11:14 13:5<br/>15:21 16:16 17:13<br/>37:10,19 38:7 41:7<br/>48:3,19 57:22 89:19<br/>100:3,20 109:3<br/>116:6</p> <p><b>live</b> 15:4 24:24 55:23<br/>108:12 109:6,9<br/>122:10,11</p> <p><b>lived</b> 52:15 85:16 86:4</p> <p><b>living</b> 128:15</p> <p><b>lo</b> 41:24</p> <p><b>lobby</b> 4:23 8:15</p> <p><b>local</b> 21:9 34:5 36:21<br/>38:19</p> <p><b>locate</b> 15:13</p> <p><b>located</b> 50:19,24</p> <p><b>location</b> 26:1 40:23<br/>42:8 60:24 121:17<br/>138:23</p> <p><b>locations</b> 39:2,11,17<br/>77:4 135:19</p> <p><b>lock</b> 12:25 57:9,14,24<br/>89:14 121:21,23</p> <p><b>locks</b> 18:11 33:14,18<br/>35:13 57:13,17,21<br/>64:20,22 120:13</p> <p><b>logic</b> 113:7</p> <p><b>long</b> 14:14 21:15 38:2<br/>56:19 69:3,24 71:1<br/>73:21 74:15 76:16<br/>82:10 86:19 96:2<br/>103:17 105:15<br/>109:18 110:14 119:3<br/>125:7 126:5,11</p> <p><b>longer</b> 76:17,18 88:17</p> |
|---|---|--|--|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011

Page 19

|   |   |   |   |
|---|---|---|---|
| <p><b>long-term</b> 17:9 42:9<br/>64:21 95:21 98:16<br/>112:18 123:7</p> <p><b>lose</b> 83:3</p> <p><b>lost</b> 99:3</p> <p><b>lot</b> 9:25 10:8 14:3<br/>15:18,19 17:17<br/>30:19 34:17<br/>37:12,13 66:14<br/>71:14,16 77:11<br/>88:17 100:21,22<br/>104:11 107:14 109:1<br/>116:18 124:11 125:2<br/>133:11</p> <p><b>lots</b> 17:11 21:22 22:6<br/>25:18 104:12 124:9</p> <p><b>Louisiana</b> 46:3</p> <p><b>love</b> 21:18</p> <p><b>low</b> 61:3</p> <p><b>lower</b> 68:20,21,22</p> <p><b>lowlands</b> 102:24</p> <hr/> <p style="text-align: center;"><b>M</b></p> <hr/> <p><b>ma'am</b> 111:7 125:11<br/>126:13</p> <p><b>Macomb</b> 127:19</p> <p><b>main</b> 25:24 120:18</p> <p><b>maintain</b> 32:23 35:24<br/>83:5 97:12</p> <p><b>maintenance</b> 117:5</p> <p><b>Major</b> 2:7 9:5</p> <p><b>majority</b> 124:3</p> <p><b>makers</b> 75:12,18</p> <p><b>man</b> 122:2</p> <p><b>manage</b> 19:25 49:6<br/>50:3,4 57:13 124:14</p> <p><b>managed</b> 55:12</p> <p><b>management</b> 35:11,25<br/>36:12 52:20 84:5<br/>94:4 97:3,5</p> | <p><b>Manager</b> 2:11,13<br/>9:9,14 19:21,22<br/>32:3,4 129:13</p> <p><b>mandate</b> 121:6</p> <p><b>manmade</b> 102:15</p> <p><b>manner</b> 134:16</p> <p><b>map</b> 11:16 12:16,25<br/>14:12 24:4 32:7<br/>104:15</p> <p><b>mapping</b> 84:12</p> <p><b>Marc</b> 3:21 126:23<br/>130:9 135:3</p> <p><b>march</b> 1:9 6:1 7:25<br/>127:19 138:18</p> <p><b>Marist</b> 79:13</p> <p><b>mark</b> 38:8 58:8</p> <p><b>Marriott</b> 1:12</p> <p><b>marsh</b> 39:22 40:12,24<br/>42:3 44:4,7 106:12<br/>110:1 115:19</p> <p><b>marshy</b> 88:15</p> <p><b>Mary's</b> 40:3</p> <p><b>massive</b> 91:10</p> <p><b>material</b> 5:1 97:15<br/>138:25</p> <p><b>materials</b> 5:2,16 6:21<br/>67:14 100:1 138:20</p> <p><b>Matt</b> 3:12 84:22 93:12</p> <p><b>matter</b> 1:11 24:2<br/>30:15 44:24,25<br/>62:22 69:12 72:17<br/>76:20</p> <p><b>matures</b> 29:10</p> <p><b>Maumee</b> 14:1 40:10</p> <p><b>maximum</b> 67:19 68:15</p> <p><b>may</b> 23:21 25:5 30:7<br/>31:4,5 34:9,20 35:12<br/>44:25 45:3 46:24<br/>58:16 60:14 65:19<br/>67:2 72:22 75:16,18</p> | <p>79:24 81:20<br/>83:12,22 91:19 92:1<br/>94:20 107:17 116:14<br/>117:8 122:6 126:14</p> <p><b>maybe</b> 28:24 29:13,20<br/>35:21 36:10 66:16<br/>72:17 113:13 130:21<br/>131:7 138:3</p> <p><b>McCallahan</b> 3:6 54:7<br/>63:9,12,15,20,22</p> <p><b>McGregor</b> 108:14,16<br/>109:21</p> <p><b>McIntosh</b> 3:11 81:8<br/>84:19,23,24,25 87:5<br/>89:2,15,24 90:9</p> <p><b>mean</b> 28:10 34:14<br/>57:18 70:5 76:10<br/>85:15,25 88:17,21<br/>89:24 101:8 105:15<br/>110:4 127:4 128:14</p> <p><b>meaning</b> 23:11</p> <p><b>meanings</b> 23:12</p> <p><b>means</b> 25:7 67:9 68:4<br/>69:20 70:25 71:3<br/>82:14 86:5 104:20<br/>113:12 128:15 133:1</p> <p><b>meant</b> 37:10 74:6<br/>113:12 132:5</p> <p><b>meantime</b> 56:11<br/>101:10</p> <p><b>measure</b> 29:21 73:20</p> <p><b>measures</b> 68:9,17 96:2<br/>105:20</p> <p><b>mechanism</b> 88:11<br/>130:2</p> <p><b>mechanisms</b> 105:7</p> <p><b>media</b> 33:17 47:11<br/>48:23</p> <p><b>medium</b> 49:25</p> <p><b>meet</b> 39:25</p> <p><b>meeting</b> 1:1</p> | <p>4:3,13,14,16,21<br/>5:2,11 7:3,13 8:3,17<br/>10:5 41:3,25 47:3,5<br/>49:1 70:3,20 72:4<br/>81:25 112:12 113:20<br/>130:12 137:14 138:6<br/>139:5,8</p> <p><b>meetings</b> 7:20 29:11<br/>30:24 46:15 47:2<br/>93:16 103:10</p> <p><b>meets</b> 31:14</p> <p><b>Melissa</b> 3:10 79:7<br/>81:10</p> <p><b>melting</b> 112:2</p> <p><b>member</b> 54:11</p> <p><b>members</b> 1:12 2:2<br/>8:17 9:2 21:7 81:13<br/>120:3</p> <p><b>mention</b> 9:19 13:22<br/>27:10 50:18</p> <p><b>mentioned</b> 32:3,18<br/>34:8 35:13 36:19<br/>37:20 39:1 40:20<br/>48:22 86:7 98:3<br/>102:20 103:5 104:4</p> <p><b>messing</b> 75:25</p> <p><b>messy</b> 105:16</p> <p><b>met</b> 129:16</p> <p><b>method</b> 121:4</p> <p><b>Metropolitan</b> 18:5<br/>35:1 88:6</p> <p><b>Michael</b> 2:13 3:5 52:9<br/>54:10</p> <p><b>Michigan</b> 1:8,13<br/>11:22 12:11,14 13:2<br/>14:17,24 17:7 28:2,3<br/>32:10 40:2<br/>52:14,15,19<br/>53:3,8,13,16,24<br/>56:15 64:1,8,13,17<br/>71:15 79:14 81:13<br/>85:5 86:11,17</p> |
|---|---|---|---|

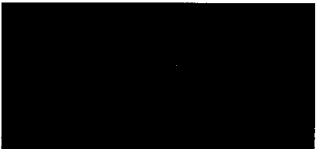
(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011



Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 20

|   |   |   |  |
|---|---|---|--|
| <p>89:4,22 90:1,8<br/>91:4,10 92:17 97:4<br/>106:2 113:22 118:11<br/>119:21 120:3,22<br/>121:21,23 123:21<br/>124:3 135:11 140:24</p> <p><b>microphone</b> 50:23,24<br/>51:1,3,11 75:25<br/>93:3,4,5</p> <p><b>mid</b> 82:15</p> <p><b>middle</b> 11:19 12:15</p> <p><b>midst</b> 9:16</p> <p><b>migrate</b> 25:5 57:24<br/>109:19 126:8</p> <p><b>migrating</b> 105:8 106:1</p> <p><b>migration</b> 92:7 104:21</p> <p><b>Mike</b> 9:13,19 13:23<br/>14:5 19:17 20:5<br/>37:3,6 42:18 43:13<br/>44:3 133:17,18<br/>136:20</p> <p><b>mile</b> 38:1</p>  <p><b>military</b> 26:2 113:9,15</p> <p><b>million</b> 13:7 46:4<br/>119:6,7 120:13</p> <p><b>mind</b> 5:24 14:6 138:7</p> <p><b>minimum</b> 41:21</p> <p><b>Minnesota</b> 24:16<br/>102:25 107:7</p> <p><b>minute</b> 8:9 49:3,12<br/>50:9 85:1</p> <p><b>minutes</b> 10:17 32:1<br/>50:8,10,12,13 67:7<br/>137:21</p> <p><b>miraculous</b> 12:3</p> <p><b>miss</b> 7:11 80:4</p> | <p><b>missed</b> 31:5</p> <p><b>missing</b> 124:16</p> <p><b>Mississippi</b> 1:5 4:15<br/>12:6,7 18:17 19:14<br/>20:4 23:2 24:7,8,13<br/>32:13 74:2 82:3,8<br/>84:1 91:4 95:18<br/>105:4 118:25 119:2<br/>120:6</p> <p><b>Missouri</b> 24:12</p> <p><b>mistake</b> 134:12</p> <p><b>misunderstanding</b><br/>72:17</p> <p><b>mitigate</b> 36:8</p> <p><b>mitigating</b> 86:13</p> <p><b>mitigation</b> 36:17</p> <p><b>mix</b> 32:14</p> <p><b>mixtures</b> 39:4</p> <p><b>modeling</b> 97:15,25</p> <p><b>moderator</b> 2:15 4:3<br/>47:16</p> <p><b>modern</b> 47:9</p> <p><b>modification</b> 104:3</p> <p><b>modifications</b> 125:20</p> <p><b>modified</b> 21:25 123:6</p> <p><b>modify</b> 103:18</p> <p><b>modulate</b> 59:1</p> <p><b>modulated</b> 134:24</p> <p><b>moment</b> 73:19</p> <p><b>money</b> 22:5 103:9,18<br/>106:9,12 107:16<br/>129:3</p> <p><b>monitor</b> 14:23</p> <p><b>monitoring</b> 17:6 119:9<br/>124:9,10</p> <p><b>monitors</b> 116:7</p> <p><b>month</b> 8:1 19:3 47:7<br/>62:2 79:19</p> | <p><b>months</b> 16:1 41:21<br/>60:7 82:15 85:16<br/>112:11 133:8,14</p> <p><b>mothers</b> 20:24</p> <p><b>move</b> 14:19,20<br/>16:11,13 36:23<br/>43:10 51:10 84:21<br/>92:25 99:9,14<br/>102:23 131:9</p> <p><b>movement</b> 82:8 92:7</p> <p><b>moves</b> 26:4 103:24</p> <p><b>moving</b> 10:5 12:14,21<br/>29:22 48:25 82:1</p> <p><b>multi</b> 55:12</p> <p><b>multiple</b> 44:12 67:5<br/>117:7</p> <p><b>multitude</b> 97:9</p> <p><b>municipal</b> 34:23 35:6</p> <p><b>muscles</b> 94:25</p> <p><b>myself</b> 9:17 21:18<br/>100:14 120:8,9<br/>129:13 137:12<br/>138:14</p> <p><b>myths</b> 70:7,13</p> <hr/> <p style="text-align: center;">N</p> <hr/> <p><b>narrow</b> 38:15</p> <p><b>nation</b> 20:19,22 21:16<br/>23:15 46:18</p> <p><b>National</b> 26:21 41:6<br/>67:3 81:16 102:9<br/>118:7 130:10</p> <p><b>native</b> 55:11,22 71:13<br/>113:22 127:9 128:23<br/>129:16</p> <p><b>natural</b> 12:9 13:18<br/>17:25 31:2 39:13<br/>41:10 52:20 88:17<br/>107:20 108:1 112:20<br/>128:17</p> <p><b>naturally</b> 86:22</p> | <p><b>nature</b> 131:8</p> <p><b>navigation</b> 34:17<br/>57:16 59:17,19,25<br/>60:2 83:23,24,25<br/>87:16 97:3</p> <p><b>Navy</b> 11:19</p> <p><b>nearly</b> 38:1 71:1 85:25</p> <p><b>necessarily</b> 112:7<br/>122:24</p> <p><b>necessary</b> 22:3 29:4<br/>71:4,5</p> <p><b>negative</b> 30:14,16 84:9</p> <p><b>negatively</b> 55:15</p> <p><b>neither</b> 55:3 140:7</p> <p><b>NEPA</b> 1:1 4:16 6:1<br/>7:24 8:20 26:20 34:7<br/>41:20 82:23 103:9<br/>138:16</p> <p><b>netted</b> 15:1 16:15<br/>100:15</p> <p><b>netting</b> 15:1,12</p> <p><b>nevertheless</b> 110:6</p> <p><b>news</b> 12:17 48:16</p> <p><b>NGOs</b> 131:17<br/>136:1,13</p> <p><b>nice</b> 4:25 9:23 66:22</p> <p><b>nine</b> 123:13 126:21</p> <p><b>nirvana</b> 74:18</p> <p><b>nonfederal</b> 98:25</p> <p><b>non-governmental</b><br/>41:8</p> <p><b>nooks</b> 60:23</p> <p><b>nor</b> 140:8,12</p> <p><b>normal</b> 67:19 115:5<br/>134:7</p> <p><b>normally</b> 78:8,11</p> <p><b>north</b> 32:9 85:19<br/>121:22</p> |
|---|---|---|--|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 21

|   |  |   |  |
|---|--|---|--|
| <b>northern</b> 14:4 108:17<br><b>northwest</b> 40:6 53:21<br><b>Notary</b> 140:1,23<br><b>note</b> 7:24 8:16 48:9<br>49:17,22 93:1<br><b>noted</b> 95:7 120:11<br><b>nothing</b> 20:16 100:11<br>101:9<br><b>notice</b> 33:7 51:14<br>81:15<br><b>Notre</b> 79:13<br><b>nowhere</b> 111:24<br><b>nuances</b> 25:2<br><b>nuisance</b> 23:1 24:20<br>29:22 31:11 32:16<br>36:3,5 37:15 38:6<br>83:21 84:9<br><hr/> <p style="text-align: center;"><b>O</b></p> <hr/> <b>Obama</b> 10:21 17:1<br><b>objectives</b> 21:16<br><b>obligated</b> 59:15<br><b>obligations</b> 134:15<br><b>O'Brien</b> 121:21,23<br><b>observations</b> 40:25<br><b>observer</b> 132:14<br><b>obstruction</b> 104:14<br><b>obstructions</b><br>104:11,20<br><b>obtain</b> 103:18<br><b>obvious</b> 76:10,11<br>132:12,14<br><b>obviously</b> 18:7 23:3<br>26:10 30:10 35:7<br>44:20 47:4 61:13<br>88:19 133:11<br><b>occur</b> 28:4 39:3<br>40:9,16<br><b>ocean</b> 85:12 111:25 | 112:2<br><b>Oceans</b> 110:12<br><b>October</b> 15:8 140:25<br><b>office</b> 4:5 67:4<br><b>officer</b> 140:2<br><b>official</b> 8:19<br><b>officials</b> 56:11<br><b>offline</b> 8:25<br><b>off-the-shelf</b> 58:11<br><b>oh</b> 45:6<br><b>Ohio</b> 2:8 9:6 24:8 39:7<br>40:4<br><b>O'Keefe</b> 19:19,20<br><b>old</b> 60:21,25 128:5<br><b>oldest</b> 123:25<br><b>ones</b> 26:19 31:7 38:15<br>51:19 75:18,19<br>113:4<br><b>ongoing</b> 94:3<br><b>online</b> 7:6<br><b>on-site</b> 41:3<br><b>Ontario</b> 108:18<br>110:12<br><b>onto</b> 49:21 89:21<br><b>open</b> 6:12 19:8 20:3<br>27:5 72:20<br><b>opened</b> 13:1 33:16<br>35:14<br><b>opening</b> 93:2<br><b>operate</b> 21:12 32:23<br>58:6<br>59:15,18,20,22,25<br><b>operating</b> 19:4,6,8,11<br>56:13 58:3 59:6,7<br>60:10,15 61:25<br>73:17 117:6,11,12<br>130:24<br><b>operation</b> 119:8 | <b>operational</b> 12:17<br><b>opinion</b> 80:19<br><b>opinions</b> 57:12<br><b>opportunities</b> 7:21<br>34:1 48:15<br><b>opportunity</b> 11:11<br>32:14 33:5<br>49:4,11,13,15 50:16<br>82:19 83:7,11<br>102:16 103:3 111:20<br>137:23<br><b>optimal</b> 19:7 45:3 77:7<br><b>option</b> 75:17 76:5,10<br>90:2<br><b>optional</b> 74:15<br><b>options</b> 10:14 17:8<br>22:19 23:20,21 42:7<br>67:10,11 68:5,14<br>69:2 74:6,8,11,23<br>76:4 77:10 90:7 92:6<br>96:18 97:1 125:24<br><b>oral</b> 7:23 8:5,19 48:25<br>137:24<br><b>order</b> 49:10 87:8<br>103:17,18<br><b>orderly</b> 52:5<br><b>orders</b> 21:19 91:23<br>127:20<br><b>organization</b> 27:12<br>41:8 51:8 99:24<br>111:23 124:8 125:8<br>126:13,14 136:8<br><b>organizations</b> 101:18<br>113:5 129:9,13,22<br><b>organized</b> 7:12 8:3<br><b>organizing</b> 27:11<br>118:2 131:16<br><b>orientation</b> 12:10<br><b>original</b> 47:3<br><b>originally</b> 11:17 | <b>others</b> 9:17 25:16<br>44:14 46:24 66:24<br>69:9 77:18 87:5 98:5<br>113:13 122:6<br><b>otherwise</b> 140:12<br><b>ours</b> 109:20<br><b>ourselves</b> 28:19 133:1<br><b>outcome</b> 44:20 113:8<br>140:12<br><b>outflanked</b> 26:1 37:22<br><b>outgo</b> 54:2<br><b>outline</b> 75:10<br><b>outlined</b> 14:22<br><b>outreach</b> 20:8 93:17<br><b>outside</b> 6:16 7:7 18:1<br>25:10 81:3 88:5<br>92:1,2 98:24 111:25<br>136:8<br><b>outstanding</b> 53:8<br>93:17<br><b>overcoming</b> 103:16<br><b>overflowed</b> 13:6<br><b>overpopulate</b> 79:24<br><b>overview</b> 5:16<br><b>owe</b> 55:25<br><b>owners</b> 108:15<br><hr/> <p style="text-align: center;"><b>P</b></p> <hr/> <b>p.m</b> 1:14 8:6,12 139:8<br><b>pace</b> 20:13 99:14<br><b>packet</b> 5:1,3,6,9,10<br><b>packets</b> 138:25<br><b>PAGE</b> 3:2<br><b>pages</b> 140:5<br><b>paid</b> 111:23<br><b>pamphlet</b> 100:3<br><b>panel</b> 1:11 2:2 6:12<br>9:2 49:13,17 50:20 |
|---|--|---|--|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 22

|  |  |  |   |
|--|--|--|---|
| <p>135:20 137:23 138:4</p> <p><b>panelists</b> 8:17</p> <p><b>panels</b> 131:12,16,18<br/>136:23</p> <p><b>paper</b> 5:10,19 44:1</p> <p><b>parallel</b> 14:12</p> <p><b>parameter</b> 58:25</p> <p><b>parameters</b><br/>19:5,6,9,11<br/>58:3,6,12,23,25<br/>59:7,8,13 60:4,10,11<br/>61:25 78:10<br/>116:3,25<br/>117:1,11,12</p> <p><b>participate</b> 135:14</p> <p><b>participates</b> 79:15</p> <p><b>particular</b> 22:11 61:7<br/>88:14 96:14</p> <p><b>particularly</b> 76:14<br/>94:11</p> <p><b>parties</b> 140:9,11</p> <p><b>partners</b> 36:21 99:14</p> <p><b>party</b> 130:13</p> <p><b>pass</b> 116:8 117:8</p> <p><b>passage</b> 103:19</p> <p><b>passed</b> 77:16,17,23</p> <p><b>passenger</b> 83:24</p> <p><b>passion</b> 113:6</p> <p><b>passionate</b> 113:1,3,4</p> <p><b>past</b> 15:1 70:14 79:19<br/>86:21 107:9 120:20</p> <p><b>path</b> 34:11 77:12<br/>113:17</p> <p><b>pathway</b> 14:2 20:3<br/>26:4 27:6 28:22<br/>40:19 94:12 102:18<br/>105:6 135:17</p> <p><b>pathways</b> 2:13 9:13<br/>11:2 17:13 20:5 27:8</p> | <p>30:22,25<br/>37:4,9,11,19,25<br/>38:5,20 39:16 42:12<br/>43:12 57:22 102:12<br/>104:19 115:19<br/>130:20 131:6,21<br/>133:17 135:4,6,10</p> <p><b>Paul</b> 4:4</p> <p><b>pay</b> 86:20 89:5 114:10</p> <p><b>pays</b> 112:25</p> <p><b>Peabody</b> 2:7 9:6 17:19<br/>31:21 32:3 33:1<br/>37:2,20 42:18 57:5<br/>61:18 62:3,12,19,23<br/>63:1,6 65:5<br/>66:3,5,7,13 72:12<br/>78:4 80:21 86:24<br/>87:4 89:7,23 91:7<br/>93:16,22 98:20<br/>102:3 104:24 111:4<br/>115:3,10 121:15<br/>125:11 129:25<br/>131:23 133:25<br/>136:15 137:9,15<br/>139:7</p> <p><b>peaches</b> 53:8</p> <p><b>peer</b> 134:8,9</p> <p><b>Pegg</b> 58:8,20 59:10</p> <p><b>Pennsylvania</b> 135:11</p> <p><b>penny</b> 120:15</p> <p><b>people</b> 13:16,17<br/>17:3,23 45:16 64:1<br/>65:11,25 83:3 85:2<br/>95:7 97:23<br/>100:21,22 107:16<br/>109:1 112:6,13<br/>113:2 124:11</p> <p><b>per</b> 58:17,22 59:8<br/>116:13,14,16 127:19</p> <p><b>perceive</b> 111:16</p> <p><b>percent</b> 23:12,16 24:1<br/>34:21,22 35:4,5<br/>40:14 67:22 108:22</p> | <p>114:19,20,23</p> <p><b>percentage</b> 109:9</p> <p><b>perch</b> 55:3,6</p> <p><b>perfect</b> 29:7 31:21<br/>41:22 44:5 45:11,13<br/>73:5,6 74:17 126:4<br/>134:5</p> <p><b>perfection</b> 23:12</p> <p><b>perhaps</b> 18:23 45:25<br/>53:16 97:24 102:24<br/>122:21</p> <p><b>period</b> 5:23 7:25<br/>8:5,6,12,19 40:16<br/>48:25 49:8,23 50:5<br/>73:25 126:5</p> <p><b>permanent</b> 25:14 42:5<br/>45:11,13 56:2 76:15<br/>95:21 96:3</p> <p><b>permanently</b> 56:10<br/>64:16 69:14 96:4</p> <p><b>permission</b> 103:18</p> <p><b>permits</b> 49:13</p> <p><b>person</b> 49:5 51:25<br/>52:1,7 120:7 128:24</p> <p><b>personal</b> 119:22 127:5</p> <p><b>personally</b> 53:15 81:4</p> <p><b>persons</b> 47:24 48:11<br/>51:25</p> <p><b>perspective</b> 24:25</p> <p><b>phase</b> 92:22</p> <p><b>pheromones</b> 16:14</p> <p><b>photograph</b> 26:6</p> <p><b>photographs</b> 26:6<br/>30:9</p> <p><b>physical</b> 33:14,15,19<br/>121:3</p> <p><b>pick</b> 100:21,23</p> <p><b>picture</b> 10:10</p> <p><b>piece</b> 5:21 79:2</p> | <p><b>pieces</b> 6:18</p> <p><b>Pier</b> 11:19</p> <p><b>pike</b> 128:1</p> <p><b>pilot</b> 116:22</p> <p><b>placed</b> 51:1</p> <p><b>places</b> 77:6 89:16<br/>105:5 118:20</p> <p><b>Plaines</b> 14:11,15 106:5</p> <p><b>plan</b> 14:23 22:13<br/>37:23 38:7,11 42:14<br/>64:16,22 100:5<br/>107:4,21 131:14<br/>135:5,12,17</p> <p><b>planet</b> 46:21<br/>128:15,25</p> <p><b>planned</b> 33:24</p> <p><b>plans</b> 36:4 90:4 118:5</p> <p><b>plant</b> 30:14</p> <p><b>plate</b> 41:23</p> <p><b>Playing</b> 69:22</p> <p><b>plea</b> 112:14,16</p> <p><b>please</b> 7:24 8:16 20:14<br/>21:18 49:17,22 56:2<br/>83:14 87:6</p> <p><b>pleased</b> 94:8,11 96:20</p> <p><b>pleasure</b> 37:8 55:14<br/>112:15</p> <p><b>point</b> 12:23 13:24<br/>15:17<br/>18:3,13,14,18,22<br/>31:15 32:25<br/>33:5,10,11 40:24<br/>58:2,4 59:11 60:12<br/>62:3 70:1 71:19<br/>75:22 76:2 91:21<br/>93:3 103:1,15<br/>104:7,17,18,21,24<br/>105:3,6,9,11,13<br/>106:24 115:15<br/>122:8,12 124:20<br/>125:3 132:21,23</p> |
|--|--|--|---|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011

Page 23

|  |   |  |  |
|--|---|--|--|
| <p>133:20 137:20</p> <p><b>pointed</b> 57:20 72:9<br/>78:17 92:12</p> <p><b>pointing</b> 33:1 71:24</p> <p><b>points</b> 12:11 25:11<br/>32:11,15,19<br/>33:4,7,9,25 57:8<br/>61:19 72:12 75:20<br/>91:8 104:4 105:1<br/>107:9 115:14 121:16<br/>124:18,19 125:12<br/>126:18 130:15<br/>135:22</p> <p><b>poisoned</b> 127:15</p> <p><b>poisoning</b> 54:22</p> <p><b>poisons</b> 54:25</p> <p><b>polar</b> 112:2</p> <p><b>policies</b> 26:22 45:8<br/>78:18</p> <p><b>policy</b> 13:20 21:16<br/>26:21 93:13 95:20<br/>96:10 123:5</p> <p><b>political</b> 110:7</p> <p><b>politically</b> 115:4</p> <p><b>politics</b> 52:24 127:24</p> <p><b>pools</b> 60:25</p> <p><b>poorly</b> 66:17</p> <p><b>POP</b> 108:11</p> <p><b>popping</b> 85:22</p> <p><b>popular</b> 44:8</p> <p><b>populated</b> 92:17</p> <p><b>population</b> 15:5,13<br/>16:5 28:3 40:22<br/>44:15 79:21 109:8,9<br/>112:5</p> <p><b>populations</b> 76:19<br/>82:13 108:1</p> <p><b>portion</b> 48:8 96:9</p> <p><b>portions</b> 88:14</p> | <p><b>portrayal</b> 33:23</p> <p><b>pose</b> 39:18 64:3<br/>104:14</p> <p><b>posed</b> 104:23</p> <p><b>position</b> 19:22 88:4<br/>95:20 97:10 98:24</p> <p><b>positioned</b> 51:1</p> <p><b>positive</b> 18:9</p> <p><b>positives</b> 15:9</p> <p><b>possibilities</b> 101:4</p> <p><b>possibility</b> 122:7</p> <p><b>possible</b> 11:1 20:13<br/>57:14 67:19,25<br/>68:15 72:16 96:8<br/>97:13 98:1 99:6<br/>105:13 120:4 135:25<br/>136:10</p> <p><b>possibly</b> 107:24</p> <p><b>post</b> 47:7</p> <p><b>postal</b> 108:11</p> <p><b>postpone</b> 17:22</p> <p><b>potential</b> 16:24<br/>28:1,22 32:16 33:6<br/>35:15,21 37:25<br/>39:1,5,15,21 56:13<br/>77:4 83:20,21 84:7<br/>87:18 94:12,14 95:9<br/>101:16 102:12,17<br/>103:13,15 104:19<br/>105:6 112:1 131:12</p> <p><b>potentially</b> 29:11<br/>36:7,14 37:21 39:3<br/>40:18 93:19 97:20<br/>126:2</p> <p><b>pounds</b> 79:22</p> <p><b>power</b> 56:20,21</p> <p><b>practical</b> 25:7</p> <p><b>preamble</b> 115:15</p> <p><b>preceded</b> 114:1</p> <p><b>precise</b> 43:3</p> | <p><b>precisely</b> 62:14</p> <p><b>precision</b> 91:15</p> <p><b>pre-civilized</b> 88:23</p> <p><b>precondition</b> 88:1</p> <p><b>predator</b> 128:17</p> <p><b>pre-decisional</b> 132:20</p> <p><b>predetermine</b> 30:4</p> <p><b>predetermined</b><br/>44:19,22</p> <p><b>predict</b> 102:22</p> <p><b>preliminary</b> 38:3<br/>69:18 72:2 104:8</p> <p><b>premise</b> 91:12</p> <p><b>premises</b> 91:9</p> <p><b>prepared</b> 63:17<br/>108:25 138:12</p> <p><b>preregistered</b> 51:20<br/>84:21 92:23</p> <p><b>presen</b> 8:8</p> <p><b>presence</b> 122:9</p> <p><b>present</b> 7:14 62:17<br/>94:19 122:5</p> <p><b>presentation</b> 6:9 8:4<br/>10:6 49:3 67:13 73:1<br/>99:23 115:16 137:24<br/>138:9</p> <p><b>presentations</b> 63:14<br/>119:24</p> <p><b>presented</b> 8:18</p> <p><b>president</b> 22:1</p> <p><b>president's</b> 22:12<br/>54:14</p> <p><b>press</b> 62:13 65:1</p> <p><b>presume</b> 68:21</p> <p><b>pretty</b> 16:19 31:4,8<br/>46:9</p> <p><b>prevent</b> 22:25 23:10<br/>36:5 42:8 55:10</p> | <p>59:12 67:18,20,24<br/>68:5,23 72:16 81:22<br/>82:7 83:1,8 92:6<br/>103:3,19 104:20<br/>105:7 118:5,17</p> <p><b>prevented</b> 131:1</p> <p><b>preventing</b> 32:24<br/>67:16 89:12 103:13<br/>113:18 121:5</p> <p><b>prevention</b> 23:23,25<br/>24:1 67:22 72:19<br/>73:2 74:18 82:5 86:3<br/>118:20 121:7</p> <p><b>previous</b> 14:12</p> <p><b>previously</b> 32:18<br/>36:19 134:24</p> <p><b>price</b> 53:11 121:11</p> <p><b>primarily</b> 20:24 21:6<br/>24:18 115:18 130:1</p> <p><b>primary</b> 13:16 20:1<br/>23:4 24:9 27:3,5<br/>34:18 96:7</p> <p><b>prior</b> 82:12 133:12</p> <p><b>priorities</b> 64:13</p> <p><b>prioritize</b> 77:1,24</p> <p><b>proactive</b> 10:23<br/>105:20</p> <p><b>proactively</b> 11:1</p> <p><b>probability</b> 114:19</p> <p><b>probably</b> 29:11,14<br/>41:14,20 55:23 60:7<br/>69:8 73:21 77:1<br/>90:16 108:16 109:21</p> <p><b>problem</b> 12:2 14:14<br/>16:6 17:4 24:24<br/>35:22 54:23 55:19<br/>64:23 67:11 69:21<br/>70:17 71:20 76:11<br/>86:15 93:19 103:16<br/>108:24 112:7,17<br/>120:14,17 127:25</p> |
|--|---|--|--|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 24

|   |   |  |   |
|---|---|--|---|
| <p>128:21</p> <p><b>problems</b> 11:23 13:9<br/>34:1 86:14 109:12</p> <p><b>procedure</b> 50:15</p> <p><b>proceedings</b> 1:10<br/>140:7</p> <p><b>process</b> 5:20 10:12<br/>20:11 26:23 33:24<br/>36:23 43:17 72:24<br/>82:18,23 83:2 98:6<br/>103:17 105:15 120:4<br/>126:12 133:5 134:7<br/>136:1,13</p> <p><b>processes</b> 134:15</p> <p><b>produce</b> 78:23</p> <p><b>produced</b> 38:9 43:19<br/>78:15 87:24</p> <p><b>product</b> 44:5 58:11<br/>136:10</p> <p><b>products</b> 44:6 46:8<br/>69:7,8,13</p> <p><b>professional</b> 73:4<br/>132:8</p> <p><b>professionals</b> 45:17,18</p> <p><b>program</b> 19:21,22<br/>76:23,24 79:16,17<br/>124:10</p> <p><b>progress</b> 32:9 82:22</p> <p><b>project</b> 2:11,13 7:6<br/>9:9,13 32:3,4 41:8<br/>44:10 48:12,17<br/>49:21 51:20 82:21<br/>89:21 119:5 129:13</p> <p><b>projector</b> 50:5</p> <p><b>projects</b> 13:8,15,21<br/>15:22,25 59:18<br/>72:4,6 107:14</p> <p><b>promise</b> 80:23</p> <p><b>promising</b> 29:19 30:7<br/>74:15 126:1</p> | <p><b>prongs</b> 32:21</p> <p><b>propagated</b> 92:12</p> <p><b>properly</b> 6:20 44:18<br/>138:16</p> <p><b>proposing</b> 90:2</p> <p><b>protect</b> 10:22 11:5<br/>64:18</p> <p><b>protecting</b> 63:23<br/>95:22</p> <p><b>protection</b> 54:15<br/>106:8</p> <p><b>protracted</b> 103:17</p> <p><b>proud</b> 114:4</p> <p><b>proved</b> 58:13</p> <p><b>proven</b> 70:19 121:4</p> <p><b>proves</b> 56:17</p> <p><b>provide</b> 7:21,23 36:17<br/>37:24 38:3 39:15<br/>41:24 44:17 46:25<br/>75:14 99:7 104:11<br/>135:23</p> <p><b>provided</b> 49:20<br/>138:21</p> <p><b>provides</b> 97:8 111:5<br/>117:4</p> <p><b>providing</b> 126:16</p> <p><b>public</b> 1:1 4:16 6:1<br/>7:13,19,24 8:2,6<br/>36:22 48:15 56:8,12<br/>58:5 61:20 69:9<br/>72:21 82:17,20 83:2<br/>87:12 132:22 133:12<br/>134:20 140:1,23</p> <p><b>publicly</b> 19:1 107:8</p> <p><b>publish</b> 19:2 62:6</p> <p><b>published</b> 29:10</p> <p><b>pull</b> 37:4</p> <p><b>pulling</b> 11:24 13:13</p> <p><b>Pumping</b> 33:13</p> | <p><b>purple</b> 6:3</p> <p><b>purpose</b> 22:25 34:7</p> <p><b>purposes</b> 59:16 89:18</p> <p><b>pursue</b> 74:12,25<br/>75:15,18 78:11</p> <p><b>pursued</b> 74:25 77:16</p> <p><b>pursuing</b> 74:16 84:16<br/>94:10</p> <p><b>purview</b> 76:3 88:5</p> <p><b>pushing</b> 107:4 119:4</p> <p><b>putting</b> 11:25 68:16<br/>133:12</p> <hr/> <p style="text-align: center;">Q</p> <hr/> <p><b>qualified</b> 15:2</p> <p><b>quality</b> 2:5 9:4 29:4<br/>53:11 83:5 87:17<br/>99:9 129:11</p> <p><b>quantify</b> 84:13</p> <p><b>quantities</b> 88:9</p> <p><b>quarter-size</b> 5:15</p> <p><b>question</b> 6:4 49:5,7<br/>51:4 54:24 83:12,18<br/>89:2,7 90:25 99:4<br/>102:11 104:25 110:3<br/>114:13 115:5,23<br/>117:14 120:24<br/>121:10,17 124:24<br/>126:19 130:23<br/>133:16 135:1<br/>137:11,25</p> <p><b>question-and</b> 6:12</p> <p><b>questions</b> 8:11,13<br/>17:15 18:24 47:16<br/>49:4,9,14 50:21<br/>61:21 74:5 77:12<br/>86:12,25 87:6,7 89:1<br/>92:19 109:15 122:23<br/>130:21 131:20</p> <p><b>queue</b> 7:10 49:15<br/>51:25 52:2</p> | <p><b>quick</b> 63:19 78:5<br/>83:11 98:23</p> <p><b>quicker</b> 16:17,21<br/>99:14</p> <p><b>quickly</b> 13:24<br/>41:13,16 75:5 76:13<br/>77:12 103:7 110:10</p> <p><b>quite</b> 66:17 76:7<br/>132:14</p> <p><b>quote</b> 56:5</p> <hr/> <p style="text-align: center;">R</p> <hr/> <p><b>race</b> 44:23</p> <p><b>radio</b> 116:7</p> <p><b>rain</b> 25:19</p> <p><b>rainfall</b> 35:15</p> <p><b>raise</b> 5:5,7 19:20<br/>124:24</p> <p><b>raised</b> 52:15 53:4,8</p> <p><b>range</b> 22:19 23:12,20<br/>72:3 92:6</p> <p><b>rapid</b> 76:22,23</p> <p><b>rapidly</b> 120:4</p> <p><b>rarely</b> 23:16</p> <p><b>rather</b> 8:25 82:7,15<br/>91:4 113:12</p> <p><b>Re</b> 1:3</p> <p><b>reach</b> 112:5</p> <p><b>reaches</b> 20:20 75:13</p> <p><b>reaching</b> 93:18 121:5</p> <p><b>readily</b> 74:16</p> <p><b>reading</b> 63:17</p> <p><b>ready</b> 16:12 63:11<br/>65:10 79:6,8 81:9<br/>84:23 93:10 108:9<br/>111:11 117:20<br/>119:18 123:14<br/>126:24 130:8 132:22<br/>133:6</p> |
|---|---|--|---|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011

Page 25

|  |  |   |  |
|--|--|---|--|
| <b>real</b> 23:17 52:16 64:9<br>74:18 135:16   | 29:1,24,25 99:7<br>101:20 123:4  | <b>regional</b> 13:19 123:25<br>129:12                                | <b>removed</b> 16:15   |
| <b>really</b> 11:7 15:18,19<br>17:21 18:15 21:15<br>26:9,18 27:7<br>28:15,19,20 31:13<br>32:15 44:2,19<br>46:7,15 47:1 48:6<br>56:22 70:20,21<br>71:14 74:22 85:22<br>99:13 102:25<br>104:13,18,22 120:24<br>126:15 132:22 | <b>recommended</b> 46:5<br>87:11   | <b>register</b> 4:24 7:8  | <b>repeated</b> 15:15  |
|  | <b>recommending</b> 73:23<br>125:13                                      | <b>registered</b> 7:5<br>51:17,23 52:7                                | <b>repeatedly</b> 112:10<br>118:11   |
|  | <b>record</b> 6:19 47:6 57:1<br>95:16 140:7                              | <b>registration</b> 4:23 49:2<br>138:15 139:2                         | <b>repeating</b> 120:8   |
|  | <b>recorded</b> 140:5  | <b>regular</b> 82:19  | <b>replicate</b> 61:8  |
|  | <b>recording</b> 50:21   | <b>regulation</b> 60:2  | <b>replumbing</b> 12:3   |
|  | <b>recreation</b> 34:19<br>83:24   | <b>reinvent</b> 77:9  | <b>report</b> 19:2 38:9<br>42:9,17 60:7 62:6<br>130:24 131:3,20,24<br>132:3 133:11,13,23<br>134:2,15 |
| <b>realm</b> 83:19   | <b>recreational</b> 64:4 84:2<br>94:7 97:2                               | <b>reiterate</b> 122:16   | <b>reports</b> 29:8,9,23 44:6<br>132:23  |
| <b>realtime</b> 106:16<br>134:1,13   | <b>recycle</b> 7:3 138:24  | <b>reiterating</b> 109:1  |  |
| <b>rear</b> 65:3   | <b>red</b> 24:12 37:23 50:11   | <b>reject</b> 78:7  | <b>represent</b> 51:8 81:12<br>98:13 127:1<br>129:8,21   |
| <b>reason</b> 20:18 33:9<br>61:6 68:3 115:24   | <b>reduce</b> 13:8 29:22<br>46:11 67:18,25<br>68:15 82:2,7 122:21        | <b>rejecting</b> 74:19  | <b>representative</b> 117:23<br>127:10 137:4   |
| <b>reasonably</b> 22:22  | <b>reduced</b> 140:5   | <b>related</b> 26:22 37:15<br>39:6 43:22,24 62:6<br>74:5 115:17 140:8 | <b>representatives</b><br>120:10   |
| <b>reasons</b> 51:9  | <b>reduction</b> 23:13,19<br>72:19 86:3 121:7                            | <b>relative</b> 37:11 38:4<br>104:13 140:10                           | <b>represented</b> 41:5<br>129:7   |
| <b>recall</b> 42:20  | <b>redundancy</b> 117:4  | <b>relatively</b> 24:19<br>41:12,13                                   | <b>representing</b> 108:14<br>111:22 123:22 137:6  |
| <b>received</b> 43:3 49:22<br>135:7,13   | <b>re-enter</b> 49:15  | <b>relatives</b> 52:25  | <b>reproduce</b> 70:14,15<br>71:3  |
| <b>receiver</b> 95:2   | <b>reference</b> 130:15  | <b>relay</b> 34:25  | <b>reproduction</b> 71:9   |
| <b>recent</b> 13:23 20:21  | <b>referencing</b> 5:1   | <b>release</b> 131:3,5<br>133:11,22 136:9                             | <b>reprogram</b> 106:10  |
| <b>recently</b> 13:1,6 19:22   | <b>referring</b> 130:25<br>133:23 135:4                                  | <b>releases</b> 65:2  | <b>request</b> 74:3 119:6<br>132:17,19 133:3   |
| <b>reclamation</b> 18:5 35:2<br>88:6 100:5   | <b>reflect</b> 112:21  | <b>releasing</b> 56:18  | <b>requests</b> 132:18   |
| <b>recognition</b> 109:6<br>115:7  | <b>reflection</b> 128:6  | <b>relevant</b> 43:18 126:15  | <b>required</b> 99:15 100:8  |
| <b>recognize</b> 16:24 94:17<br>95:25 97:6 134:12  | <b>refused</b> 131:3   | <b>reliability</b> 73:11  | <b>requirement</b> 28:10<br>136:6  |
| <b>recognized</b> 53:5   | <b>regard</b> 18:25 47:14<br>74:23 78:14 84:8<br>111:18 112:11<br>131:24 | <b>remaining</b> 49:18 50:9   | <b>requirements</b> 46:23<br>82:23   |
| <b>recognizing</b> 93:19   | <b>regarding</b> 113:7 115:5   | <b>remains</b> 20:1   | <b>requires</b> 64:15  |
| <b>recommend</b> 77:5 87:9<br>136:20   | <b>regards</b> 127:11  | <b>remarks</b> 81:15 93:2   | <b>reschedule</b> 4:7,11   |
| <b>recommendation</b><br>75:9,16 77:21   | <b>region</b> 69:15 81:17<br>83:3 93:18,20 96:11                         | <b>remedy</b> 42:5,9  |  |
| <b>recommendations</b>   |  | <b>remember</b> 85:6,8<br>94:13 138:19                                |  |
|  |  | <b>remind</b> 94:24   |  |
|  |  | <b>remnants</b> 39:6  |  |

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011

Page 26

|  |   |  |   |
|--|---|--|---|
| <b>research</b> 15:19,22<br>19:3 28:11 30:25<br>31:8 58:19 59:11<br>60:12 61:7,24 62:6,7<br>72:2,3 116:12,15<br>117:10 132:11<br><b>reserve</b> 130:22 131:20<br><b>reset</b> 138:5<br><b>residential</b> 88:14<br><b>resolution</b> 15:24 22:15<br>73:17<br><b>Resource</b> 31:2 42:23<br><b>resources</b> 13:14,18<br>41:6,10 52:21 98:1<br>107:13,20 112:8<br><b>respect</b> 53:12 125:22<br><b>responding</b> 133:20<br><b>response</b> 49:7<br>76:22,23 98:23<br><b>responses</b> 97:21<br>110:20<br><b>responsibilities</b> 91:25<br>92:3,4<br><b>responsibility</b> 21:5<br>52:17 53:5 88:7<br>113:19<br><b>responsible</b> 44:2<br>52:20 70:5 128:24<br><b>rest</b> 34:12 36:2 110:7<br>128:16 138:5<br><b>Restoration</b> 43:9<br>46:1,3 106:9 107:15<br><b>restore</b> 53:24<br><b>restoring</b> 88:23<br><b>restrictions</b> 60:2<br><b>restrooms</b> 4:20,21<br><b>result</b> 57:11 77:14<br>133:6,9<br><b>resulting</b> 112:9<br><b>results</b> 16:18 38:25 | 45:3 96:23 136:9<br><b>resurgence</b> 54:24<br><b>return</b> 40:15<br><b>reveal</b> 126:12<br><b>reversing</b> 65:17<br><b>review</b> 43:21 133:6,10<br>134:8,9 135:20<br><b>Reynolds</b> 3:16 108:8<br>111:9,12,13 115:9<br><b>rhetoric</b> 109:12<br><b>Richard</b> 3:16 108:7<br>111:12<br><b>rid</b> 89:5,9 128:17<br><b>Ridge</b> 3:7 63:10<br>65:7,11 66:11,21,23<br><b>right-hand</b> 32:6<br><b>rights</b> 53:21<br><b>risk</b> 11:2 16:9<br>23:12,19 29:22<br>35:11,23,24 36:11<br>37:12 38:3,24<br>39:18,19,22 41:13<br>42:13 43:12 44:3<br>46:11 67:18,25<br>68:15 72:18 82:2,7<br>84:5 90:11,14 104:8<br>111:1 121:7 135:5<br><b>risks</b> 69:21 104:22<br><b>river</b> 1:6 2:8 9:6 11:18<br>12:7 14:1,3,11 18:17<br>19:14 20:4 23:2<br>24:8,13 32:13<br>40:1,3,10,13,21 41:7<br>65:17 74:2 80:12<br>82:4,9 84:1 95:18<br>100:14,19 101:24<br>105:4 106:5<br>107:5,10 118:25<br>119:2 120:6,21<br>123:17,24 124:3<br>127:15<br><b>rivers</b> 11:20 16:5 | 39:25 40:5,11 57:23<br>100:13 106:25<br>107:17 108:2 113:19<br>124:10 127:14<br><b>road</b> 31:14<br><b>rolling</b> 96:24<br><b>room</b> 8:15 19:19 47:23<br>51:22 65:3 138:5<br><b>roots</b> 53:12<br><b>roughly</b> 120:13<br><b>roulette</b> 69:22<br><b>route</b> 45:13<br><b>rubber</b> 31:13<br><b>Rubin</b> 3:19 119:17<br>123:11,15<br><b>R-u-b-i-n</b> 123:16<br><b>RUBIN</b> 123:15<br><b>run</b> 16:17 21:15 50:7<br>124:12<br><b>running</b> 10:25 17:5<br><b>runs</b> 14:12<br><b>Russian</b> 69:22<br><b>rusted</b> 128:10<br><hr/> S <hr/> <b>safe</b> 139:5<br><b>safeguards</b> 62:22<br><b>safely</b> 59:20,22,25<br><b>safety</b> 12:18 59:14,23<br>60:7,9 84:8<br><b>Saffran</b> 2:13 9:13<br>13:23 19:17 37:3,7<br>104:7 131:7,21<br>133:17 135:3<br>136:21,24 137:2,8<br><b>sailing</b> 53:4<br><b>salmon-colored</b> 6:7<br><b>samples</b> 15:8 70:10 | <b>sand</b> 85:14<br><b>Sanitary</b> 37:13,16<br>41:16 55:17 116:4<br>118:10<br><b>save</b> 89:17 120:15<br><b>scale</b> 89:25 124:13<br><b>scales</b> 58:13,14<br><b>scares</b> 100:4<br><b>scenario</b> 44:9 74:14<br>91:3<br><b>scenarios</b> 75:11<br><b>schedule</b> 14:18 44:10<br>47:25<br><b>scheduled</b> 17:22<br><b>school</b> 79:15 85:6<br><b>science</b> 38:18 70:18<br>122:8<br>124:7,12,14,17<br>125:16 126:12,13<br><b>science-based</b> 125:15<br><b>scientific</b> 19:9 124:2<br><b>scientifically</b> 87:25<br><b>scientists</b> 28:25 43:21<br>62:15 70:4 71:6 72:5<br>91:17 124:4 125:2<br>133:4<br><b>scope</b> 34:11<br><b>scoping</b> 1:1 4:13,16<br>5:20 6:2 7:24 29:11<br>30:24 34:7 47:5<br>49:23 103:10 138:16<br><b>Sea</b> 54:20<br><b>Seated</b> 9:5<br><b>Seaway</b> 85:7,10<br><b>second</b> 7:15 8:7,11<br>22:4 27:7 48:8 49:17<br>51:25 52:8 54:6<br>58:2,10 60:12 69:4<br>71:10 99:23 106:7<br>117:1 131:6 |
|--|---|--|---|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011

Page 27

|  |  |  |   |
|--|--|--|---|
| <b>seconds</b> 50:10<br><b>Secretary</b> 73:22 78:13<br>105:22<br><b>Section</b> 73:14,18,23<br>105:23<br><b>securing</b> 118:12<br><b>seeing</b> 109:11<br><b>seem</b> 77:7<br><b>seems</b> 18:22 86:9<br>110:6 111:17<br><b>seen</b> 20:21 48:1 95:10<br>109:25 124:21<br>128:19<br><b>seismic</b> 16:7<br><b>self</b> 105:16<br><b>self-authorizing</b><br>105:16<br><b>semantics</b> 72:17<br><b>Senator</b> 63:16,24 64:9<br>117:24 118:7,15,19<br><b>send</b> 47:8 91:4<br>100:10,18 101:5<br>138:17<br><b>sense</b> 52:16 120:15<br><b>sent</b> 27:21<br><b>Sentinel</b> 56:7<br><b>separate</b> 64:17 82:22<br>95:24 96:4 97:11<br>118:23<br><b>separating</b> 121:4<br><b>separation</b> 36:14<br>74:24 75:1 76:5,14<br>77:5,15,22 95:17<br>96:13,19 97:1 98:16<br>118:24 119:1 120:5<br>121:4 122:17<br><b>series</b> 4:14 26:6 27:7<br>39:13 45:7 48:2<br>59:23 66:12 93:16<br>110:22 | <b>serious</b> 12:1 110:17<br><b>seriously</b> 110:23<br><b>seriousness</b> 122:14<br><b>service</b> 21:7 31:12<br>38:13 41:7 93:23<br>127:4 129:4<br><b>session</b> 6:13 8:5,7 48:9<br>138:9<br><b>sessions</b> 8:3,9<br><b>setting</b> 135:17<br><b>settled</b> 53:2<br><b>seven</b> 113:23,24,25<br>117:19 119:16<br>137:20<br><b>Seventy</b> 34:22<br><b>several</b> 13:7 31:2<br>56:24 58:23 60:25<br>90:12 94:14 101:19<br>106:4 133:14<br><b>severe</b> 54:21<br><b>sewer</b> 35:20<br><b>share</b> 64:7 111:21<br>113:13 117:15<br><b>shared</b> 113:22<br><b>sharp</b> 8:7<br><b>sheet</b> 5:15,19<br>6:3,4,7,10,15,17<br>51:17<br><b>She's</b> 50:19<br><b>ship</b> 12:4 14:13<br>37:13,16 41:16<br>116:4 118:10<br><b>shipped</b> 53:9<br><b>shipping</b> 36:11 120:6<br><b>shock</b> 100:13<br><b>shocking</b> 100:14,16<br>101:22<br><b>shoreline</b> 32:10<br>121:24 | <b>Shores</b> 52:22<br><b>short</b> 57:25 116:23<br>135:16<br><b>shorter</b> 11:19<br><b>shortest</b> 126:2<br><b>shortly</b> 42:16 132:19<br>133:3<br><b>short-term</b> 112:18<br><b>shot</b> 120:23<br><b>showing</b> 130:25<br><b>shown</b> 55:21<br><b>shows</b> 5:11 6:22 11:17<br>131:9<br><b>shutting</b> 28:7<br><b>sides</b> 24:21 30:16<br>50:24 51:14 62:17<br>102:15<br><b>Sierra</b> 81:12,13,19,24<br>82:24<br><b>sign</b> 47:12<br><b>signed</b> 22:1 118:22<br><b>significant</b> 7:16<br>11:8,14 12:13 25:20<br>34:9,10<br>35:7,14,18,23 36:15<br>39:2,18<br>40:7,19,21,25 90:17<br>91:2,5 108:2 109:13<br><b>significantly</b> 35:11<br><b>silver</b> 30:11 41:1<br><b>similar</b> 73:24 106:15<br><b>simple</b> 50:11 68:6<br>101:6<br><b>simplify</b> 58:23<br><b>simplifying</b> 60:16<br><b>simply</b> 46:6 68:14<br>75:10 78:7 91:19<br><b>simulation</b> 110:19<br><b>simultaneously</b> 38:22 | 134:10<br><b>single</b> 32:20,22 76:5<br>95:8<br><b>sir</b> 31:23 33:2 37:7<br>47:19 57:5 62:19<br>63:2,6,8 65:10 66:15<br>73:2 79:4 80:25<br>86:24 90:24 91:8<br>92:19,21 93:10<br>99:17 102:3 111:11<br>115:3 117:15 119:18<br>121:15 123:8 126:24<br>130:5 131:23<br><b>sisters</b> 20:23<br><b>sit</b> 90:23<br><b>site</b> 48:10,12,15,17<br>49:21,25 51:20<br>92:24 128:4<br><b>sits</b> 88:15<br><b>sitting</b> 9:16 93:4<br>123:19 127:8 129:7<br><b>situation</b> 16:2 29:21<br>69:14 105:21 106:17<br>115:5 128:2 134:11<br><b>six</b> 16:1 41:21 56:21<br>111:10 117:17<br>120:22 121:20<br><b>six-step</b> 33:24<br><b>sixth</b> 79:5<br><b>size</b> 60:14,20 61:4<br><b>slide</b> 20:14 21:18,20<br>25:10 30:18 32:2,6<br>37:5 44:8,9 46:7,24<br><b>slides</b> 6:23 19:15 50:2<br><b>slight</b> 136:17 137:17<br><b>slightly</b> 60:16<br><b>slowly</b> 14:19 51:12<br>65:24<br><b>small</b> 25:2 31:5 34:25<br>60:13 89:17 90:4<br>108:15 |
|--|--|--|---|



Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 28

|  |   |   |   |
|--|---|---|---|
| <p><b>smaller</b> 58:13,14<br/>61:13,25 124:13</p> <p><b>smart</b> 28:20</p> <p><b>Smith</b> 3:21 126:23<br/>130:8,9 133:19<br/>136:14</p> <p><b>Smith-Root</b> 130:24<br/>131:24 133:4</p> <p><b>smuggling</b> 128:20</p> <p><b>SNAFU</b> 113:10,11<br/>115:5</p> <p><b>snowier</b> 4:8</p> <p><b>social</b> 47:11 48:23</p> <p><b>sold</b> 53:10</p> <p><b>solicit</b> 7:15</p> <p><b>solution</b> 41:14 44:21<br/>45:11,13 46:5 56:3<br/>57:10,25 73:5 82:12<br/>95:22 96:3 98:17<br/>126:4</p> <p><b>solutions</b> 20:12 44:7<br/>45:12 46:10 73:8,10<br/>75:7 96:12</p> <p><b>solve</b> 64:22 69:14<br/>76:11 86:14 120:14</p> <p><b>somebody</b> 86:4 101:5<br/>127:11</p> <p><b>someone</b> 100:18</p> <p><b>somewhere</b> 15:11 43:2</p> <p><b>sons</b> 20:22</p> <p><b>sooner</b> 70:25</p> <p><b>sorry</b> 34:22 75:24</p> <p><b>sort</b> 41:14 86:9 90:3</p> <p><b>sorts</b> 47:10</p> <p><b>sought</b> 118:11</p> <p><b>sound</b> 81:2 85:22 94:4</p> <p><b>sounds</b> 35:21</p> <p><b>source</b> 48:10 106:10</p> | <p>107:18 137:10</p> <p><b>sources</b> 16:10 55:4<br/>62:10 137:11</p> <p><b>south</b> 1:13 11:15,21<br/>32:10 40:3 56:14<br/>85:15,19 121:23</p> <p><b>southeast</b> 123:21</p> <p><b>southeastern</b> 40:2</p> <p><b>southern</b> 53:3</p> <p><b>southwest</b> 40:2,6</p> <p><b>spawned</b> 60:24</p> <p><b>spawning</b> 16:8 54:23<br/>110:1</p> <p><b>speak</b> 7:5,8 31:20 35:2<br/>36:24 49:11<br/>51:11,12,23 98:13<br/>120:7</p> <p><b>speaker</b> 66:12 78:2<br/>79:5 81:8 84:19</p> <p><b>speakers</b> 3:2 124:6</p> <p><b>speaking</b> 50:13 81:19<br/>108:21</p> <p><b>special</b> 95:6</p> <p><b>species</b> 11:10 23:1,4<br/>24:19,21 25:4 29:22<br/>30:13 31:11 32:16<br/>36:3,6 37:16<br/>38:6,14,15 43:25<br/>44:2 46:12 54:16<br/>55:1,4,6,11,12,20<br/>57:23 63:24 64:19<br/>79:17 81:18,21<br/>82:2,5,7 83:6,21<br/>84:9 89:18 92:8<br/>94:15,20,21 95:2,24<br/>102:14,17,23 105:8<br/>109:25<br/>118:3,8,10,21 126:7<br/>131:2</p> <p><b>specific</b> 16:4 18:25<br/>28:22 29:2 38:16<br/>43:24 46:22 47:5</p> | <p><b>specifically</b> 123:24<br/>129:17</p> <p><b>specifying</b> 34:1</p> <p><b>speed</b> 56:9</p> <p><b>speedy</b> 64:16</p> <p><b>spell</b> 51:6</p> <p><b>spelled</b> 93:12</p> <p><b>spelling</b> 51:7</p> <p><b>spend</b> 32:1 120:15</p> <p><b>spent</b> 46:4 76:17</p> <p><b>spoke</b> 84:5</p> <p><b>sponsored</b> 118:22</p> <p><b>sport</b> 55:13</p> <p><b>spread</b> 22:25 32:24<br/>36:5</p> <p><b>spreading</b> 115:19</p> <p><b>spring</b> 110:1</p> <p><b>square</b> 123:20</p> <p><b>St</b> 4:4 40:1,2 53:9<br/>96:17</p> <p><b>Stabenow</b> 63:16,24<br/>64:9 120:10</p> <p><b>staff</b> 5:6 8:9,14,17<br/>74:4 82:21 124:4</p> <p><b>staffers</b> 98:5</p> <p><b>staged</b> 51:2</p> <p><b>stake</b> 53:16</p> <p><b>stakeholders</b> 28:14<br/>34:5 36:21 41:4<br/>131:18</p> <p><b>stand</b> 52:1 70:21</p> <p><b>standard</b> 68:1</p> <p><b>standing</b> 53:16</p> <p><b>stands</b> 136:4</p> <p><b>star</b> 12:15</p> <p><b>start</b> 7:10 31:11<br/>32:9,15 43:5 48:8</p> | <p>50:6 51:19,25<br/>52:10,11 54:9 105:3<br/>111:14 131:15</p> <p><b>started</b> 16:1 37:9 50:7</p> <p><b>starting</b> 68:13 138:9</p> <p><b>state</b> 13:18 16:6 23:23<br/>31:1 34:4 36:21<br/>38:17 74:18<br/>77:15,17 79:9<br/>112:20 119:21 124:1<br/>135:9,19 140:24</p> <p><b>stated</b> 73:1</p> <p><b>statement</b> 6:14<br/>26:20,24 49:3<br/>50:14,23 63:17<br/>72:15 108:25 117:25<br/>137:24</p> <p><b>statements</b> 6:12 62:10</p> <p><b>states</b> 11:4 16:7 24:17<br/>31:3 94:2,9 95:18<br/>98:14,15 106:25<br/>107:6 110:25 135:10</p> <p><b>state's</b> 124:10</p> <p><b>States</b> 88:16</p> <p><b>Station</b> 33:13</p> <p><b>statistical</b> 51:9</p> <p><b>status</b> 135:23 136:11</p> <p><b>stay</b> 47:10 92:3</p> <p><b>stenographer</b> 50:19</p> <p><b>step</b> 119:7</p> <p><b>stepped</b> 41:23 85:21</p> <p><b>steps</b> 36:2 120:3 125:6<br/>126:6</p> <p><b>stood</b> 100:14</p> <p><b>stop</b> 10:23 11:11<br/>14:14 56:1 64:15<br/>65:2,13,16<br/>80:7,9,15,17<br/>86:2,3,10 105:25<br/>107:10,23 114:12</p> |
|--|---|---|---|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 29

|  |  |   |   |
|--|--|---|---|
| <p>118:10</p> <p><b>stopped</b> 58:14</p> <p><b>stopping</b> 11:15 12:21<br/>44:14 107:22</p> <p><b>storm</b> 40:8,15</p> <p><b>stormwater</b> 13:3<br/>86:13 88:3 90:25<br/>91:1 97:5</p> <p><b>strategy</b> 10:23 11:5<br/>13:12 15:23 17:8<br/>72:7,10 82:11<br/>107:22</p> <p><b>stream</b> 11:20 12:9<br/>114:11</p> <p><b>streams</b> 54:23 104:16</p> <p><b>Street</b> 1:13</p> <p><b>stretch</b> 59:20 60:2<br/>71:2</p> <p><b>strong</b> 10:21,24 11:5<br/>17:2 124:2</p> <p><b>strongly</b> 82:24</p> <p><b>structure</b> 33:14,20</p> <p><b>structured</b> 82:11</p> <p><b>structures</b> 21:11<br/>33:16 57:20 107:1,2</p> <p><b>struggles</b> 124:8</p> <p><b>student</b> 79:13 80:18</p> <p><b>studied</b> 43:22 57:10<br/>58:20 124:3</p> <p><b>studies</b> 28:6 44:6<br/>58:18 59:3 60:5,6<br/>69:18 77:10 87:18<br/>100:13 119:10</p> <p><b>studying</b> 24:14 76:17<br/>79:19 110:20<br/>128:2,13</p> <p><b>study's</b> 48:11 82:11</p> <p><b>stuff</b> 30:9 58:15</p> <p><b>stun</b> 59:1</p> | <p><b>stunk</b> 85:21</p> <p><b>stunned</b> 59:4,5 60:14</p> <p><b>stunning</b> 100:17</p> <p><b>sub-bullet</b> 28:13</p> <p><b>subject</b> 17:25 113:21</p> <p><b>submit</b> 60:6 130:18</p> <p><b>submitted</b> 8:19</p> <p><b>subscribe</b> 48:11</p> <p><b>Subsequently</b> 116:12</p> <p><b>succeeded</b> 118:12</p> <p><b>success</b> 13:23 27:11</p> <p><b>suddenly</b> 85:17</p> <p><b>sufficient</b> 33:21 100:5</p> <p><b>suggest</b> 115:8</p> <p><b>suggesting</b> 101:3</p> <p><b>suggestion</b> 100:12</p> <p><b>suggestions</b> 107:7</p> <p><b>suggests</b> 114:15</p> <p><b>summer</b> 13:25 85:17</p> <p><b>supplanting</b> 55:11</p> <p><b>supplemental</b> 43:8</p> <p><b>supply</b> 11:24 34:19<br/>36:12</p> <p><b>support</b> 21:3,6 44:13<br/>54:14 94:3 96:22<br/>97:17,19 98:21<br/>101:22 134:20</p> <p><b>supporters</b> 81:13</p> <p><b>supporting</b> 45:19<br/>95:16 98:16 101:21</p> <p><b>supportive</b> 101:18</p> <p><b>supports</b> 21:8 41:7<br/>118:25</p> <p><b>suppositions</b> 91:19</p> <p><b>sure</b> 5:5,7,25 6:20 7:8<br/>8:22,24 12:8,13<br/>27:11 33:17 50:25</p> | <p>51:1 62:21 74:6<br/>81:10 86:24 88:21<br/>98:2 104:22 120:21<br/>121:22 132:9<br/>136:3,24 137:8<br/>138:4</p> <p><b>surety</b> 23:16</p> <p><b>Survey</b> 27:25</p> <p><b>surveyor</b> 41:6</p> <p><b>surveys</b> 87:14,15,16</p> <p><b>survive</b> 55:8,9</p> <p><b>suspended</b> 71:8</p> <p><b>sustainable</b> 44:15</p> <p><b>swampy</b> 88:16</p> <p><b>swim</b> 61:12,14 70:24<br/>127:14,15</p> <p><b>swimmers</b> 16:19 26:5</p> <p><b>swimming</b> 53:4 58:17<br/>79:25</p> <p><b>switch</b> 50:8 115:11</p> <p><b>symbolic</b> 20:18</p> <p><b>system</b> 18:4 20:1<br/>25:15,25 27:4 31:18<br/>32:4,8,18,19 33:4<br/>34:23<br/>35:7,10,17,20,24<br/>36:6,9,10 54:20<br/>59:15 64:18 66:25<br/>67:17 82:14 94:13<br/>95:7 96:1,6 97:4,7<br/>107:10 115:18,22<br/>116:9,11 123:23<br/>128:16</p> <p><b>systems</b> 33:22 39:8<br/>106:2</p> <hr/> <p style="text-align: center;">T</p> <hr/> <p><b>table</b> 6:16 7:7<br/>9:8,12,18 127:9<br/>129:7,21 138:14,15</p> <p><b>tables</b> 4:24</p> | <p><b>tag</b> 121:11</p> <p><b>tags</b> 116:7</p> <p><b>taking</b> 10:9 18:18 30:3<br/>48:6 68:9 69:3 85:8<br/>91:23 95:6 107:2<br/>110:5,22 113:18<br/>115:20</p> <p><b>talent</b> 17:2</p> <p><b>talk</b> 6:24 8:11,16,24<br/>10:13 13:23 14:5<br/>15:21 18:25 19:13<br/>20:5 22:17 23:7<br/>25:6,12,19 27:11<br/>31:16,19 37:4 58:2<br/>85:2,4 88:8 130:19</p> <p><b>talked</b> 25:16 26:11,18<br/>27:15 43:13,17<br/>44:1,3 72:2 74:23<br/>87:23 88:24<br/>106:4,11 116:13<br/>122:15 129:17<br/>130:16</p> <p><b>talking</b> 5:13 17:17<br/>32:2 33:17 47:21<br/>86:8 88:13,22 89:25<br/>100:9 101:8 107:15<br/>136:21 137:6,18</p> <p><b>talks</b> 6:7</p> <p><b>tall</b> 80:8</p> <p><b>tamarack</b> 102:24</p> <p><b>tangential</b> 86:9</p> <p><b>task</b> 70:4 113:1,3,7</p> <p><b>taxpayers</b> 45:5</p> <p><b>team</b> 6:24 7:12 20:10<br/>27:14,15 37:23<br/>78:20 80:5,16 98:4<br/>105:20</p> <p><b>teams</b> 34:3 38:23<br/>135:15,18,24</p> <p><b>technical</b> 33:21 82:21<br/>132:1,8</p> |
|--|--|---|---|

|  |   |   |   |
|--|---|---|---|
| <p><b>technically</b> 67:24</p> <p><b>technique</b> 15:16</p> <p><b>technologies</b> 16:7<br/>22:20,21 23:20,21<br/>29:17,18 30:6 33:6<br/>42:8 74:11 83:22<br/>92:6 125:25</p> <p><b>technology</b> 58:12<br/>67:23 75:17 116:3</p> <p><b>teenager</b> 85:13,14</p> <p><b>telemetry</b> 116:6,9</p> <p><b>temporary</b> 41:15<br/>73:20 118:9</p> <p><b>ten</b> 40:16</p> <p><b>tend</b> 60:21</p> <p><b>tens</b> 122:2</p> <p><b>term</b> 11:12 39:22<br/>41:13 57:25<br/>74:13,16 75:17<br/>96:2,3 113:9,15<br/>115:21</p> <p><b>terms</b> 25:3,4,7 46:8<br/>47:2 88:3 89:9 95:8<br/>124:16</p> <p><b>terrain</b> 24:25 75:2</p> <p><b>terrible</b> 66:24 80:1,17</p> <p><b>territory</b> 53:21</p> <p><b>test</b> 15:14 16:17</p> <p><b>tested</b> 12:18</p> <p><b>testimony</b> 140:4</p> <p><b>tests</b> 59:23 116:6,9</p> <p><b>thank</b> 9:22,24 10:3,7,9<br/>31:23 33:2 37:1,2,7<br/>47:19 51:12 54:4,5<br/>57:5 63:6,8,12,13,21<br/>64:25 65:4,5,6<br/>66:4,5,10,14<br/>71:22,23 75:23<br/>78:1,3 79:4 80:18,20<br/>81:5,6 83:9,17<br/>84:17,18 86:22,23</p> | <p>92:21 93:11,15,22<br/>98:10,18,19 99:17<br/>101:12,13 102:1,3,4<br/>104:4,6 108:5<br/>110:8,9 111:7,8,20<br/>115:1,3 117:16<br/>118:1 119:14,15,23<br/>121:14,15 123:10<br/>125:10 126:18,20<br/>127:3 129:4,5<br/>130:5,6,11 131:22<br/>135:1 136:14,15,16<br/>138:10 139:6</p> <p><b>thanks</b> 9:25 10:8<br/>17:17,19 27:20<br/>31:12,24 42:18<br/>47:18 62:4 63:5 66:9<br/>71:24 72:11,13 78:4<br/>79:3 91:7 92:19<br/>98:20 99:16 108:4<br/>117:15 123:8 131:23<br/>137:15 139:7</p> <p><b>that's</b> 5:20 8:22 14:13<br/>16:16,21 17:14<br/>22:23 24:9,17<br/>25:9,10,14,15 26:19<br/>27:5 28:14,23 29:2<br/>32:2,25 33:3 34:1,18<br/>35:6 43:19 56:19<br/>58:3 61:17 62:3,20<br/>63:2 66:3 67:23<br/>68:1,10,24 69:21<br/>70:9 71:8 72:16<br/>73:13,19 74:24<br/>76:12,15,25 78:9,12<br/>85:15 86:5 87:19,23<br/>88:4,5,12 89:7,8<br/>90:16,21 91:13 92:8<br/>93:1 97:15 98:4,9<br/>101:24 103:23<br/>105:14 106:20 107:2<br/>108:2 109:20<br/>110:3,4,24 113:17<br/>114:21 116:17 117:5<br/>121:13 122:7 125:2<br/>128:5 131:19 132:11<br/>133:14 134:5,11</p> | <p>136:11 137:11</p> <p><b>themselves</b> 71:7,17<br/>76:20 86:17 89:3,4</p> <p><b>theoretical</b> 121:10</p> <p><b>thereafter</b> 132:19<br/>140:5</p> <p><b>therefore</b> 33:19 44:21</p> <p><b>there's</b> 7:7 13:15<br/>14:13 21:22 25:14<br/>30:12 33:19 34:18<br/>46:22 47:10 56:24<br/>58:23,25 61:3 70:15<br/>71:16 77:16,22<br/>78:19 96:11 100:22<br/>101:1 103:22,23<br/>104:14,15 107:19<br/>109:17 111:17,24<br/>113:9,15 116:18<br/>124:20 125:2 136:2</p> <p><b>they'll</b> 5:16 78:21</p> <p><b>they're</b> 16:12,19 22:8<br/>30:17 46:17 59:5<br/>60:20,22 78:22 85:3<br/>87:2<br/>90:6,12,18,20,22<br/>92:16 102:23 103:2<br/>105:10 106:19<br/>110:15,18,21,22<br/>111:2 112:25 122:20<br/>134:3 136:6</p> <p><b>they've</b> 26:11 54:24<br/>60:1 78:15 89:17<br/>95:12 119:25</p> <p><b>third</b> 9:8 12:17 28:13<br/>63:9 117:3</p> <p><b>Thirteen</b> 112:11</p> <p><b>Thomas</b> 3:7 63:10</p> <p><b>thorough</b> 104:13</p> <p><b>thoughts</b> 104:3 111:21</p> <p><b>thousands</b> 122:2,3</p> <p><b>threat</b> 16:24 63:25<br/>64:1,3 95:8 131:4,14</p> | <p><b>threats</b> 118:4</p> <p><b>three-minute</b> 49:8<br/>50:4</p> <p><b>thrive</b> 71:12,17</p> <p><b>throughout</b> 7:20<br/>23:15 31:2 35:19<br/>109:19</p> <p><b>thus</b> 62:7</p> <p><b>timeframe</b> 126:3</p> <p><b>timeline</b> 4:12 29:14<br/>44:22 75:4 82:11<br/>100:4</p> <p><b>tinkering</b> 68:17</p> <p><b>today</b> 4:6 5:11,25<br/>10:1,19 17:16<br/>18:4,8,12 19:13<br/>20:20 21:6 23:5<br/>31:24 34:2,11 47:25<br/>51:17,21,23 52:8,16<br/>57:21 59:7 63:3,24<br/>64:6 67:1,13 81:19<br/>84:19 87:13 91:18<br/>92:24 93:15 94:18<br/>98:13 111:21<br/>113:10,13 114:5,9<br/>115:14 116:18<br/>117:24 119:24<br/>123:19,22 129:21<br/>139:1</p> <p><b>today's</b> 4:3,9 48:8<br/>81:25 118:2</p> <p><b>t-o-n</b> 127:1</p> <p><b>tool</b> 48:21 50:4</p> <p><b>top</b> 13:16 14:11 64:13<br/>80:9 128:19</p> <p><b>topic</b> 48:5 79:17,19</p> <p><b>total</b> 34:21</p> <p><b>totally</b> 101:18 112:16</p> <p><b>touch</b> 47:10</p> <p><b>tour</b> 130:13</p> <p><b>Tourism</b> 66:1</p> |
|--|---|---|---|

|  |   |   |   |
|--|---|---|---|
| <p><b>toward</b> 32:9 35:23<br/>105:3,4</p> <p><b>towards</b> 131:7</p> <p><b>town</b> 40:1,7,11</p> <p><b>toxins</b> 16:3</p> <p><b>traces</b> 15:7</p> <p><b>track</b> 5:13 99:3</p> <p><b>train</b> 124:11</p> <p><b>trained</b> 44:24</p> <p><b>transfer</b> 38:5 42:8</p> <p><b>transferred</b> 82:3</p> <p><b>transfers</b> 37:16</p> <p><b>transit</b> 46:13</p> <p><b>transition</b> 105:6,9,11</p> <p><b>transparent</b> 72:21</p> <p><b>trapped</b> 16:15</p> <p><b>Traverse</b> 129:15</p> <p><b>treating</b> 91:1</p> <p><b>treatment</b> 86:14</p> <p><b>tremendous</b> 38:10,11<br/>111:15</p> <p><b>tremendously</b> 29:3</p> <p><b>tribe</b> 129:16</p> <p><b>Tribes</b> 113:22</p> <p><b>tributaries</b> 12:12</p> <p><b>tributary</b> 40:12<br/>104:16 113:19</p> <p><b>tricky</b> 51:6</p> <p><b>tried</b> 62:17</p> <p><b>Trilby</b> 3:14 99:19<br/>102:8 104:7</p> <p><b>trip</b> 85:8 129:15</p> <p><b>trouble</b> 137:12</p> <p><b>troublesome</b> 109:3</p> <p><b>trout</b> 54:22</p> <p><b>trove</b> 33:5</p> | <p><b>true</b> 52:19 70:9 74:18<br/>112:21 140:7</p> <p><b>truly</b> 24:13</p> <p><b>trumping</b> 109:13</p> <p><b>trust</b> 129:24</p> <p><b>try</b> 74:17 97:22 104:10<br/>116:15 120:9 125:8<br/>136:6 137:2</p> <p><b>trying</b> 13:8 16:10 21:1<br/>45:12 72:20 84:13<br/>100:2 124:6,13,17</p> <p><b>Tuesday</b> 1:9 130:12</p> <p><b>turbulent</b> 71:2</p> <p><b>turn</b> 6:18,21 10:5<br/>19:16 45:3 47:15<br/>50:11 100:20 101:5<br/>114:20 138:13</p> <p><b>turnaround</b> 16:22</p> <p><b>turned</b> 106:9</p> <p><b>turns</b> 133:8</p> <p><b>Twitter</b> 47:12</p> <p><b>two-pronged</b> 38:21</p> <p><b>type</b> 110:12</p> <p><b>types</b> 39:4,7</p> <p><b>typewriting</b> 140:6</p> <p><b>typography</b> 25:2</p> <hr/> <p>U</p> <hr/> <p><b>U.S</b> 1:11 2:8 9:7<br/>24:5,6 26:8 27:25<br/>41:23 56:8 63:16</p> <p><b>ultimately</b> 105:2<br/>123:5</p> <p><b>unable</b> 22:6,7</p> <p><b>unanimous</b> 95:19</p> <p><b>unanimously</b> 95:16</p> <p><b>uncertain</b> 75:7</p> <p><b>uncertainty</b> 39:19</p> <p><b>uncles</b> 20:24</p> | <p><b>unconsciousness</b> 59:6</p> <p><b>uncontrolled</b> 33:18</p> <p><b>uncover</b> 24:2</p> <p><b>understand</b> 18:15<br/>29:16 36:16 61:21<br/>69:9 74:20 75:24<br/>76:1 77:13 91:18<br/>108:23 114:14<br/>120:7,13 123:2<br/>125:23 128:3 129:2<br/>132:7,16 136:2<br/>137:3,13</p> <p><b>understanding</b> 28:8<br/>31:6 58:5,24 69:19<br/>73:16 87:10,25<br/>89:11 106:17 125:24<br/>132:10 133:1 136:5</p> <p><b>understood</b> 12:8<br/>18:23</p> <p><b>undertake</b> 122:22</p> <p><b>underway</b> 28:24 96:20</p> <p><b>unfortunately</b> 81:17<br/>109:24</p> <p><b>UNIDENTIFIED</b><br/>78:2</p> <p><b>uniform</b> 20:17 46:18<br/>91:22 93:23 113:13</p> <p><b>unintended</b> 54:20</p> <p><b>unique</b> 11:9 32:17<br/>33:3,15</p> <p><b>United</b> 88:16</p> <p><b>unknown</b> 91:17</p> <p><b>unless</b> 81:21 89:25</p> <p><b>unlikely</b> 75:4</p> <p><b>unoptimal</b> 45:4</p> <p><b>unpolitically</b> 115:7</p> <p><b>update</b> 10:17 50:10</p> <p><b>updated</b> 110:16</p> <p><b>updates</b> 48:13</p> | <p><b>upheavals</b> 20:22</p> <p><b>upon</b> 22:14 25:18<br/>29:12</p> <p><b>upper</b> 4:15 24:7 75:13</p> <p><b>urban</b> 39:10</p> <p><b>urbanized</b> 75:2</p> <p><b>urge</b> 96:13 97:13,25<br/>120:3</p> <p><b>urged</b> 118:15</p> <p><b>urgency</b> 69:4</p> <p><b>urgent</b> 71:20 96:11<br/>105:20,24 106:11,17</p> <p><b>urges</b> 82:24</p> <p><b>useful</b> 69:8 111:6</p> <p><b>users</b> 34:16 36:15</p> <p><b>USGS</b> 38:13,17 41:9<br/>87:21 91:13</p> <p><b>usually</b> 16:20</p> <hr/> <p>V</p> <hr/> <p><b>validate</b> 116:15<br/>117:10</p> <p><b>value</b> 84:2,3,15 112:19</p> <p><b>valued</b> 46:17</p> <p><b>values</b> 112:17</p> <p><b>VandePolder</b> 3:4<br/>52:8,10,13</p> <p><b>variety</b> 23:20 122:15</p> <p><b>various</b> 25:4 44:1<br/>57:23 72:6 89:13<br/>123:1 133:21</p> <p><b>vector</b> 95:3</p> <p><b>vectors</b> 94:14</p> <p><b>velocity</b> 61:11,15</p> <p><b>versus</b> 89:13 111:16</p> <p><b>vertebrate</b> 30:13</p> <p><b>vertically</b> 70:24</p> <p><b>vetted</b> 87:12 132:25</p> |
|--|---|---|---|

Capital Reporting Company  
GLMRIS Public Meeting I 03-08-2011  
Page 32

|   |  |   |  |
|---|--|---|--|
| <p>133:21<br/> <b>via</b> 47:11<br/> <b>viable</b> 74:9<br/> <b>vigilantly</b> 17:6<br/> <b>viral</b> 30:15<br/> <b>virtually</b> 91:11<br/> <b>visual</b> 50:2<br/> <b>voice</b> 80:19 127:1<br/> <b>voiced</b> 107:7 129:18<br/> <b>void</b> 111:15,19<br/> <b>volt</b> 58:22 116:13<br/> <b>voltage</b> 56:14 58:24<br/> <b>volts</b> 56:20,21 58:17<br/> 59:8,9 60:16,18<br/> 116:14,16</p> <hr/> <p style="text-align: center;">W</p> <hr/> <p><b>Wabash</b> 14:1,3 39:7<br/> 40:13,21<br/> <b>wait</b> 29:7 30:23 71:20<br/> 73:6 81:3 119:3<br/> 126:4 134:1,5<br/> <b>waiting</b> 44:5 93:8<br/> <b>walk</b> 85:14<br/> <b>war</b> 20:19<br/> <b>warming</b> 111:25<br/> <b>Washington</b> 64:14<br/> 70:3 96:11 129:1<br/> <b>Washtenaw</b> 127:1<br/> <b>wasn't</b> 62:13 85:13<br/> 102:16 132:4<br/> <b>waste</b> 12:1<br/> <b>wasted</b> 119:10<br/> <b>wastewater</b> 34:24<br/> 35:6 86:14 97:3<br/> <b>watch</b> 115:8<br/> <b>watching</b> 12:13<br/> <b>water</b> 11:17,24,25</p> | <p>12:9 15:8 18:5<br/> 25:3,13 34:19<br/> 35:1,16,17 36:12<br/> 38:18 39:2,15<br/> 40:9,17 59:21<br/> 61:10,11 71:2 83:4<br/> 86:20 87:17 88:6,22<br/> 89:20 96:4 97:11<br/> 102:22 119:20<br/> 127:14 128:9<br/> <b>Waterford</b> 79:14<br/> <b>waters</b> 14:1,14<br/> 32:12,13 81:14<br/> 107:11<br/> <b>watershed</b> 20:4 24:5,8<br/> 105:4 109:7<br/> 123:18,20,24,25<br/> 124:13<br/> <b>watersheds</b> 95:24<br/> <b>waterskiing</b> 79:25<br/> <b>waterway</b> 17:12 18:4<br/> 20:1 25:15,25 27:4<br/> 31:18 32:4,8<br/> 34:16,23 36:6,15<br/> 42:23 55:18 60:3<br/> 64:17 75:2 82:14<br/> 88:10 94:13 95:6<br/> 96:6 97:4,7 101:17<br/> 106:2 115:18,21<br/> 128:16<br/> <b>waterways</b> 28:8<br/> 33:10,19 34:15<br/> 83:20 95:1 104:12<br/> <b>wave</b> 71:5,6<br/> <b>Wayne</b> 14:5 39:23<br/> 40:1,3,7,11 41:5<br/> 128:5<br/> <b>ways</b> 47:10 56:19<br/> 67:16 72:8 76:6<br/> 102:17 103:16 130:3<br/> <b>wear</b> 46:18<br/> <b>weather</b> 4:9 17:24<br/> 25:18</p> | <p><b>Web</b> 47:11<br/> 48:9,12,15,17<br/> 49:21,25 51:20<br/> 92:24<br/> <b>Website</b> 7:6 47:8<br/> <b>Websites</b> 19:2<br/> <b>wedded</b> 125:19<br/> <b>week</b> 15:14 35:3 64:15<br/> 70:2 72:5 107:9<br/> 110:18<br/> <b>weeks</b> 12:20 16:17<br/> 62:6 73:21 133:9<br/> <b>weigh</b> 79:22<br/> <b>weighing</b> 67:9 68:8<br/> <b>weighted</b> 49:23 50:1<br/> <b>weird</b> 30:9<br/> <b>welcome</b> 8:16 10:8<br/> 54:12<br/> <b>we'll</b> 5:1,5 10:5,13<br/> 18:24 19:16 22:17<br/> 23:7 25:19 27:16,24<br/> 29:10 31:7 47:16<br/> 52:5,10 59:18 60:6<br/> 62:24 63:3 65:7 72:7<br/> 78:25 79:1 80:23<br/> 81:1 83:19 84:21<br/> 96:24 111:1 113:16<br/> 126:16 134:25<br/> 137:14<br/> <b>well-being</b> 55:1<br/> <b>well-known</b> 100:25<br/> <b>we're</b> 5:13 10:10 11:3<br/> 12:13 15:6 17:7<br/> 19:6,13 22:6,20,23<br/> 23:6,10<br/> 24:6,9,14,18,21<br/> 25:12,24 26:3,8,9<br/> 27:2,8 28:6,19,22<br/> 29:1,7,15 30:2,17<br/> 33:5,25 34:2,13<br/> 36:3,4 44:4,22<br/> 45:2,10,11 46:1,3,8</p> | <p>50:3,5 51:21 52:22<br/> 53:14 58:24 59:24<br/> 60:5,15 63:2,3 69:20<br/> 72:20 73:17 74:12<br/> 76:22 78:5,6,23 79:1<br/> 81:4 83:25 84:4<br/> 87:12,14,15,16,18,2<br/> 0 88:12 89:8,9,25<br/> 90:4 92:8 94:5,10,11<br/> 96:20 99:1,3,5,8<br/> 100:9 101:8 104:22<br/> 105:2,14,17 107:16<br/> 111:9 113:17 114:10<br/> 115:19,20 116:17<br/> 117:17 119:16<br/> 122:18 123:11,25<br/> 124:18 126:21<br/> 127:23 128:6,12,15<br/> 129:24 130:7,17<br/> 137:17<br/> <b>west</b> 24:13 40:4<br/> <b>Wethington</b> 2:11 9:8<br/> 19:17,24 27:4<br/> 31:16,20,23 57:20<br/> 83:17 129:6<br/> <b>wetlands</b> 39:14 41:7<br/> 88:17 127:21<br/> <b>we've</b> 5:10 9:19 11:8<br/> 13:14,19 19:4 20:21<br/> 23:14 26:5 27:21<br/> 30:10,21,25<br/> 31:1,4,5,7,8,10,11<br/> 43:3,7,16,19 46:4,7<br/> 47:20,23 48:1,2<br/> 50:3,23 51:15 52:21<br/> 53:19 62:7 67:5 70:6<br/> 85:25 87:23 91:13<br/> 92:5 97:20,21,23<br/> 100:10,23 107:22<br/> 122:15 124:21,25<br/> 125:19 128:25<br/> 134:18,19,21 135:16<br/> 137:18 138:21<br/> <b>whatever</b> 77:15 93:6<br/> <b>wheel</b> 77:9</p> |
|---|--|---|--|

|   |  |   |
|---|--|---|
| <p><b>wherever</b> 98:1</p> <p><b>whether</b> 20:19 23:25<br/>30:4 44:25 47:11<br/>49:24 54:24 57:9<br/>59:14 75:7 116:4</p> <p><b>white</b> 2:4 5:19 8:24<br/>9:4 44:1 129:10</p> <p><b>whole</b> 8:25 10:10<br/>15:18 23:13 26:22<br/>28:17 45:7 60:1<br/>122:14 128:2,6</p> <p><b>whom</b> 140:2</p> <p><b>who's</b> 37:3 62:22 65:1<br/>70:3 86:19 89:5<br/>92:10 101:22</p> <p><b>whose</b> 140:4</p> <p><b>wide</b> 72:3</p> <p><b>Wildlife</b> 27:17 31:12<br/>38:12 44:2 67:3<br/>81:16 102:9 130:10</p> <p><b>Wilmette</b> 33:13</p> <p><b>window</b> 42:4</p> <p><b>Winston</b> 46:20</p> <p><b>winter</b> 56:19</p> <p><b>wire</b> 80:8</p> <p><b>wise</b> 17:3 54:25</p> <p><b>wish</b> 49:16 80:3 81:24<br/>127:8 128:22<br/>138:17,22</p> <p><b>witness</b> 140:4</p> <p><b>witnessed</b> 111:15</p> <p><b>wonder</b> 103:12 131:2</p> <p><b>wondering</b> 102:16<br/>104:2 109:17</p> <p><b>Woodrooffe</b> 3:15<br/>102:6 108:7,10,11</p> <p><b>work</b> 5:18 13:20 15:16<br/>17:4,8 22:13 26:12<br/>27:24 42:21 43:7<br/>48:7 57:25 64:21</p> | <p>78:18 94:1 95:4<br/>96:9,14 98:8 100:22<br/>105:3 111:2<br/>112:24,25 116:23<br/>119:25 130:13<br/>135:22</p> <p><b>worked</b> 72:4 112:23<br/>131:2</p> <p><b>working</b> 4:11 11:3,4<br/>15:2 21:9 27:15<br/>45:17 47:22 50:5<br/>64:10 72:5,10 96:20<br/>98:4 99:25 116:5<br/>129:9,14 133:24</p> <p><b>works</b> 46:18 69:10</p> <p><b>world</b> 20:20 21:1<br/>23:15,17 112:5</p> <p><b>world's</b> 54:17</p> <p><b>worried</b> 79:20<br/>127:12,23</p> <p><b>worry</b> 56:12 80:13</p> <p><b>worse</b> 128:13</p> <p><b>worst</b> 85:21</p> <p><b>written</b> 8:20 48:18<br/>49:18 67:5,14<br/>138:17</p> <p><b>wrong</b> 70:19</p> <p><b>wrote</b> 73:22</p> <hr/> <p>Y</p> <hr/> <p><b>y'all</b> 130:25</p> <p><b>yellow</b> 6:10,15 50:9<br/>51:16,18,22 55:3,6<br/>84:21 92:25 99:18<br/>114:8 130:7</p> <p><b>Y-e-r</b> 119:19</p> <p><b>Yerkey</b> 3:18 117:19<br/>119:17,19</p> <p><b>yet</b> 4:24 30:5,7 81:20<br/>104:19,22 122:8<br/>135:13</p> | <p><b>York</b> 24:17</p> <p><b>you'll</b> 6:8 9:10 32:8<br/>33:7 51:14 81:15<br/>127:19</p> <p><b>young</b> 85:2</p> <p><b>younger</b> 48:3 60:20</p> <p><b>youngest</b> 66:12</p> <p><b>yours</b> 6:25 99:12</p> <p><b>yourself</b> 4:22 17:18<br/>139:2</p> <p><b>youth</b> 85:4</p> <p><b>you've</b> 16:20 33:17<br/>40:5 47:21 50:6<br/>66:23 103:12,15<br/>109:16 125:4</p> <p><b>Ypsilanti</b> 1:8,12,13<br/>54:11,12</p> <hr/> <p>Z</p> <hr/> <p><b>zapped</b> 59:6</p> <p><b>Zebra</b> 94:25</p> <p><b>zip</b> 51:10 57:3 63:18<br/>66:20 79:9 81:11<br/>84:25 93:14 99:22<br/>102:10 111:13<br/>117:22 119:21<br/>123:16 127:2</p> |
|---|--|---|

NEPA SCOPING PUBLIC MEETING

-----  
In Re: :

:

Great Lakes and Mississippi :

River Interbasin Study :  
-----

Ypsilanti, Michigan

Tuesday, March 8, 2011

Proceedings had in the above-entitled matter  
before U.S. Army Corps of Engineers Panel Members,  
at the Ann Arbor Marriott Ypsilanti at Eagle Crest,  
1275 South Huron Street, Ypsilanti, Michigan, at  
5:35 p.m.

1 A P P E A R A N C E S

2 PANEL MEMBERS:

3

4 John Goss - Asian Carp Director, White House

5 Council on Environmental Quality

6 Major General John Peabody - Commander Great Lakes

7 and Ohio River Division, U.S. Army

8 Corps of Engineers

9 Dave Wethington - CAWS Project Manager

10 Michael Saffran - Other Pathways Project Manager

11 Kevin Bluhm - Moderator

12

13 List of speakers: PAGE

14

15 Dan Keifer 52

16 Tom Quail 57

17 Dennis Fijalkowski 66

18 Kurt Wolak 80

19 Charles Tazzia 87

20 Lia Montgomery 91

21

22

23

24

25



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

2 MR. BLUHM: The time is 5:35. I would like  
3 to call this second session for the day to order.

4 My name is Kevin Bluhm. I'm the moderator  
5 for this evening's session. And I work out of the St.  
6 Paul District U.S. Army Corps of Engineers. And I'm  
7 very glad and thankful that you're all here with us  
8 this evening.

9 This is our twelfth meeting second session  
10 here for the GLMRIS, the Great Lakes and Mississippi  
11 River Interbasin Study, NEPA Public Scoping Meeting.  
12 I've got to clear my mouth here.

13 Before we get started, I would like to just  
14 ask if you have a cell phone, any type of electronic  
15 device here, you turn it into a mute or a quiet mode.  
16 That would help us out a little bit.

17 And if you're not totally familiar with our  
18 facilities here, if you need to excuse yourself to use  
19 the restroom or take a call, out in the hallway here  
20 and just down the hall is where the restrooms are and  
21 the open public spaces there. Feel free to excuse  
22 yourself at any time if you need to during our meeting.

23 Okay. If you haven't got a packet of  
24 materials like this one right here, just hold a hand  
25 up, and we can make sure we get a packet to you.

1 Anybody that stopped at the registration desk, however,  
2 should have one. And I'll go through those materials  
3 momentarily.

4           The green half sheet here is our agenda. This  
5 is what we'll be following as our roadmap for tonight's  
6 meeting.

7           The quarter-size sheet and the blue booklet  
8 this is a packet designed to give you some study  
9 overview information and a synopsis of what GLMRIS is  
10 all about.

11           The white half sheet here is the piece that's  
12 most important for where we're at in our study. In the  
13 public comment period we want to make sure we get any  
14 and all comments that you have. The center section, as  
15 well as the back panel is designed to allow you room to  
16 write down and start any comments or dialogue you have  
17 for us. If you need more of these or additional room,  
18 you can add comment sheets to that.

19           I just want to know or let you know that you  
20 can drop them off with us today or if you need some  
21 more time you can take them with you, just noting that  
22 the comment due date is March the 31st. So at the end  
23 of the month.

24           The lavender or purple sheet is a frequently  
25 asked question sheet designed to try to cover some of

1 the more interesting questions that we get asked most  
2 frequently.

3 The salmon-colored sheet here talks about  
4 some of the other efforts that are going on. And  
5 you'll hear more about that in our presentation.

6 And the gold-colored sheet is a sheet that we  
7 ask that if you would like to make a formal  
8 presentation to the panel that you fill this out. If  
9 you haven't filled this out and would like to at this  
10 time make a comment to the panel, I would ask that you  
11 fill one of these out, and then take it to the  
12 registration desk just outside the doorway here.

13 And if you have any materials that you would  
14 like to present or submit as part of your statement or  
15 testimony, the blue sheet is a nice piece to accompany  
16 anything that you turn in to help us keep it in proper  
17 order and make sure that the correct appropriations  
18 with that.

19 And then the last sheet here is a set of the  
20 slides that the Corps will be using. And this is just  
21 to give you a little bit of a chance to write down or  
22 jot any comments as we go through some of those slides.  
23 And, again, this packet is available in the hallway.

24 Okay. All right. And then, also, our  
25 meeting itself is designed in two different goals for

1 this evening's meeting. We want to make sure that,  
2 number one, we present information about the study to  
3 you. And that's the first part that we're starting  
4 now.

5 And then our second part is to solicit your  
6 comments on the significant issues that should be  
7 included in our GLMRIS efforts and on the insignificant  
8 issues that can be eliminated from further study.

9 The Corps is hosting 12 public meetings  
10 throughout the study area in an effort to provide  
11 opportunities for those interested in the study to  
12 learn about the study and then also provide your oral  
13 comments. Please take note the NEPA public scoping  
14 period does close on March the 31st.

15 As indicated on the agenda, this public  
16 meeting is organized in two sessions. An identical  
17 presentation was given earlier this afternoon followed  
18 by the comment period. The first one ended at about 5  
19 o'clock. And we are starting roughly at 5:30.

20 The break was designed to give us a chance to  
21 reset the room and ask any questions you have. Just  
22 keep in mind any of the comments that you may have had  
23 during the break are not part of the public scoping  
24 document. And if you want to make sure that those are  
25 entered in, use the comment form or take the liberty

1 once we are in the comment period again to state those  
2 in the microphone for us.

3 Also, after the meeting is over, in a similar  
4 fashion to our break we just had, if you have any  
5 additional comments or questions you would like to ask,  
6 feel free. The team members will be available once  
7 we've adjourned the meeting tonight.

8 I would like to now announce the panelists to  
9 you. Our first panelist nearest to myself is John  
10 Goss. John is the Asian Carp Director for the White  
11 House Council on Environmental Quality.

12 Next to him Major General John Peabody,  
13 Commander of Great Lakes and Ohio River Division, U.S.  
14 Army Corps of Engineers.

15 Third on the table Mr. Dave Wethington. Dave  
16 is the GLMRIS Project Manager.

17 And last on the table Mr. Mike Saffran, the  
18 Other Pathways Project Manager.

19 And you'll hear from all of these men in just  
20 a few seconds.

21 Also, we are in the Detroit District, and the  
22 Detroit District Commander Mike Derosier. Where is  
23 Mike at? He's in the back there. He's hosting our  
24 meeting. And we want to thank you for the facility.

25 And any comments from you?

1 MR. DEROSIER: Just our pleasure in hosting.

2 MR. BLUHM: Very good.

3 And also for those that have been monitoring  
4 us, this is a reschedule. The last time we were  
5 supposed to be in town earlier last month we had quite  
6 a bit of snow coming through the area and appreciate  
7 the chance to reschedule this and have a chance to come  
8 back into town.

9 Okay. With that said, the introductory  
10 remarks are over. I'm going to turn the meeting over  
11 to Mr. Goss and give a little bit of an update on the  
12 Asian carp information.

13 MR. GOSS: Thanks a lot. And that's the last  
14 time I'm going to thank you, Kevin. We're not doing  
15 this again. Just teasing. Because we've been on this  
16 magical mystery tour for about eight weeks, and this is  
17 the twelfth stop.

18 So I am coordinating a pretty significant  
19 effort to stop the Asian carp from getting in the Great  
20 Lakes. It is an unprecedented collaborative effort  
21 amongst federal agencies, state agencies and some  
22 Chicago agencies at this point. And we are working on  
23 expanding that to include all the stakeholder groups  
24 that are interested. And we're certainly happy to have  
25 individuals and organizations that you represent to be

1 part of this project.

2           This is a process. This Great Lakes and  
3 Mississippi River Interbasin Study will take some time  
4 to do it properly. And we'll be talking about that for  
5 the next half hour or so.

6           The role that everyone can play is to help  
7 evaluate, help determine as we go along if we're moving  
8 in the right direction. And there will be a number of  
9 points over the course of this project where we're  
10 going to need to check back with everybody and see if  
11 it makes sense and if we're on the right track. So,  
12 again, this is just the first round, and you can expect  
13 more.

14           The Obama administration to the Great Lakes  
15 is strong. And I think you can see just by the fact  
16 that the Council on Environmental Quality decided to  
17 become involved. They are the policy, environmental  
18 policy, people in the White House. And so I'm here  
19 representing them. And I report to Nancy Sutley who's  
20 the chair of that.

21           Also, I want to say up front that we have  
22 some effective electric barriers that are working. We  
23 have proactively addressed other pathways, which we'll  
24 be talking about that have been identified just in the  
25 last six months that needed immediate attention, and

1 we've given them attention. And we're working together  
2 in a very coordinated way to implement a strategy that  
3 is covering a lot of bases beyond just the Chicago  
4 Waterway. So that's what I wanted to share with you is  
5 some of the things that are happening with Asian carp  
6 beyond just this study.

7 I think you know that we've been dealing with  
8 a lot of invasive species for years. Certainly this is  
9 the first chance we've had to stop one before it gets  
10 established, and we're committed to doing that. That's  
11 why we're here.

12 These fish are very efficient. They are  
13 consuming vast quantities of plankton wherever they  
14 reside, often outcompeting and starving our native  
15 species. We are very concerned about the Great Lakes.  
16 I'm a fisherman. We know that perch, walleye, white  
17 fish, small mouth, steelhead, salmon all could be in  
18 jeopardy. We know that.

19 We also know that the biggest area of concern  
20 is on the south side of Chicago where we have a  
21 waterway that is the focus of most of the discussion  
22 here. On the left you'll see the original streams. So  
23 the Chicago River flows from basically just from the  
24 downtown area and a little bit up north towards  
25 Evanston, down and out in Navy Pier. That was the



1 original stream.

2           The Calumet Rivers that come from the Indiana  
3 side went out to the lake. They're on the south side  
4 of Chicago. The Des Plaines coming down you'll see on  
5 the other map now is connected by a manmade waterway  
6 that was put in a hundred years ago.

7           Chicago needed a draining system. They had a  
8 problem in the 1890s. Their water supply from the lake  
9 was contaminated by their own waste. And the change  
10 that was made was to change the drainage and send it to  
11 the Mississippi. So water actually flows in now from  
12 Lake Michigan, not a lot, but a little bit, and then  
13 the vast majority of the water in the Chicago Waterway  
14 is stormwater and treated wastewater from their  
15 treatment plants. So it's a very unique drainage  
16 system and disposal system for that whole area of about  
17 6 million people depending on it.

18           Again, to refresh your memory, you probably  
19 looked at these maps, but very quickly coming back from  
20 Lake Michigan there are five different points of water  
21 flow that come down to one point at the electric  
22 barriers. And another good news item this week is that  
23 the third electric barrier is fully functioning, being  
24 safety tested. And we now have additional assurance  
25 that fish cannot get through that barrier. And General

1 Peabody can speak to that later. We'll be talking  
2 about it I'm sure with questions.

3 The carp population is down here on the  
4 Illinois River. You can see about where the Kankakee  
5 comes in near Dresden Lock and Dam. There is an  
6 established large collection of Asian carp. In fact,  
7 the Illinois River now has the largest Asian carp  
8 concentration -- concentrated population of any river  
9 in the world. And it's almost all one species.

10 So we are holding them in check right now.  
11 The barriers are holding them. And between the  
12 barriers and Lake Michigan there are a number of things  
13 I want to talk about.

14 A couple of things on the strategy is that we  
15 have a Coordinating Committee. I chair that with  
16 Cameron Davis. And he is the leader of the Great Lakes  
17 Restoration Fund. The money for about two thirds of  
18 these carp-controlled projects comes from the Great  
19 Lakes Restoration Fund, and then there's some money in  
20 base budgets. Going into the president's budget for  
21 2012 we have almost \$30 million in base budgets, Corps  
22 of Engineers, Fish & Wildlife Service, USGS, that will  
23 carry on these projects. So it's going to be less  
24 dependent on the Great Lakes Restoration Fund beginning  
25 in 2012 if the president's proposals are adopted.

1           This group is the coordinating and policy  
2 group. And we have added representatives of the  
3 states. This last fall the governors designated two  
4 people from each state. So they're represented with  
5 the federal agencies and the Chicago and State of  
6 Illinois people that are the project management team  
7 for this.

8           Another development this last year was in the  
9 analysis of other pathways it was determined that  
10 immediate action was needed in Fort Wayne, Indiana at  
11 the Eagle Marsh. Mike Saffran will give the details. I  
12 just want to say this proves that the Corps of  
13 Engineers can identify something and recommend an  
14 action and get something done. This was accomplished  
15 basically in three months. And so now there is a fish  
16 fence up to keep an established carp population in the  
17 Wabash, in my state in Indiana in the Wabash. They're  
18 all the way up to Huntington close to Fort Wayne from  
19 working their way through a floodplain to get to the  
20 Maumee to get to Lake Erie. They saw it, the action  
21 was taken.

22           Likewise, on the Des Plaines River -- that  
23 map is not up there anymore, but it runs parallel to  
24 the ship canal. It was identified by the Corps that  
25 there were points where floodwaters could allow carp to

1 go from the Des Plaines River into the ship canal, and  
2 that was above the barrier, between the barrier and the  
3 lake. There's a 13 mile fish fence up there now.  
4 Again, constructed on a rapid schedule and done under  
5 budget, way ahead of the projected schedule by the  
6 Corps of Engineers. So these guys are responding.  
7 They're working hard on this.

8           For 2011 we will continue the sampling and  
9 monitoring, looking at continuing electro-fishing and  
10 netting, also trying out some different types of nets  
11 and gear that are going to be experimented with.

12           And I want to show you the results. I've got  
13 it on another slide. This year by electro-fishing  
14 pretty constantly through the year over 33,000 fish  
15 were brought up -- shocked, brought up, identified by  
16 electro-fishing and then other netting, commercial  
17 netting, total. One bighead carp was found. There was  
18 one. But that's one out of 36,000 fish that were  
19 identified.

20           Research and development is another big part  
21 of the strategy that's funded by this federal funding  
22 looking at carp control methods that can be used in the  
23 interim that could possibly be part of the long-term  
24 solution and then also can be applied in our rivers. We  
25 have a tremendous challenge in the whole Mississippi,

1 Ohio, Missouri drainage basin to figure out how to get  
2 it back to a natural balance with our native fish.  
3 Asian carp have completely taken over many stretches of  
4 those waters.

5           The research and development list that you  
6 see there that's about four or five out of about 15  
7 projects that are already in motion, and we intend to  
8 add more as projects come forward. We're going to look  
9 for the money to keep adding projects.

10           One area of research is on toxins to find  
11 something that would be Asian carp specific and  
12 hopefully not taking out other fish.

13           Seismic sonic technology to disrupt their  
14 activities possibly at their spawning time in their  
15 spawning areas and tributaries making it so  
16 uncomfortable that we're not going to have effective  
17 reproduction.

18           Also possibly to herd the fish to areas where  
19 they can be captured or possibly to eradicate fish with  
20 sonic underwater waves that would actually take them  
21 out.

22           Also, doing risk assessments. There's a  
23 variety of things that are being looked at both by U.S.  
24           and Canadian researchers to look at habitat,  
25 to look at food supplies, and to do another evaluation

1 all around the Great Lakes to determine what would be  
2 the projected impact if we had an outbreak of Asian  
3 carp, where are they likely to locate, what are the  
4 food sources they're looking for, and then we can begin  
5 to develop a response plan based on that kind of  
6 information.

7           Also, looking at other -- besides eDNA,  
8 looking at other ways to track fish. Maybe there are  
9 some other things that could be identified. And  
10 pheromones as an attractant is another idea where we  
11 try to use it like a magnet to bring Asian carp to an  
12 area where they could be eradicated.

13           So that's just a few. I just wanted to give  
14 you a feel for other things besides the study we're  
15 talking about tonight where things stand.

16           Just in conclusion, we do feel confident that  
17 the barriers are working. That's buying us time to  
18 work very carefully on these analyses to get the best  
19 solution. We need to get the right solution for the  
20 long term to stop invasive species from moving from the  
21 lakes to the rivers and from the rivers to the lakes.  
22 And we are determined to get it done right. We need  
23 your help. Thanks.

24           GENERAL PEABODY: Okay. Good evening,  
25 everybody. I really appreciate you coming out this

1 evening. And we look forward to a dialogue with you.  
2 We're going to go through a presentation. We'll try to  
3 keep it as concise as we can. And then we look forward  
4 to your comments and questions.

5 And one of the things we were able to do in  
6 the last session is provide a lot of responses to some  
7 of the concerns, whether they were phrased as a  
8 question or not. We hope to be able to do that  
9 tonight.

10 Let me just comment, though, that  
11 unfortunately I have to leave here personally at 7:30.  
12 I've got a flight. I've got to be in Washington  
13 tomorrow for Congressional testimony. And I probably  
14 won't get in until midnight, if everything is running  
15 on time. So I will have to leave at 7:30. But I  
16 encourage you to stay here as long as you wish to  
17 dialogue with our panel whether I'm present or not.

18 Mr. Goss mentioned a couple of times that the  
19 fish barrier is effective. And I just want to  
20 highlight that, first of all. Because one of the  
21 concerns that we have is -- and one of the accusations  
22 we get is, "Well, you're not taking action." And  
23 that's just not the case.

24 In fact, we just completed the third barrier.  
25 It is ready to go into operation now. The only reason

1 it's not in operation is because it's pending the  
2 safety report that we're required to deliver to the  
3 Coast Guard and for them to evaluate. Once they've  
4 completed their evaluation, then we'll be able to turn  
5 it on.

6 If something happens to the other barriers  
7 that are operating, we'll instantly turn that on and  
8 then just deal with the consequences with the Coast  
9 Guard on an expedited basis.

10 The reason we know the fish barrier is  
11 effective is because all of the research that we have  
12 done in the laboratory and all of the field validation  
13 efforts we've done in the field tells us that. Just  
14 very briefly we've done a series of tests at our  
15 Engineering Research and Development Center in  
16 Vicksburg, Mississippi in the laboratory which tell us  
17 that the fish barrier effectively stuns anything larger  
18 than five and a half inches. Now, there's a data gap  
19 between about five and a half to about 2.8 to three  
20 inches, I think.

21 Is that right, Kelly?

22 MS. BAERWALDT: Yes.

23 GENERAL PEABODY: So there's an area there  
24 that we're not sure what's going on.

25 But we also know that fish between about 1.7



1 to 2.8 inches, about two to three inches, not all of  
2 those fish are necessarily stunned. These are very,  
3 very small fish. And they're what the fish biologists  
4 call young-of-the-year.

5 So if the operating parameters are not  
6 necessarily going to stun the young-of-the-year fish,  
7 why don't we turn the fish barrier operating barrier  
8 parameters up? There's two reasons for that.

9 First of all, the young-of-the-year fish are  
10 not in that pool according to the fish biologists. The  
11 closest breeding population is three pools down below,  
12 the fish barrier below, the Lockport Pool. And the fish  
13 biologists tell us that these young-of-the-year tend to  
14 congregate where they're born. Because when they're  
15 really small fry, they tend to get eaten by other fish.  
16 So they like to hang out in little nooks and crannies  
17 where they might not be able to be found.

18 The other concern that we have is that in  
19 order to go to higher operating parameters we have to  
20 do so in a safe manner. And already the Coast Guard --  
21 this is the one location in the United States of  
22 America where the Coast Guard will not jump into the  
23 water and rescue you if you fall in, because you could  
24 die from the electrical shock if you fall in the water  
25 there. So first advice for everybody is don't navigate

1 that reach of the river unless you really have to. And  
2 second advice is if you do navigate that river, make  
3 sure you follow the Coast Guard rules. And for God  
4 sake don't fall in the water there, because it is  
5 dangerous. There's no question about that.

6 Now, Kelly Baerwaldt here -- Kelly, raise  
7 your hand for everybody -- is a fish biologist with the  
8 Corps of Engineers, and she's a real professional.  
9 She's been absolutely determinative in our ability to  
10 understand all the things that we need to in order to  
11 make the fish barrier effective. And she's conducted a  
12 series of field validation tests that's focused  
13 primarily, not exclusively, but to simplify it  
14 primarily on the telemetry.

15 So Kelly will do surgery on these fish of all  
16 kinds of size. We don't put Asian carp there, because  
17 we're not interested in putting Asian carp closer to  
18 the barrier than they already get there naturally. And  
19 put little radio tags in these fish. And then she has a  
20 series of radio receivers in and near the walls of the  
21 canal. And so far of, I think, 95 fish we've tagged  
22 we've gotten hits on 82 of them.

23 Is that right?

24 MS. BAERWALDT: We've got 105. And we're  
25 tracking about 70 percent of them.

1           GENERAL PEABODY:   Okay.   So 105.   We're  
2 tracking about 70 percent.   So a little over 70 of  
3 them.

4           And 600 -- over 600,000 hits you've received  
5 on those 70 fish, 70-plus fish.   Six hundred thousand  
6 hits.   So we've detected these 70 fish thousands of  
7 times each, and none of them have moved out of the pool  
8 where they are.

9           So that gives us a very high confidence that  
10 the fish don't move between the barriers.   That's very  
11 good information.   So the lab tests are being validated  
12 in the field.   Now, we're doing more research, but all  
13 the information we have gives us extremely high  
14 confidence that the fish barrier works.

15           Now, let me go on to the purpose of today's  
16 meeting, which is the Great Lakes and Mississippi River  
17 Interbasin Study.   But before I do that, first a paid  
18 nonpolitical advertisement from your local Army Corps  
19 of Engineers recruiting office.   The reason I wear this  
20 particular uniform it's the uniform our soldiers wear  
21 when they go into a combat zone.   And it's as a  
22 physical reminder not just to myself, but to everybody  
23 I interact with that this is a Nation at war.   Whether  
24 we personally agree with the objectives or the reasons  
25 for going to war, we are a Nation at war.

1           And we have lots of sons and daughters,  
2 brothers and sisters, aunts and uncles, moms and dads  
3 in harms way doing the Nation's bidding. And they are  
4 supported by a whole host of professionals, civilians,  
5 whether they're contractors or Department of the Army  
6 or Department of Defense civilians, including Corps of  
7 Engineers professionals.

8           Currently today, and you see some of their  
9 photos up on the slide, we've got 87 professionals from  
10 the Great Lakes and Ohio River Division, the area I'm  
11 responsible for, and well over 600 from the entire  
12 Corps of Engineers, deployed in Iraq and Afghanistan  
13 building facilities not just for our service members  
14 but also in support of the local Nations and helping  
15 those local Nations build their own construction  
16 capacity.

17           Because it is our belief that we're not going  
18 to win this conflict through force of arms alone. In  
19 fact, if you read the Insurgency Doctrine, you'll  
20 understand that that's virtually impossible. The way  
21 you win insurgencies is through the classical phrase  
22 "Winning the Hearts and Minds." And one of the ways of  
23 doing that is by building infrastructure and more  
24 importantly, building capacity in the local populous so  
25 that they can run their own governments in an effective

1 manner.

2           And we're trying to do our part. And we've  
3 got tons of volunteers. We have now today over 10,000  
4 Army Corps of Engineers civilians who have volunteered  
5 to deploy overseas and serve you by volunteering. They  
6 don't have to go. They're all volunteers to do this  
7 important work. So just a reminder on that.

8           Okay. Now, let's get to the business we're  
9 here for. Great Lakes and Mississippi River Interbasin  
10 Study, acronym GLMRIS. Up there you see the study  
11 authority. I'm not going to read it to you, but  
12 highlight a couple of things.

13           We're told to study a range of options and  
14 technologies available. So don't invent what you can't  
15 find or what you can't reasonably develop in a  
16 relatively short period of time. To prevent the spread  
17 of aquatic nuisance species between the Basin Divide,  
18 between the Great Lakes and the Ohio River. So that's  
19 the task.

20           A couple of points of emphasis. Hydrologic  
21 separation, which has received a lot of media  
22 attention, is an alternative that we will study. So  
23 that's the physical separation of the watersheds  
24 hydrologically. Some people call it ecological  
25 separation. But things move through the air, and we're

1 not dealing with the air. We're only dealing with  
2 stuff that moves through waterways in accordance with  
3 the study requirements.

4           Second, and this has also received some media  
5 attention, the goal and the task is to achieve a state  
6 of prevention. But all of our engineering knowledge,  
7 judgment and experience tells us that perfect 100  
8 percent solutions, total prevention, may not be  
9 possible. I didn't say won't be. I said may not be.  
10 Nature has a way of overcoming what man builds. Look  
11 at Pompeii as one example. Look at Mount St. Helens,  
12 which occurred in most of our lifetimes.

13           There are things that the Corps of Engineers  
14 -- as wonderful as we are, there are things that we are  
15 not necessarily able to achieve. Now, I'm not saying  
16 we can't. I'm just saying that manmade physical  
17 obstacles may not be the only solution. That's what the  
18 Corps of Engineers is expert at is physical engineered  
19 solutions; right?

20           But Mr. Goss talked to you at a little bit of  
21 length about biological controls. And, after all,  
22 these are biological organisms that actually may be  
23 more susceptible to biological than physical controls.

24           Here's the point. We don't know without  
25 going through the study process what the type of

1 solutions are that are going to be effective. Our  
2 experience tells us that it's likely going to be a  
3 suite of solutions that we will incrementally employ as  
4 technologies and capabilities make themselves clear to  
5 us.

6 In the meantime, it is our judgment and our  
7 recommendation we'll do whatever the Nation tells us to  
8 do. But it's our recommendation that we follow the  
9 tried and true study process that we have, that we  
10 objectively and dispassionately study all the  
11 alternatives that are out there, and that as the  
12 information matures and it becomes clear what might be  
13 possible, we cycle out recommendations and perhaps  
14 pursue those recommendations incrementally without  
15 trying to get to some ideal perfect or preconceived end  
16 state. That's our approach.

17 Okay. So let's talk about where we're doing  
18 this. Well, the map tells you here. It's primarily  
19 along the dashed line between the Upper Mississippi  
20 Watershed, which is the Ohio Valley Watershed and the  
21 Upper Mississippi Watershed, and the Great Lakes in the  
22 brown there.

23 You see the little red square? That's where  
24 the Chicago Area Waterway System is. And that's the  
25 focus. That is the focus. That's the primary focus.

1 Why? Because that's the only place on that boundary  
2 line that we've been able to find that has a  
3 continuously flowing aquatic connection between the two  
4 basins. Therefore, it is the most susceptible to  
5 migration by aquatic species between the two basins.

6 This is an enormous task. We're talking  
7 1,500 miles of watershed boundary. We're talking in  
8 general -- most of you are from this area. You  
9 understand relatively flat terrain. That means it's  
10 hydrologically complex. Because when water falls on  
11 it, small nuances in the typography can make a big  
12 difference for how that water flows.

13 Therefore, it's difficult to understand. And  
14 in a lot of cases we don't necessarily have the digital  
15 mapping imagery that can inform with precision how that  
16 water is going to evolve. We really need to consult  
17 with local experts.

18 Okay. Again, I'm not going to go through  
19 each one of these points, but this is the slide that  
20 tells you what's in on the left and what's out on the  
21 right. So what's in is in green. What's out is in  
22 red. If it moves by water, it's in. If it moves by  
23 land or air, it's not.

24 It's not just fish. We think fish, but if it  
25 floats, and there's some plants that float, it's



1 included. If it hitchhikes, like a parasite, on  
2 something else, then that's included, also.

3 I've already talked the locations. I want to  
4 emphasize that the Corps of Engineers does not have  
5 authority in Canada and neither does the United States  
6 Congress. And so our authority extends to the U.S.

7 side of the Basin Divide.

8 The Canadians are certainly interested and  
9 concerned with this. We have discussed this with them  
10 primarily through the International Joint Commission,  
11 but also through other forums. And we're very  
12 interested in some study efforts that they're  
13 undertaking. We'll look at anything that they provide  
14 us.

15 I kind of hit a lot of the stuff on the left  
16 there, the rest of that. And we'll get into some of  
17 that.

18 But I also want emphasize there's lots of  
19 other policies and laws outside of the specific study  
20 authority that we have to follow. And the Corps needs  
21 two things to do something for this country. The first  
22 thing we need is an authority. Check that block. We've  
23 got it.

24 The second thing we need is appropriations,  
25 funding. And the money didn't come all that quickly on

1 this. That's of little concern now. The good news is  
2 we are very close to our full capability for 2011 and  
3 our full capability for 2012 in the president's budget  
4 should Congress pass that proposal that the president  
5 sent to them.

6 But we're also going to do an Environmental  
7 Impact Statement. And there's lots of other laws like  
8 NEPA. That's not the only one, but lots of other laws  
9 and policies that we have to comply with, too, that  
10 also form our study process.

11 Okay. So how are we going to get this done?  
12 Well, we're going to have the first focus area, Chicago  
13 Area Waterway System, that we already talked about, and  
14 then everything else, which is anything else anywhere  
15 outside that waterway that might have an aquatic  
16 connection because of a rain event. And there's  
17 several of those that we know exist.

18 I'm not going to talk about our organization  
19 chart, but you need to know that this is not just the  
20 Corps of Engineers. This is a very complex,  
21 complicated, difficult, challenging problem. We think  
22 we're pretty talented, but this takes a really truly  
23 total team effort. That's why Mr. Goss is here today.  
24 That's why we have the written agreement to collaborate  
25 from the Fish & Wildlife Service and EPA. That's why we

1 have verbal agreements with the U.S. Geological Survey  
2 and other agencies. And that's why we're reaching out  
3 here to you today, because we need all the help that we  
4 can get.

5 Now, I talked about maybe potentially getting  
6 to interim solutions. We definitely know that we will  
7 be able to give inter-reports on the data that we  
8 collect. And we have to collect this data, because our  
9 charge includes analyzing the benefits and the costs  
10 and understanding the impacts of various alternatives.  
11 That's a legal requirement under the National  
12 Environmental Policy Act. We do not have -- in fact,  
13 I'm not even aware of any instance where the Congress  
14 has waived that. I think CEQ from time to time on very  
15 rare instances has provided some narrow exceptions. But  
16 so far that does not apply to this case.

17 Okay. Let's go on to the next slide. So  
18 we've already talked about a lot of this. What's  
19 interesting about this slide is it gives you some  
20 photographs of some of the stuff. And it's not just  
21 the fish that jump out of the water, the Asian carp on  
22 the left, which is what all of us tend to focus on, but  
23 these micro plants and strange little small insects  
24 that can move through aquatic pathways.

25 We're going to look at all of these kinds of

1 species. We know there's over 180 of them in the Great  
2 Lakes alone. There's somewhere on the order of two or  
3 three, maybe four dozen in the Mississippi Watershed  
4 Basin. And we'll work with the Fish & Wildlife Service  
5 and other agencies as appropriate to determine which  
6 aquatic nuisance species are the ones that are of  
7 greatest concern likely to have the most impact,  
8 characterize those, and then figure out what are the  
9 controls that could be effective in dealing with that.

10 Okay. At this time I'm going to ask Mr. Dave  
11 Wethington, the Project Manager for the Chicago Area  
12 Waterway System, Focus Area I, to highlight the  
13 approach to that.

14 So, Dave.

15 MR. WETHINGTON: Thank you, sir. Appreciate  
16 it.

17 Thank you all for coming out. Again, my name  
18 is Dave Wethington. I'm the Project Manager with the  
19 Army Corps of Engineers in Chicago.

20 I just want to spend a couple of minutes this  
21 evening guiding you over just this one slide to talk to  
22 you a little bit about the Chicago Area Waterway System  
23 in a little more detail and then as well as the  
24 planning process.

25 So you'll notice on the slide above me on the

1 right-hand side you see a picture of the Chicago area.  
2 You see also the numbers 1 through 5 that are located  
3 along the lakeshore going from north to south. And  
4 those five points are the points at which the lakes --  
5 or the waters of the Great Lakes and the waters of the  
6 Mississippi River Basin have the opportunity to  
7 interact.

8           What's unique about this system is that all  
9 five of those streams will flow into a single channel.  
10 That's the Chicago Ship and Sanitary Canal. Much like  
11 the five prongs of a fork would flow into a single  
12 handle.

13           And it allows us a strategic advantage, which  
14 is where we've constructed the current electric barrier  
15 system, point number 7 up there behind me. Because that  
16 acts as, in effect, a control point toward basically  
17 controlling right now the Asian carp from getting from  
18 the Mississippi River Basin into any of those five  
19 points along the shores of Lake Michigan.

20           Another kind of unique feature about this  
21 system is that they have structures. And so we call  
22 some of them are controlled waterways and others are  
23 without any physical structures. Those would be  
24 uncontrolled waterways.

25           So points 1, 2 and 3 are considered

1 controlled waterways. Points 1 and 2, those are the  
2 red circles there, that's the Wilmette Pumping Station,  
3 which is a physical structure, and point number 2 are  
4 the Chicago Lock. Point number 3 is actually  
5 controlled by circle number 6 there, which is the T.J.  
6 O'Brien Lock and Dam. So 1, 2 and 3 are physically  
7 controlled by some sort of a structure that we can  
8 operate or close or maintain.

9 But what's really important to remember is  
10 that 4 and 5 are completely uncontrolled waterways.  
11 There is no physical structure that we can operate or  
12 maintain within those waterways that would provide an  
13 effective block.

14 And, remember, all five of those waterways  
15 flow into the same stream. So when you talk about  
16 closing the locks at Chicago to prevent the spread of  
17 Asian carp, that may stop one of the waterways, but it  
18 would be not an effective stop for the migration of  
19 Asian carp.

20 On the left-hand side is basically the  
21 process the Corps of Engineers uses toward approaching  
22 a feasibility study. Right now specifying problems and  
23 opportunities we've put together these multi-  
24 disciplinary teams within both the Corps of Engineers  
25 and then pulling in folks from outside agencies. But

1 it's also the reason why we're here today is to listen  
2 to you to specify those problems, those opportunities,  
3 what's important to you, and just as similarly what is  
4 maybe insignificant for further study.

5           So your thoughts, your opinions will help  
6 shape the direction of the study, will help scope our  
7 document and scope the purpose and the direction of our  
8 study. So it's very important. And, again, appreciate  
9 your presence here today.

10           From there -- and we're also doing this  
11 concurrently. While we're collecting this information  
12 is we're inventorying and forecasting conditions.

13           Now, what does that mean. The Chicago Area  
14 Waterway System has many uses. You probably have heard  
15 a lot about the commercial navigation or the passenger  
16 boat navigation. But it's also got uses, such as,  
17 recreational, water supply, water discharge.

18           I believe Mr. Goss mentioned earlier that a  
19 significant percentage of the makeup of the stream is  
20 actually about 70, 80, sometimes up to 90 percent of  
21 the Chicago Area Waterway System is comprised of  
22 municipal wastewater discharge. It's treated, but it  
23 is still municipal discharge. It's a very important  
24 pathway for the entire city of Chicagoland.

25           Another very important use of the Chicago

1 Area Waterway System is flood risk management. And  
2 this is a serious concern, because it does involve  
3 human health and life safety. It doesn't happen very  
4 often, maybe every couple of years, every five years,  
5 but there will be a significant rainfall event in the  
6 Chicago Area Waterway, in the Chicago area, that in  
7 order to deal with the stormwater that falls within the  
8 footprint of Chicagoland you need to be able to open  
9 the lock structures, the Wilmette Pumping Station, lock  
10 structures, to backflow water both into Lake Michigan  
11 as well as down toward the Mississippi River. This  
12 alleviates the potential for flooding in the downtown  
13 area as well as throughout the entire Chicagoland area  
14 affecting effectively millions of residents,  
15 businesses, industry.

16 So once we've identified what all these  
17 waterway uses are, we need to take that information and  
18 basically evaluate what would be the impacts of  
19 implementing some type of aquatic nuisance species  
20 control. The current ANS control that we are utilizing  
21 is the electric barrier system. And the uses -- or I'm  
22 sorry. The impacts on the waterway uses are fairly  
23 minimal. General Peabody mentioned the safety uses.  
24 That's a potential health, life safety risk that we --  
25 the mitigation of that risk there is easy --



1 sufficiently easy ways to do that.

2           If you talk about hydrologic separation,  
3 although it may be possible, there will be  
4 significantly other potential impacts to those existing  
5 waterway uses. So those all need to be evaluated. And  
6 potential negative impacts we need to evaluate the  
7 mitigation -- ways of mitigating those negative  
8 impacts.

9           So we take basically all this information and  
10 we put it through that planning process. We evaluate  
11 the effects. And really, remember, what we're looking  
12 at here is not what happens if aquatic nuisance species  
13 spread. It's how do we prevent the transfer. What  
14 kind of controls can we implement in the Chicagoland  
15 area or in the other pathways that Mike will describe  
16 to basically prevent the spread of aquatic nuisance  
17 species between the basins.

18           As was mentioned by both the folks who spoke  
19 before me, we are in close coordination with other  
20 federal agencies, state agencies, local stakeholders,  
21 private industry. So, again, we appreciate everyone's  
22 input and help with this study.

23           Thank you for your time and attention. I'll  
24 turn it back to you, sir. Thank you.

25           GENERAL PEABODY: Great, Dave. Thank you

1 very much. I appreciate that.

2 Now, Mike Saffran is going to talk about  
3 where we are with the other pathways study and the way  
4 forward.

5 Mike?

6 MR. SAFFRAN: Thank you, sir. It's a  
7 pleasure to be here.

8 It's really an honor to be able to work on a  
9 project of this significance. And I would like to just  
10 share with you the work that we've done recently on the  
11 preliminary risk characterization for the other aquatic  
12 pathways and basically what our plan to complete that  
13 risk characterization is.

14 When we started into the GLMRIS project,  
15 there was a lot of information already known about the  
16 Chicago Sanitary and Ship Canal and the relative risk  
17 it poses relative to species migration across the Basin  
18 Divide. For the other pathways, though, we had very  
19 little information when we started into this. And as  
20 Mr. Goss has already explained and Dave and General  
21 Peabody as well, there have been significant  
22 investments made in the Chicago Sanitary and Ship Canal  
23 to prevent Asian carp from migrating as well as other  
24 species of fish. But, again, very little known about  
25 the other pathways.

1           So General Peabody in a previous session used  
2 the word being outflanked by the Asian carp from a  
3 military term. But he challenged us last June to put  
4 together a plan and implement a plan to provide two  
5 things. One, an inventory of all the potential aquatic  
6 pathways that exist over more than a 1,500 mile long  
7 Basin Divide there that's shown on the map. And to  
8 perform a preliminary risk characterization relative to  
9 each of those pathways' ability to facilitate migration  
10 of species across the Basin Divide.

11           We put the plan together. And it was  
12 basically based on two things. Compile the best  
13 available information and consult the best available  
14 experts locally as well as within the Corps and the  
15 other agencies to help us perform the risk  
16 characterization. We got a tremendous amount of input  
17 from the Fish & Wildlife Service and the USGS up front  
18 in helping us to find the range of species that we  
19 needed to be concerned with, develop a list for the  
20 species that exist in the Great Lakes, not yet known to  
21 be in the Mississippi River Basin and, vice versa,  
22 invasive species in the Mississippi River Basin, not  
23 yet known to be in the Great Lakes. They helped us to  
24 significantly narrow those broad lists. There's over  
25 120 species that were identified for the Great Lakes,

1 not yet known to be in the Mississippi River Basin, and  
2 about 21 species in the Mississippi River Basin, not  
3 yet known to exist in the Great Lakes. So we got great  
4 help there.

5 We also got great help from the state DNRs  
6 and the USGS Water Science Centers in each of the  
7 states in helping us to identify where the aquatic  
8 pathways are and to be able to characterize hydrologic  
9 conditions at those locations.

10 We also had a fair number of Corps of  
11 Engineers folks that really did a lot of the legwork.  
12 So there was over eight districts of the Corps of  
13 Engineers involved in putting this together in a very,  
14 very short timeframe.

15 The results of the work, though, were pretty  
16 impressive for, again, about a 60-day study. We  
17 identified 36 locations along the Basin Divide where it  
18 appeared that there was a reasonable probability that  
19 an aquatic pathway formed and that could pose risk for  
20 species transfer. Eighteen of those locations we  
21 determined posed a significant risk for potential ANS  
22 migration or transfer across the Basin Divide. Those  
23 sites are the ones that are listed there along the  
24 divide that General Peabody is pointing out.

25 One of those locations really jumped out as a

1 very near term significant risk, and that was the Eagle  
2 Marsh location in Fort Wayne, Indiana. A very unique  
3 circumstance there. You've got two rivers that come  
4 together to form the Maumee there, the Maumee River,  
5 which flows into Lake Erie. You've got the St. Joseph  
6 River that drains southeast Michigan and it flows to  
7 the southwest to Fort Wayne. And then you have the St.  
8 Mary's River that drains west central Ohio and flows  
9 northwest into the town of Fort Wayne.

10           When you have a significant rainfall event  
11 there, the size of event that would typically occur in  
12 any given year, the water level rises enough that you  
13 have an actual backflow of the water from the Maumee  
14 Basin into the Wabash River Basin, and it occurs  
15 through something called the Junk Ditch into the Eagle  
16 Marsh, and then that's into the headwaters of the  
17 Wabash River.

18           When you have a 10 percent annual return  
19 frequency storm or the largest storm that you would  
20 expect to occur in any given ten-year period, the depth  
21 of the water across the Basin Divide is four and a half  
22 feet. That was considered -- well, that information in  
23 conjunction with the fact that there were very high  
24 populations of Asian carp in stretches of the Wabash  
25 River and established carp populations have been

1 observed within about 25 miles of the location of the  
2 Eagle Marsh really pose a significant set of  
3 circumstances.

4           We held a meeting in mid July with all the  
5 interested stakeholders. We had USGS there, U.S. EPA,  
6 Indiana DNR, the Natural Resources Conservation  
7 Service, an NGO called the Little River Wetlands  
8 Project. We had the local county surveyor. So we  
9 basically got all the interested parties and  
10 brainstormed on what could we do about this  
11 circumstance.

12           And we fairly quickly went to the solution  
13 that has already been described a little bit earlier  
14 that helped prevent the bypass of the electrical  
15 barriers in the Chicago area, and that is a fence sort  
16 of barrier.

17           And the Corps of Engineers looked at can we  
18 build that and do it quickly. For us to be able to  
19 implement something like that would have probably taken  
20 close to a year, because, one, we didn't have an  
21 implementation authority, which has already been  
22 discussed, and we also have to comply with the rules of  
23 the National Environmental Policy Act so that we  
24 produce an environmental assessment for anything that -  
25 - any type of an action that we would consider taking.

1           The Indiana DNR stepped up to the plate at  
2 that time and said, "Look, that's something that we can  
3 probably do and do much quicker." U.S. EPA got  
4 together and helped to make sure that funding was  
5 available for it. And in less than two and a half  
6 months, before the end of September, that fence was in  
7 place. And I say it's a fence. It's a fence on  
8 steroids. There's significant design features in it.  
9 It's really designed to protect against adult Asian  
10 carp, though. It's got about two-inch size openings in  
11 the fence. But that is a -- it's got a design life of  
12 five years. That's an interim solution that we feel is  
13 going to be very effective.

14           But we're also right now as we speak working  
15 on a set of options and technologies that can be  
16 implemented at the Eagle Marsh location to provide a  
17 permanent or long-term fix to that issue, to that  
18 problem.

19           For the other 17 pathways, and including  
20 Eagle Marsh, we're also in the process this year of  
21 completing the risk characterization. We've got the  
22 draft plan out right now for how we're going to do  
23 that. We hope to start implementing that in April and  
24 have, again, a report available before the end of this  
25 calendar year on the results of that risk

1 characterization. And that will help us greatly focus  
2 where our resources need to be applied to the other  
3 aquatic pathways.

4 Thank you, sir.

5 GENERAL PEABODY: Thank you, Mike. Appreciate  
6 that.

7 Okay. So what have we done so far in  
8 addition to what we've talked about? Well, on the  
9 left-hand side you can see the actual study process  
10 that we followed, which is kind of uninteresting to the  
11 public, but it's a process that -- and steps that we  
12 must go through in accordance with our policies.

13 But you can see what's more interesting to  
14 you on the right-hand side, the actual things that  
15 we've produced. So we've already executed a literature  
16 review of information on the Asian carp to help us  
17 focus on that specific species of concern. Remember,  
18 this is not just about Asian carp. It's about all  
19 invasive aquatic species.

20 Thanks to the support from the Fish &  
21 Wildlife Service, we have a draft white paper on  
22 aquatic nuisance species of concern. And they're going  
23 to help us narrow the focus on specific species to  
24 focus that that are of highest concern for a variety of  
25 reasons that they'll help us develop.



1           Mike talked about the preliminary risk  
2 characterization. So now we have a pretty good initial  
3 inventory of possible aquatic pathways, and we have a  
4 good list of which ones that need to be focused on  
5 first. And he described what we're doing with regard  
6 to that.

7           And then, of course, the most urgent action  
8 on the other pathways is Eagle Marsh, because we want  
9 to increase our confidence that any measures we put in  
10 that marsh are going to be effective. And it is our  
11 hope that by -- in about a year we'll be able to  
12 produce an alternative formulation briefing which will  
13 outline a number of options to take at that location on  
14 at least an expedited basis. But that timeline depends  
15 on how the facts and science evolves, which are  
16 unpredictable until we uncover it.

17           So this is the timeline that everybody is so  
18 thrilled with for the Great Lakes and Mississippi River  
19 Interbasin Study. And this timeline -- and this is not  
20 going to be make a lot of people happy, but this is  
21 truth. This timeline we believe is the best case  
22 scenario. So if everything goes pretty much perfectly,  
23 we don't have any huge surprises, and we're able to get  
24 all the data that we need, the science and the options  
25 and technologies leap out at us, this is -- it's about

1 a five-year study. And we're about a year into that  
2 process at this point now, maybe a year and a half.

3 So why is it going to take so long everybody  
4 wants to know. Well, there's legal requirements that  
5 we have to follow is the simple answer. And this is a  
6 complicated issue. The legal requirements, and they're  
7 multitude, but fundamentally they require us to  
8 understand the benefits, the costs and the impacts of  
9 various alternatives.

10 This issue is so complex, because it requires  
11 us to focus on a whole number of species as well. So  
12 some of these species move and operate biologically in  
13 different ways. What might be effective against one  
14 species, and Mr. Goss talked about some of the  
15 biological controls USGS is looking at Asian carp, may  
16 not be effective against another. A physical barrier  
17 that might be effective against one species might not  
18 be effective against another.

19 So to predetermine what the outcome is or the  
20 answer to the problem is to potentially ignore  
21 unobvious answers that may, in fact, turn out to be  
22 more effective once the study process is allowed to  
23 evolve. And that is very important.

24 We don't know before you start a science  
25 project -- and this is truly a science project. You

1 don't know in advance what the outcome of your science  
2 project is going to be. And to say that we know the  
3 answer and we know the timeline before we start the  
4 study process frankly is just not the way that the  
5 Corps of Engineers does business. It's not the way  
6 that the Congress and the Nation have told us to do  
7 business, and it should not be the way that we are told  
8 to do business.

9           However, if we're told to meet a certain  
10 timeline, if we're told that somebody knows the right  
11 outcome and we're supposed to do that outcome, we'll do  
12 our best to achieve that.

13           What I cannot do is pledge that we can meet  
14 the quality standards that we're required to meet by  
15 other provisions of law in a certain timeframe. So if  
16 we're told meet a timeline, other provisions of law  
17 will have to be waived in order for us to satisfy all  
18 provisions of law. We'll see how this evolves. We'll  
19 do what the Nation tells us to do.

20           Okay. We've already talked about the interim  
21 products and updates. We've pledged that as a very  
22 bare minimum the data that we gather will be published  
23 here. We really need the help of experts, scientists,  
24 academics and NGOs in particular to look at these  
25 products.

1           We will have periodic public meetings. I  
2 can't predict how that will evolve. Once we conclude  
3 this meeting, we're going to go back and go through all  
4 the major recommendations that we've had, and make  
5 appropriate alterations to our management plan.

6           But you see some of the things that we're  
7 going to do. We're going to do these navigation  
8 surveys. We're going to do fishing surveys. We're  
9 going to survey cultural and social resources. We're  
10 going to survey all kinds of environmental factors,  
11 water quality, water quantity impacts, and a whole host  
12 of other stuff that's not even listed on here to  
13 include flooding impacts that Dave talked about.

14           It is our hope and it is certainly our intent  
15 that if at all possible that as we get greater clarity  
16 on what the facts and the science tells us and as we  
17 get increased understanding of what options and  
18 technologies may be available that we'll be able to --  
19 those technologies and options that appear to be most  
20 promising we'll focus on. And if it's possible for us  
21 to cycle out interim reports and recommendations that  
22 will at least allow us to incrementally improve and  
23 reduce the risk associated with this problem, then  
24 we'll tackle that. But it's impossible to predict with  
25 certitude whether we'll be able to do that or not.

1           How can you help? Well, I've kind of already  
2 talked about this, but we need your input, and we look  
3 forward to your comments today. It's more about just  
4 your input, though. It's also about helping provide us  
5 the science-based facts, data and technologies that  
6 might be possible.

7           We had a gentleman come up to us after the  
8 last meeting who said that he had a company that's  
9 working with a firm in Poland, and this firm in Poland  
10 has a fish barrier capability that's mobile, more cost  
11 effective and better than what we're doing. I don't  
12 know if that's the case, but great. I got his card.  
13 We're going to look into it.

14           That's the kind of information that's really  
15 helpful for us, because we don't presume to know  
16 everything. We don't have all the leads. We need a  
17 whole bunch of Sherlock Holmes out there to investigate  
18 some of the leads and give us some suggestions, and  
19 we'll look into those. And we really look forward to  
20 your support in that regard.

21           This is the last event. This event you'll  
22 see if you look at Ann Arbor it says -- and, of course,  
23 we're actually in Ypsilanti. But it says February 3rd.  
24 Of course, we all know what happened that time. We had  
25 that big snowstorm. And I grew up in northern Ohio. So

1 I know well enough when not to fight Mother Nature.  
2 Sometimes Mother Nature has a way of being in charge.  
3 And there was no way I was going to try to fight that  
4 snowstorm. We could have gotten in. And if we had, we  
5 wouldn't have been able to conduct the meeting, because  
6 people couldn't have got to it.

7 So I apologize we had to delay that one  
8 meeting, but here we are today. This is the last  
9 meeting. And as a reminder, we'll take public comments  
10 until March the 31st. Then the formal public comment  
11 period will end.

12 We'll continue to have ways to engage the  
13 public. And one of those ways is through social media.  
14 So we have a Website. You can also go to  
15 Asiancarp.org, as Mr. Goss talked about. We're on  
16 Facebook. We're on Twitter. And we appreciate you  
17 signing up for that.

18 With that, I'll turn it back over to our  
19 moderator Kevin. Thanks so much. We look forward to  
20 your comments and questions.

21 MR. BLUHM: Thank you, sir.

22 GENERAL PEABODY: And thank you, sir.

23 Applause is welcomed and unexpected.

24 MR. BLUHM: All right. Very good. Thank  
25 you.

1           That concludes part one of this evening's  
2 meeting. Before beginning part two, I would like to  
3 note that the study Website is a good source for  
4 additional study information. Interested persons can  
5 subscribe to the study's E-mail list through that  
6 project Website as well. The Corps will use the GLMRIS  
7 E-mail list to distribute updates on such things as  
8 documents that have been added to the Website,  
9 opportunities for additional public involvement, and  
10 other important news and events.

11           The GLMRIS project Website can be found on  
12 any of the informational pieces you were given, as well  
13 as this little condensed version in the business card.  
14 Front and back has all the key information. So keep  
15 that if you want to stay informed as we go forward. And  
16 as the General mentioned, if you're in the tech age,  
17 GLMRIS has Twitter and Facebook accounts set up as  
18 well.

19           Okay. So now going to part two, moving into  
20 our oral comment period this evening. For those that  
21 indicated on their registration card that they wanted  
22 to make a brief three minute formal statement or ask a  
23 question, will have an opportunity to do so. If a  
24 person wants to ask a question in addition to making a  
25 comment, we ask that you manage your time to allow for

1 a comment, question and response. The panel will  
2 answer any questions that are, indeed, answerable.

3 I have a set of visual slides here that we'll  
4 use to help manage our time while you're speaking. When  
5 you begin a statement, a timer on the projector  
6 overhead here will turn to a green box for two minutes.  
7 After the two minutes, it will change to a yellow color  
8 and update the amount of remaining time every 15  
9 seconds until three minutes has passed. At the end of  
10 three minutes, it will turn to red. I'll ask if you are  
11 still speaking at that time that you make a conclusion  
12 statement. We feel this procedure is the most fair and  
13 will give everyone an equal opportunity to be heard.  
14 And that is the procedure we used this afternoon as  
15 well.

16 Also, before we begin, I would like to  
17 mention we have a stenographer with us. She's sitting  
18 just off to the side of the panel. She'll be recording  
19 any and all comments and questions that are brought to  
20 us. When you come to the microphone, we ask that you  
21 give us your name. If the spelling is difficult, ask  
22 that you might help us spell that out. Any organization  
23 or affiliation that you may represent. And if we can  
24 for statistical reasons get your zip code, that would  
25 be most helpful.



1           We've got a microphone positioned on either  
2 side, one labeled as blue line, the other one as yellow  
3 line. We had quite a number this afternoon. The list  
4 is a little shorter this evening. We've got a total of  
5 four people. And the numbering takes off from where we  
6 started this afternoon. So anybody with a blue card we  
7 will start with number 10.

8           So, Mr. Keifer, you'll be the first one to  
9 come. And then we will switch to the yellow after  
10 that.

11           MR. QUAIL: Could you tell us your name  
12 again.

13           MR. BLUHM: Yes. My name is Kevin Bluhm.

14           MR. QUAIL: Thanks.

15           MR. BLUHM: And I work for the Army Corps of  
16 Engineers out of St. Paul.

17           And I probably should spell my name. B-l-u-h-  
18 m. Because it's not as it sounds.

19           Okay. We'll get the microphone adjusted here  
20 and get it turned on. We'll do a little test with  
21 that. And you can use either microphone when you come  
22 to talk to us. Either side is fine. You've got that  
23 working. Okay. That looks like it's about right. So  
24 when you come to the microphone, make sure you're close  
25 enough so that we can hear you. If you can start with

1 your name and give us that zip code, that would be most  
2 helpful.

3 Whenever you're ready, go ahead.

4 MR. KEIFER: Thank you. My name is Dan  
5 Keifer. I'm Community Outreach Coordinator for the  
6 Clinton River Watershed Council in Southeast Michigan.

7 When I'm not at work doing watershed council  
8 work, I'm a member of the Metro Steelheaders Club, and  
9 go angling, trolling, river fishing for salmon,  
10 steelhead and walleye all around Lake Michigan. So my  
11 comments are from both perspectives.

12 The Clinton River Watershed is the most  
13 populous watershed in the State of Michigan. One and a  
14 half million people live there. It connects to Lake  
15 St. Clair, which is the largest freshwater delta in the  
16 world. The State of Michigan with its own Asian carp  
17 control plan has identified the connecting waters of  
18 the St. Clair River, Lake St. Clair, Detroit River as  
19 one of the highest risk waters in the State of Michigan  
20 to establishing and breeding population of Asian carp.  
21 So we are very concerned.

22 I've been with the Watershed Council for nine  
23 years. We talk about a lot of issues with our  
24 constituents and people to get them interested in water  
25 quality. Nothing comes close to the Asian carp issue.

1 Nothing comes close to that in terms of concern of  
2 anglers, boaters, Michiganders. As I'm sure you've  
3 heard all around our state, this is our way of life. It  
4 is of great importance to our economy and to countless  
5 entrepreneurs and workers all around lake ports of Lake  
6 Michigan.

7 I want to thank you for this opportunity. I  
8 want to thank you for, Mr. Goss, being here along with  
9 the Corps of Engineers to show this is a comprehensive  
10 approach. I want to thank you for the Eagle Marsh  
11 barrier fantastic work that was done.

12 But I still do not get the sense of urgency,  
13 the sense that this is a war, as the General has  
14 identified so clearly. A war is not prosecuted by a  
15 science project. A war does not have a timeline. And  
16 so the GLMRIS does not reflect this sense of urgency or  
17 the sense that we are at war.

18 My main concern, I guess because it's what I  
19 do, communications outreach, is the totally  
20 insufficient communications that this effort has. I've  
21 gone to the Website many times. I have done many  
22 presentations on this. I have to piece together  
23 material, information to do these presentations. I  
24 have to go to you. Why don't you come to us? Where is  
25 the -- I appreciate the social network. I'm sure it

1 will get better. But where is the YouTube videos of  
2 this biology here of tagged fish? Put this information  
3 out. You are losing the hearts and minds, General, of  
4 the people you need to maintain the funding it will  
5 take to do this job.

6           You need to come to us. Give us the  
7 information. You've just given us wonderful  
8 information here today that is still not available on  
9 the Website. Bring it to us. Tell this story.  
10 Everybody still thinks this is going to get solved by  
11 closing the locks.

12           Thank you.

13           MR. BLUHM: Thank you, sir.

14           GENERAL PEABODY: I learn something at every  
15 one of these meetings. And the first thing I learned  
16 today is I need to spend more time surfing our own  
17 Website. No, thank you very much, Mr. Keifer, we  
18 really appreciate it.

19           We get it. We understand the sense of  
20 urgency, the passion, the emotion behind it. The most  
21 common words I hear are fear and panic. And those are  
22 emotion-laden words. I think there's great cause for  
23 concern. I absolutely agree with that.

24           We have a sense of urgency and we're  
25 prosecuting what we can with a sense of urgency. But

1 the GLMRIS is the wrong thing to focus on for urgent  
2 action. It's not designed for urgent action. It's  
3 designed for a permanent solution. And in general when  
4 you're trying to do something that's going to be long  
5 lasting and enduring, speed is the enemy of the good.

6 Now, there is a place and there is a  
7 mechanism to execute urgent acts, and that is through  
8 the Asian Carp Regional Coordinating Committee led by  
9 Mr. Goss and Mr. Davis. The specific things that the  
10 Corps brings to that fight in addition to the fish  
11 barrier, which I've already talked about and which we  
12 have very high confidence is effective, is the efficacy  
13 study on the fish barrier. And we are leveraging that  
14 efficacy study to deliver the information that allows  
15 us to incrementally improve the fish barrier and  
16 incrementally advance other efforts in collaboration  
17 with our other federal and state partners and other  
18 DNRs very much decisively engaged on this issue to  
19 ensure that the Asian carp are controlled below the  
20 fish barrier. And that is where we are focused for  
21 urgent action.

22 I would suggest that if -- and I agree with  
23 you we're doing a poor job of getting the information  
24 out if reading the newsprint is any indication of how  
25 well we're doing. There's tons of inaccuracies in

1 almost every single article I read. And I go back to  
2 the fear and panic verbs. They seem to be more  
3 inspired by that.

4 But having said all that, we're going to  
5 rededicate ourselves. If you would like a job as a  
6 Website manager, I think I might have a job for you.

7 But we are going to continue to focus on the  
8 efficacy study and the fish barrier as the area to --  
9 for the urgent action to make sure that they stay at  
10 bay. And that does give us, as Mr. Goss said, the time  
11 that we need to do the GLMRIS study properly. And it is  
12 really critical that we collectively do that study  
13 properly so that whatever we devise is really going to  
14 work and really going to last.

15 John, do you want to make any comments?

16 MR. GOSS: Just very quickly. I think this  
17 network information stuff is critically important.  
18 There's a guy in the back named Jim Breeden. And he  
19 and I are determined to get this information out there.  
20 And if we're not doing a good job, please yell at us  
21 again later.

22 GENERAL PEABODY: And, Kelly, tell me how  
23 much you need for a YouTube video camera, okay? We'll  
24 get it for you.

25 Thank you, sir. Appreciate it.

1 MR. BLUHM: Very good. Thank you.

2 Okay. We will now go to the persons that  
3 have indicated they would like to make a comment with  
4 the yellow sheets. I've got four names so far. We'll  
5 start with number 11 where we left off this afternoon.  
6 That will be Tom Quail. And then following him will be  
7 Dennis -- oh, boy, this is going to be a tough one. You  
8 always get a challenger. I'll try Fijalkowski.

9 So, Mr. Quail, you're up. Take your time.

10 Okay. When you're ready, go ahead.

11 MR. QUAIL: It's Tom Quail -- Q-u-a-i-l --  
12 just like the bird. And I am with Michigan Trout  
13 Unlimited. I'm the Conservation Chair for the state.  
14 I'm also with the Clinton River Watershed Council. I'm  
15 a staff member. I work with Dan. So here's the other  
16 barrel.

17 MR. BLUHM: Can I get a zip code?

18 MR. QUAIL: 48360.

19 MR. BLUHM: Thank you.

20 MR. QUAIL: I know way too much about Asian  
21 carp. I went to the first meeting back in February.  
22 And I went to the meeting in November for the Michigan  
23 seminar and bringing this up. I'm going to this  
24 meeting and all the time in between. And I really want  
25 to study cold water species. I really want to deal

1 with Trout Unlimited stuff, but you're forcing me to  
2 become an expert in carp. Not good.

3 Now, I get all worked up with this. And  
4 between meetings I think, okay, I'm going to tell them  
5 this, I'm going to tell them that. And then you put  
6 this presentation on and, to reiterate what Dan said,  
7 this is wonderful. This is some great information. You  
8 took the wind out of my sails.

9 But I've got to go down fighting here. You've  
10 shown that your work on Eagle Marsh was great. I mean,  
11 you had a problem. You recognized it. You reacted  
12 quickly.

13 You also identified that the Asian carp --  
14 aren't you going to put my time up there?

15 MR. BLUHM: Sorry about that.

16 MR. QUAIL: I was geared to watching this  
17 green and yellow.

18 MR. BLUHM: Okay. That was my fault. I can  
19 speed it up, if you want.

20 MR. QUAIL: There you go. This could be a  
21 long night if I just kept going on and on.

22 You also identified that Asian carp is the  
23 largest -- the concentration of Asian carp in this area  
24 is -- in the Chicagoland area is the largest in the  
25 world. That's pretty disturbing, very disturbing.



1           You've talked about the number of things that  
2   you're investigating, developing pheromones, chemical  
3   suppressions, other eradication methods. You have a  
4   third barrier in place. That's wonderful. You've  
5   checked -- you've got it cranked up as high as you can  
6   go, as high as safely you can go.

7           GENERAL PEABODY: As high as the science  
8   tells us works.

9           MR. QUAIL: Yes, that's what I meant.

10          So you've got all this stuff going on. But  
11   what we have here we have a Great Lakes Basin that's  
12   10,000 years old that can't save itself.

13          And there's two analogies I want to make with  
14   this. Well, let's start with the one analogy. My  
15   career has been spent in the automotive industry. I did  
16   not work for one of the Detroit automotive companies. I  
17   was a supplier and I was a senior program manager. And  
18   in that we -- you know, I worked with design engineers,  
19   I worked with product engineers, manufacturing  
20   engineers. And somewhere back in the mid to late '70s  
21   Asian car companies came over here -- it's significant  
22   it's the same name. Asian car companies came over here,  
23   and they started developing cars in 18 months.

24          And the General Motors of the world and the  
25   Chryslers and the Fords sat down, and they would say --

1 and I was in these meetings, because they would bring  
2 the supplier base in. And they would go through the  
3 same presentation, and it was wonderful. And these are  
4 hardworking product engineers, design engineers,  
5 manufacturing engineers, suppliers. And they're  
6 telling me exactly -- or telling the audience, telling  
7 their superiors, telling their CEOs this is the best  
8 they can do. Well, they lost. And now they produce  
9 cars in 18 months. They got the message after they  
10 went bankrupt.

11 We don't have that choice. Because if we  
12 screw up the Great Lakes, it's gone. We can't bring it  
13 back. We don't have near enough money for that.

14 So while, General, you're doing a knock-out  
15 job here, you have to speed it up. You have to speed  
16 it up. That's your job. There's no other answer.

17 Thank you very much.

18 MR. BLUHM: Thank you.

19 GENERAL PEABODY: You make analogy to car  
20 companies. I make analogy to race horses. And race  
21 horses have top speeds. It's possible we're not at our  
22 top speed, and I think it is possible to go faster. I  
23 think it's always possible to go faster. But we are  
24 encumbered -- encumbered may be the wrong word. We  
25 have legal and policy requirements that we must abide

1 by, and those do require time to work through.

2           We have a lot of experience doing studies in  
3 the Corps. Typically the studies that we do are almost  
4 never optimally funded. In fact, often they're funded  
5 at well below 50 percent of capacity from one year to  
6 the next and often unfunded. And that's one of the  
7 primary reasons our studies tend to take a long period  
8 of time.

9           The other reason studies tend to take a long  
10 period of time is what my censor here Ernie Drott calls  
11 progressive elaboration. And that is you don't know  
12 what -- to quote a famous or infamous former Secretary  
13 of Defense "You don't know what you don't know until  
14 you uncover it." And then you learn as you  
15 progressively go forward in the study.

16           And typically what happens is -- and if  
17 you're from the car industry, I'm sure you understand  
18 this, because I'm sure you've dealt with it. You find  
19 out new capabilities, new technologies, new materials  
20 that you can apply, and it changes where you started  
21 with and you go off on different branches and paths  
22 that you have to pursue. And those tend to add time to  
23 the study.

24           Now, the challenge I think that we have is  
25 culturally what we try to do is get to a near perfect

1 end state for all of our studies. Most of our studies  
2 are much smaller in scope and scale than this one, much  
3 smaller and much less complex, much more simple.

4           We are really working very hard to change  
5 that orientation. So that instead of trying to execute  
6 the perfect or near perfect study and only then make  
7 recommendations to Congress -- and, oh, by the way,  
8 that's what our laws tell us to do. Because Congress  
9 is not in the habit of saying, "Corps, go do a study.  
10 Just incrementally do solutions as you go along,  
11 because we trust you." I mean, Congress says, "Wait a  
12 minute. We're in charge of the taxpayer's dollar here.  
13 And tell us what you found out from your study, then  
14 we'll take a look at it. And we'll tell you what we  
15 think about it, whether we should fund the proposals or  
16 the different alternatives that come out of the study."

17           In the case of this issue, we haven't been  
18 doing that. Because Congress gave us two things that  
19 have been absolutely decisive for our ability to be  
20 responsive to the issues you applauded us for being  
21 responsive with.

22           The first thing is they gave us an authority  
23 called Section 126 in the 2009 Energy and Water  
24 Appropriation Act. And that authority gave the  
25 Secretary of the Army for Civil Works, Ms. Jo-Ellen

1 Darcy, the authority to take emergency action  
2 associated with the Asian carp issue. Study  
3 authorities told us to do it. But it had a sunset  
4 provision. They said it's only going to last a year.  
5 It's been extended in the CR. And I'm not sure if it's  
6 in the current CR or not, but it's kind of irrelevant.

7 But the point is they gave us this authority,  
8 and we acted on it. We built the bypass barrier with  
9 it. We did two other reports that we thought we might  
10 be able to do something that we hadn't been able to do  
11 much with, but we put screens on the sluice gates of  
12 the locks and some other things.

13 The second thing they gave the Nation was the  
14 Great Lakes Restoration Initiative so that we don't  
15 have to go back to Congress to reprogram moneys to take  
16 some of these actions. And John talked about the  
17 bypass barrier that we delivered -- the estimate was 13  
18 million, I think. We delivered it for seven-point-  
19 something million, 7.4, I think, million dollars. And  
20 the only reason we were able to get that amount of  
21 money is because we didn't have to do a massive  
22 reprogramming inside the Corps. We were able to talk  
23 to the EPA, and they said, "Hey, this is an urgent  
24 issue deserving of GRI funds. We're going to front you  
25 the money for that." And as it turns out, we were able

1 to give some of their money back.

2           So I guess to make this long response  
3 concluded is we agree with you. We want to go faster.  
4 But we're cautious, because we also know that speed can  
5 be the enemy of good. And it's really important that  
6 for the GLMRIS, the long-term, permanent solutions, we  
7 get to good.

8           Now, we do intend if -- again, as I said, I  
9 want to emphasize this. If it's possible as we get the  
10 science-based data and information, as we understand  
11 the options and technologies, we intend to cycle out  
12 reports that say, hey, Congress, we think that this is  
13 an option or alternative that you should consider  
14 funding so that we can reduce the risk before we get to  
15 the full prevention goal that we're all after, because  
16 this is going to do this, that and the other to  
17 decrease the risk and incrementally improve our ability  
18 to ensure that whether it's Asian carp or another  
19 invasive species they're not going to move.

20           That's kind of a longwinded answer, but this  
21 is a complicated issue. And I think you all deserve  
22 more than just short pat answers. I think we deserve  
23 to have a conversation with each other. And I'm trying  
24 to help you understand. And I really appreciate you  
25 helping us trying to understand, also.

1           So thank you, sir.

2           Yes, Dave.

3           MR. WETHINGTON: Quick thing. Gentlemen,  
4 both of you, Mr. Keifer and Mr. Quail, mentioned that  
5 this is the first time you've seen this information.  
6 Had both of you gentlemen been to the GLMRIS Website,  
7 the GLMRIS.anl.gov? And you looked through? Because  
8 I'm sorry that it's not more apparent to you. So I  
9 guess I'll get through to our Web designers, because  
10 all this information we presented today, including  
11 those banners that are outside, all that information  
12 there, those are all on our Website. Those are  
13 supposed to be easily accessible and easily visible. So  
14 --

15           MR. KEIFER: That information out there is  
16 not the same as what you all just presented, all right?

17           GENERAL PEABODY: You're talking about the  
18 fish barrier information and stuff?

19           MR. KEIFER: I'm talking about all the  
20 specific --

21           MR. WETHINGTON: All the fish -- okay.

22           MR. KEIFER: I'm not talking about the  
23 boilerplate --

24           GENERAL PEABODY: I've got it. I've got it  
25 loud and clear. We've got to do better in that regard,

1 and we'll do that.

2 MR. KEIFER: Specifics. You guys got  
3 specifics.

4 MR. WETHINGTON: Okay. With regard to Asian  
5 --

6 MR. KEIFER: And push it out to us. Where's  
7 the Listserves?

8 MR. WETHINGTON: Okay.

9 GENERAL PEABODY: Ernie, you got the task?

10 MR. DROTT: Yes, sir.

11 GENERAL PEABODY: Okay. Thank you, sir.

12 MR. WETHINGTON: Thanks for your comments.  
13 Appreciate it.

14 GENERAL PEABODY: Appreciate it.

15 MR. BLUHM: Very good.

16 Okay. Moving on. Number 12 Mr. -- and I'll  
17 have to have you help me spell it. Is it Fijalkowski?

18 MR. FIJALKOWSKI: Fijalkowski.

19 MR. BLUHM: Okay. And then following him  
20 number 13 will be Kurt Wolak.

21 So when you're ready, go ahead, sir.

22 MR. FIJALKOWSKI: Yeah. My name is Dennis  
23 Fijalkowski, and I represent the Michigan Wildlife  
24 Conservancy.

25 And I'm speaking here to reiterate our



1 concern that the federal agencies involved in this  
2 operation do not appear to have sufficient sense of  
3 urgency as been discussed earlier.

4 I think the Eagle Marsh project is great. But  
5 I think the greatest passage I'll take from this  
6 meeting are the words of Dan Keifer that you can't  
7 fight a war on a timetable. And I think you ought to  
8 write that down and take it back to your offices.  
9 Because this is a war, and the people of Michigan know  
10 better than anybody else in the watershed how important  
11 these Great Lakes are. Forty-three million people live  
12 in this watershed.

13 And I do have to ask the question, many of  
14 those people live north of us in the great country  
15 called Canada. Have they been allowed to have any  
16 input into this process? What we do in Chicago affects  
17 the Canadians. Probably a third of that 43 million  
18 live in Canada. I think it's a flaw in your process. I  
19 don't care if you do get your charge from the U.S.  
20 Congress. That doesn't mean that you can't work  
21 through the State Department or some other channel to  
22 get input from Canadian citizens just like you're doing  
23 here.

24 While the Asian carp is knocking on our door  
25 because of our decades of negligence and the

1 preoccupation of the Chicago area people with 7 million  
2 tons of cargo that go through the Chicago Waterway  
3 System, by comparison the Great Lakes fishery is  
4 estimated at \$7 billion and recreational boating on top  
5 of that is said to be \$16 billion. Your 7 million tons  
6 of cargo can't compare. It's not even the same order  
7 of magnitude.

8           As a matter of perspective, many of our Lake  
9 Michigan ports on the west side of Michigan get more  
10 recreational boating traffic than the whole Chicago  
11 Waterway System. And we've got them all up and down a  
12 300-mile coastline. So that's the difference in scale  
13 we're talking here.

14           We think you should be working right now on  
15 structures that will stop the invasion of the Asian  
16 carp. They've been coming to us since 1975. 1975. And  
17 the General said a couple of times that speed is the  
18 enemy of good. Well, I might suggest that doing  
19 nothing is also the enemy of good.

20           Since 1975 when this fish because of floods  
21 in Arkansas entered the Mississippi River, you've known  
22 that they were coming north to the Great Lakes. And  
23 over the intervening 35 years or whatever it is nothing  
24 has been done until two or three years ago. These Great  
25 Lakes are very important to our people here in

1 Michigan.

2           Okay. I had some prepared remarks, which I  
3 could leave, I guess, with the person taking this  
4 stuff.

5           But I would like to also comment that it  
6 appears that the Corps of Engineers has taken the  
7 charge from Congress, which was originally to stop the  
8 Asian carp from entering the Great Lakes, and changed  
9 it to reducing the risk of invasion. And I put that in  
10 quotes "reducing the risk." That's not what they asked  
11 you to do. They asked you to keep the carp from  
12 entering the Great Lakes.

13           And you're saying you need five years to  
14 study it. You don't need five years to study the Asian  
15 carp issue. As the General suggested, you're now doing  
16 research on a whole myriad of species that go either  
17 from Great Lakes to the Mississippi or in the other  
18 direction. That's far more than the Congressional  
19 mandate that was given to this entity. It was to do  
20 something about the Asian carp, not the minnows that  
21 might go from one watershed to the other. You've got  
22 one species you should be looking at.

23           Now, after the last meeting, the Natural  
24 Resource Defense Council and the Alliance of the Great  
25 Lakes did an engineering study and came up with an idea

1 -- actually two physical sites where physical  
2 separations could take place. We think you ought to  
3 stop talking about five years. Take a look at the  
4 information they've already collected. They spent a  
5 couple million dollars on it.

6 GENERAL PEABODY: They're not done yet, sir.

7 MR. FIJALKOWSKI: Oh, they're not done yet.

8 Okay. Let's use what they've already started  
9 on and try to expedite this process. This is a war. We  
10 can't wait for the carp.

11 Thank you.

12 MR. BLUHM: Thank you.

13 GENERAL PEABODY: Okay. Sir, you made  
14 several points. Let make take them one at a time.

15 First of all, with regard to Canada -- well,  
16 let me just say as a caveat to all these comments. As I  
17 indicated up front, the Corps of Engineers must have by  
18 law two things to do anything. The first thing is an  
19 authorization. The second thing is an appropriation,  
20 okay?

21 And there's a whole host of additional laws  
22 that we have to follow that from which our policies are  
23 derived as well. And we have to color inside those  
24 lines. I wear this uniform because I'm good at doing  
25 two things, taking orders and following those orders.

1           And if you all disagree with the laws that we  
2 have to follow, then I would suggest that you have an  
3 opportunity to change those laws through our democratic  
4 process. But whether you like the laws or not, I must  
5 abide by them. That is not a choice, that is not an  
6 option, and I will not go outside those laws, okay?

7           And let me just clarify what some of those  
8 laws say. First of all, there is no jurisdiction for  
9 the Corps of Engineers inside the borders of Canada.  
10 There are several laws that prevent us from actively  
11 working in the fashion that you've suggested with  
12 Canada.

13           Having said that, we are in conversations  
14 with the Canadians. We do keep them informed primarily  
15 through the International Joint Commission, but through  
16 other informal engagements. And they are doing some  
17 study efforts that we are hopeful will help inform our  
18 study. And we fully intend to use anything that they  
19 provide to us that provides the kind of relevant  
20 quality data that we need to prosecute this study.

21           They are interested in it. They're the same  
22 users of the Great Lakes as we are. They're impacted,  
23 as you said, sir, just like us. And if there's  
24 anything that they provide to us that we can use, we  
25 fully intend to do that.

1           Second, you made an analogy between the value  
2 of the fisheries and the Great Lakes and the  
3 recreational industry and the navigation in the Chicago  
4 Area Waterway System. One of the things that we have  
5 to do is study all the benefits and costs and all the  
6 potential impacts.

7           Now, like it or not, the Chicago Area  
8 Waterway System has several authorized uses under the  
9 law. And until those authorized uses are changed by  
10 the law, we must follow those. And they're not  
11 exclusive to navigation, although navigation tends to  
12 be the interest that receives the most attention.

13           Frankly the issue that I'm most concerned  
14 with, and there are several issues that I must also  
15 take account of, is flooding. Because it's very flat  
16 typography in Chicago. I'm sure several of you have  
17 been there. You understand how flat that terrain is.  
18 And when water comes down, it doesn't have a lot of  
19 places to move fast, and it just kind of -- it tends to  
20 spread out. And we very frequently have to open the  
21 lock gates.

22           In fact, the last time we did it was just  
23 July of this past year. We had to open the lock gates  
24 to reverse the flow so that the water instead of  
25 flowing down toward the Illinois River flowed back into

1 Lake Michigan. If we had not done that, there would be  
2 severe property damage and possible loss of life as a  
3 consequence of that.

4 So we will do an analysis, by the way, of the  
5 fishing industries and the impacts on the fisheries,  
6 recreation industry and the navigation industry.

7 And we have not decided not to close the  
8 locks. I want to emphasize that, too. That's very  
9 much on the table. We're waiting for USGS to do a  
10 study of potential impacts of Asian carp on Lake  
11 Michigan so we have some science-based information on  
12 what's likely to happen as well as all the things that  
13 Dave talked about that we have to do.

14 Now, you also talked about doing nothing, and  
15 we've got to stop the Asian carp. Well, we couldn't  
16 agree more that we have to stop the Asian carp. But  
17 let me just kind of enumerate what we have done to  
18 clarify that we're not doing nothing.

19 In 1996 we got the first authority to come up  
20 with some recommendations on how to deal with an  
21 invasive species moving through the Chicago Area  
22 Waterway System. And the invasive species at that time  
23 of concern was not the Asian carp. It was the round  
24 goby. So it wasn't an issue of something moving from  
25 the Mississippi up into Lake Michigan. It was moving

1 the other way. And as it turns out, by the time we  
2 were able to actually execute anything the round goby  
3 had already gotten into the Illinois Waterway System.  
4 John could probably talk in more detail about the  
5 impact that that has had. I presume it's not much,  
6 because the Asian carp has pretty much crowded it out.  
7 Nonetheless that's still an issue of concern.

8           However, we put together a panel of academics  
9 and scientists and asked them, hey, what's out there  
10 that we could execute that would allow the uses of the  
11 waterway to continue as currently under law while  
12 simultaneously attacking this issue of invasive species  
13 round goby. And they came back with this fish barrier  
14 technology, this electrical dispersal barrier system.

15           So it had never been applied, though, on this  
16 scale or precisely in this manner before. It had never  
17 been applied to exactly block a waterway. It had been  
18 applied to stop a fish from taking a certain pathway  
19 mostly in inlets and large industrial pipes and that  
20 sort of thing.

21           So we gave the report to Congress. They  
22 said, "Great. Build a pilot." So we built a pilot.  
23 That pilot went into installation in 2002. That's nine  
24 years ago. And that's what's called the demonstration  
25 barrier, barrier one.



1           Now, barrier one seemed to work. The  
2 telemetry test that Kelly and her folks did told us  
3 that the fish were not moving across the barrier, but  
4 that was a more limited test than the test we're doing  
5 today.

6           But one of the things we found out while we  
7 were designing barrier -- the first version barrier 2A  
8 was that this scientist Dr. Mark Pegg did a study. He  
9 said, "Hey, it might take more than one volt per inch."  
10 Which were the parameters we were operating at the  
11 barrier at the time. "It might take up to four volts  
12 per inch to keep these invasive species from moving  
13 through."

14           We said, oh, my gosh, we've got to redo our  
15 design. So we changed the design, and we gave  
16 ourselves the ability to modulate the parameters of the  
17 barrier system to make it effective against fish.

18           Meanwhile we started a study that says is Dr.  
19 Pegg right. And some of the reports associated with  
20 that study are going to be published this month. But  
21 the bottom line is what we found out was he had it half  
22 right. Almost exactly half right, as it turns out.  
23 It's really a combination of parameters. Two volts per  
24 inch, 6.5 milliseconds, 15 hertz frequency that turns  
25 out to be effective against fish five and a half inches

1 and larger.

2           Since that time we've discovered that very  
3 small fish may not be affected. But, as I indicated  
4 earlier -- or may not be stunned. They are affected.  
5 As I indicated earlier, we're very confident that fish  
6 of that size are not near the fish barrier.

7           What else have we done? Well, Congress told  
8 us in 2007, "Hey, do an efficacy study. Make sure that  
9 the fish barrier is effective." So we've been  
10 prosecuting that study ever since. We've done three  
11 reports on that study so far, one of which has resulted  
12 in the bypass barriers that John talked about.

13           We looked at changing the way we operate the  
14 locks. Intuitively I thought we would be able to do  
15 that. It kind of made sense to me intuitively. But as  
16 it turns out, once we ran it past the fish biologists,  
17 they said, "It's really not going to be effective."

18           And I have to have -- that's one of the  
19 things I have to be able to say this alternative would  
20 be effective for me to be able to recommend it.

21           We built barrier 2B on an expedited basis.  
22 Because when we found out that the -- we applied the  
23 eDNA evidence or the eDNA technology before our  
24 policies would normally tell us to do that. And we did  
25 that on an expedited basis, because we felt we needed

1 more information about where fish might be. And that  
2 gave us indications, first, A, hey, the fish are closer  
3 than what -- or they appear to be closer than what you  
4 thought.

5           And then, B, there may be some fish that are  
6 above the fish barrier. We found that out  
7 incrementally. And John talked about all the actions  
8 we've taken to try to find those fish above the fish  
9 barrier.

10           We turned up the operating parameters on the  
11 barrier within three weeks once we got that  
12 information. We've been operating at those parameters  
13 ever since. And we've improved the design of barrier  
14 2B and executed that with American Reinvestment and --  
15 I can't remember what the acronym stands for. But the  
16 stimulus funding from the administration. Nineteen  
17 million dollars just for that barrier alone.

18           I could go on, but I'll end it there. There's  
19 a whole host of other details that amount to this. But  
20 here's the point. The fish barrier is a physical  
21 barrier to the fish. It's not something you can see,  
22 but it stops the fish from moving, because it generates  
23 electricity in the water that stuns fish five and a  
24 half inches and larger.

25           We are continuing our research to tell us

1 whether or not we need to change the parameters, and  
2 we're continuing simultaneously safety investigations  
3 to ensure that we can meet the Coast Guard requirements  
4 for changing those parameters so that navigation can  
5 traverse safely through that area. Whether we like it  
6 or not, navigation is an authorized use of that  
7 waterway, and we have an obligation whether we like it  
8 or not, a legal obligation, to ensure that the fish  
9 barrier allows safe passage of commercial, recreation  
10 and passenger vessels through that area.

11           Sir, you talked about prevention versus risk  
12 reduction. You have a good point. The legislation  
13 that was passed by the Congress told us prevent. And  
14 if you look up in the dictionary what prevent means,  
15 it's primarily stop. A hundred percent is the  
16 implication. Now, there are other means, but they tend  
17 to be secondary. And those other means do carry the  
18 implication of risk reduction.

19           But here's the truth. We don't know before  
20 we go through the study process for sure whether we can  
21 get to prevent. And so the reality is that many things  
22 that we engineers build in the world, engineer  
23 solutions, turn out not to be as good or operate as  
24 effectively as they're initially advertised. That's  
25 just reality. Because factors that we don't fully

1 understand sometimes get in the way.

2           So if I were to advertise, hey, this  
3 technology is a hundred percent full proof, and it  
4 turns out not to be, well, our experience tells us and  
5 our judgment tells us that that may be the case.

6           So while we fully intend to achieve the goal  
7 of prevention, we think it would be irresponsible of us  
8 not to tell the public and not to tell the Congress  
9 there's a possibility that we may not get to  
10 prevention. But we're going to recommend to you all  
11 the various technologies, we're going to tell you what  
12 the relative order of magnitude of risk reduction is.  
13 And then Congress will make a decision as to whether or  
14 not we should implement those technologies.

15           Sir, we appreciate your passion. I've got to  
16 tell you I grew up in Norwalk, Ohio, not too far from  
17 here. I hope that doesn't make you Michiganders upset.  
18 I'm an old Buckeye fan and a very frustrated Cleveland  
19 Browns fan for my entire lifetime. But I used to go to  
20 Nickel Beach in Huron when I was a kid all the time.  
21 And there were dead alewives and dead other fish  
22 littering those beaches. It was so bad I used to hold  
23 my nose to eat my lunch, because I couldn't hardly stand  
24 the stench.

25           This is more than just professional with me.

1 And professionally every core in my being wants to win  
2 this fight, but I have a personal commitment, too, from  
3 my background.

4 Sir, I hope that answers your concerns and  
5 questions.

6 I take your point, sir, Mr. Keifer, that  
7 we're doing a lousy job of getting this kind of  
8 information on our Websites. We're going to do our  
9 best to fix that. And please give us feedback on how  
10 well we're doing as well.

11 Thanks for the opportunity to clarify those  
12 concerns. We appreciate it.

13 John, anything you want to add?

14 MR. GOSS: I couldn't top that, John.

15 MR. BLUHM: Okay. Very good. Thank you.

16 All right. Moving along, then, we're on  
17 number 13 Mr. Wolak. And then following will be number  
18 14 Charles Tazzia.

19 When you're ready, go ahead.

20 MR. WOLAK: Good afternoon, folks. My name  
21 is Kurt Wolak. And when I'm asked to speak at these  
22 things, this is always my favorite part. I am with the  
23 organization Carp Are Crap.

24 And the reason our organization came together  
25 was to serve as a bridging organization to help educate

1 and inform basically the recreational users of their  
2 responsibility to this problem. Because one problem  
3 that you have not talked about in the potential  
4 pathways -- you've talked about the Chicago River.  
5 You've talked about the other pathways. But human  
6 transmission is a very, very, very strong possibility.  
7 And as more waterways get infected and people are  
8 coming into this water system during the summer and are  
9 not informed on how to disinfect or even inspect their  
10 gear, that's like the Emerald Ash war. We don't know  
11 where this is going to happen.

12 And also we found out that there are many  
13 people in this area who share their love for this water  
14 system but have a lot of other talents.

15 You say that your best case scenario is 2015.  
16 And I understand that that says to me that you're going  
17 to need all the help you can. And while, General, I  
18 understand that you do have legal hurdles to overcome,  
19 you're at a distinct disadvantage to the carp who only  
20 has to obey the laws of nature. And as we can see, he  
21 has no hurdles. No offense to you. But it's  
22 unfortunate, but we have to stop the Asian carp and not  
23 you. Because in the Army Corps of Engineers -- because  
24 I know with you I have five years, and with the carp I  
25 don't know what I have.

1           And so the other thing that I'm finding out  
2 about this process is that you come up with a lot of  
3 good ideas. You bring together minds. And, in fact,  
4 some of the best ideas you have come up with have come  
5 from the Carp's Management Plan that was put out in  
6 2006 and 7. And frankly our organization just started  
7 going through and picking out points that haven't even  
8 been addressed. And what happens is you bring these  
9 people together, and they do come up with fantastic  
10 ideas. But once they separate, there's nobody to  
11 assign real responsibility. There's no integrators.  
12 Who is going to do the actual work on the ground once  
13 this is done?

14           The other thing that I wanted -- I have a  
15 question for the gentleman who deals with the other  
16 pathways. We talked about the Eagle Marsh project and  
17 its effect on the Maumee River. But the other river  
18 that that is connected to, as you said, is the St.  
19 Joseph River, which is a river that I have grown up on.  
20 So that isn't talked about much. St. Joe's River leads  
21 to the Great Lakes Michigan. So that's another  
22 pathway. Is that being protected or even involved in  
23 this?

24           One of the other things is there are people  
25 that can help you. Every time I have gone to my



1 organization to find an electrical engineer, to find a  
2 designer, to find anybody on this project, I have found  
3 people willing to either put energy and time into it.

4 I tell your fish biologist and your folks  
5 here I think you might be barking up the wrong tree as  
6 far as the seismic activity. I'm an audio engineer.  
7 I'm an acoustic designer by trade. You're going after  
8 a large mass. And talking to the people that have done  
9 the herding of the fish, the commercial fishermen, they  
10 use a cavitation, and it creates a lot of energy. And  
11 what it tends to do is scatter the fish more than  
12 anything else, and it drives them into deeper water  
13 areas where it takes more and more energy. You're  
14 talking about fish -- if you're talking about the big  
15 head carp, that's 85 to 95 pounds. And also are  
16 spawning in temperatures that are about 68 to 72  
17 degrees, which is a time where a lot of other people  
18 are in the water.

19 So if you're trying to disrupt a large body  
20 mass, you're also talking about something that is about  
21 as big as a child.

22 You might have better luck dealing with  
23 trying to disrupt the eggs after they've spawned,  
24 because they go to a specific area, hydrologically they  
25 also float in a column, and they must remain viable for

1 -- in that water area for two to three days semi-  
2 buoyant. If you can somehow reduce the viability there  
3 or somehow make them sink.

4 Thank you.

5 MR. BLUHM: Thank you.

6 MR. GOSS: I would like to talk to you  
7 afterwards, please.

8 GENERAL PEABODY: Mike, do you want to talk  
9 about the St. Joe issue?

10 MR. SAFFRAN: My understanding is that there  
11 is actually a small land, a bit of land, between the  
12 St. Joe's that flows to Lake Michigan, the St. Joseph  
13 River that flows into Fort Wayne. I think it may have  
14 been Portage or something at one time, but my  
15 understanding is it doesn't directly connect to Lake  
16 Michigan.

17 MR. WOLAK: Is it flood prone, though? Is it  
18 like being a marsh area? Is it, you know, going to be  
19 connected during the spring seasons?

20 MR. SAFFRAN: I guess the thing I'm going to  
21 have to do there is say I don't know. And that I'll  
22 get with the Michigan DNR folks, and we will get to the  
23 bottom of that.

24 MR. WOLAK: Thank you.

25 GENERAL PEABODY: If I could follow up on

1 that. We had a real good question earlier. A lady  
2 made the point that by focusing on the connection  
3 points that's kind of -- you wait until the Huns are at  
4 the gates, and that's almost too late.

5 The reason we focused on the connection  
6 points was to figure out where they could transit and  
7 then work our way back downstream in both directions to  
8 identify places that we could obstruct or stop various  
9 species from moving.

10 Now, in the case of the Wabash, one of the  
11 reasons that's such a concern is that it's one of the  
12 longest obstructed rivers in the United States. And so  
13 it's possible for Asian carp to get closer to that  
14 transition point at Eagle Marsh than in any of the  
15 other points. And that's why that was highlighted as  
16 such a key issue.

17 But we take your point about St. Joe. We  
18 need to work our way back down through that river with  
19 the local professional experts who understand it,  
20 specifically the Michigan DNR, and see if there's any  
21 possible additional connection points. And we'll do  
22 that. Thanks for pointing that out. Appreciate it.

23 MR. BLUHM: Very good.

24 MR. GOSS: I forgot you mentioned human  
25 transfer. It's a huge concern. It is not addressed in

1 our current action plan. And it's one of the most  
2 difficult to get a handle on.

3 We know that many fish have moved to other  
4 bodies of water historically with help. Bait buckets  
5 would be an equal concern. Not that we have a lot of  
6 bait in our current bait delivery system, but I think  
7 for anyone who's sinked minnows if I was fishing on the  
8 Kankakee, which is infested with carp, and took any  
9 minnows from there a few miles, they could be heading  
10 for Lake Michigan. So --

11 MR. WOLAK: Most commercial operations use  
12 wild netting as well. So you can't ensure.

13 MR. GOSS: So those are big concerns. I  
14 think we've got to work with the state people in every  
15 state to do education projects on these two areas. How  
16 do we make people think. If they had any -- for any  
17 reason if they were taking fish to another area make  
18 sure there are no carp, whatever that might be. They  
19 thought they were stocking their pond or whatever.  
20 Because I think it could happen. So I need your ideas  
21 on that. We need to put together education projects.  
22 Thanks.

23 MR. BLUHM: Okay. Excellent. Thank you.

24 All right. We are on number 14 on the yellow  
25 sheet. Mr. Tazzia when you're ready, come on up. And

1 if you can give us your zip code, we would appreciate  
2 that.

3 MR. TAZZIA: Sure. And the last name is  
4 actually Tazzia -- T-a-z-z-i-a. Zip code 48236.

5 First I just want to say thank you for the  
6 great presentation and information, for the great work  
7 on Eagle Marsh and the third barrier, and for the  
8 opportunity to speak.

9 I will preface this by saying I don't have  
10 near the experience with this issue as everybody else  
11 who's talked and near the information. But I do share  
12 their passion. I'm a lifelong Michigan resident,  
13 lifelong Michigan fisherman. These are treasured. You  
14 know this occurred at least 150 times probably in the  
15 last couple of months. So I can't say anything that  
16 these guys haven't already said.

17 So I came up here with a couple of questions.  
18 One is for you, General. Back in, was it, 2002, 2003  
19 we had that huge regional power loss for several days  
20 that knocked out I don't know how many states. So that  
21 always to me begs the question what are your  
22 contingency for power loss on the electrical barriers?  
23 And what is your confidence in those?

24 And my other question is for Mr. Goss. And  
25 this isn't a question so much related to what the

1 hearing is about as far as preventing the transmission  
2 of the carp into the Great Lakes. It's more a question  
3 of dealing with the problem you already have throughout  
4 the Mississippi River Basin. Just wondering if anyone  
5 in the administration has considered, you know, looking  
6 at approaching that problem from an economic  
7 standpoint. That's an awful lot of fish protein  
8 swimming around in the Mississippi River, an awful lot  
9 of potential fertilizer, an awful lot of potential  
10 fishmeal. And if there's one thing that we do well in  
11 this country, it's exploit species to extinction for  
12 economic purposes. We're pretty good at that here.

13               So I'm just wondering if there's been any  
14 work done to try to get industry involved to exploit  
15 this, because there are -- I know the Mississippi River  
16 is long, but it's pretty narrow, too, relative to  
17 oceans and things like that. So those are my  
18 questions.

19               Thank you.

20               MR. GOSS: I'll take that one first, because  
21 it's kind of a fun one. Yes, the State of Illinois is  
22 focused on creating a marketable product. And they  
23 have identified some communities that historically were  
24 river towns with fish processing from river-caught  
25 fish. And they're helping two and possibly three of

1 those communities develop processing plants this year  
2 that are going to come up with a variety of products,  
3 including fishmeal, fertilizer and food. So they're on  
4 it.

5           They have also some plans to do marketing and  
6 to work on both export and domestic marketing to get  
7 people interested in trying Asian carp. So it is a --  
8 it's a white fish. It's a bony fish. You've got to  
9 steam it or bake it, get the meat off the bone, but  
10 then you can use it for about anything. High protein,  
11 low fat. Doesn't retain the problems like the fatty  
12 fish would with pollution-related contaminants and so  
13 forth. And there is a future for it.

14           So they're looking at getting the market to  
15 step in and hopefully take off. And definitely  
16 eradication through -- or at least suppressing the  
17 population seriously through commercial fishing. And  
18 putting it out there in the market is a good part of  
19 the strategy. They do have funds from Great Lakes  
20 Restoration money, but the State of Illinois is doing  
21 all the work on it. So I think we have some hopes that  
22 it's really going to take off this year.

23           Thanks.

24           GENERAL PEABODY: Thanks. Great question on  
25 the power loss. It's something we're concerned about.

1 We are and we have generator -- backup generators at  
2 the barrier sites to address that issue. But there's a  
3 challenge with getting them automatically to turn on,  
4 because this is not your normal electricity. It's not  
5 AC. It's DC. And it goes through impulses that  
6 rapidly change. So there's rapid energy changes many  
7 times a second. And as you can imagine, that puts a lot  
8 of stress on whatever the power source is. So a  
9 generator is not as reliable as main power. If we were  
10 to lose main power, that's an issue of concern.

11 Now, we're continuing -- our electrical  
12 engineers are working with the contractor Smith-Root to  
13 increase the reliability of generators, but we're not  
14 taking it for granted that we have standard main power  
15 coming through the standard transmission lines. We want  
16 to make sure that we have good backup generators that  
17 are able to transmit for long periods of time. And we  
18 do have plans to do that, and we're testing those plans  
19 to make sure that they're reliable.

20 So thanks for that question.

21 MR. BLUHM: Okay. Very good. Thank you.

22 All right. That concludes the list of people  
23 that had identified when they checked in that they  
24 would like to make a comment or presentation to us.

25 At this time it's 7:30. I would like to ask



1 and see if there are any hands of anybody that has not  
2 had a chance to address the panel. If you now would  
3 like to make a comment, now would be the time to raise  
4 your hand.

5 Okay. Then I'll ask -- yes, come on up.  
6 Because you haven't registered, if I could have you  
7 start with your name and affiliation, that would be  
8 great.

9 MS. MONTGOMERY: It's Lia Montgomery. And  
10 54201.

11 And, sorry, but I couldn't resist the eight-  
12 hour drive. I just get so much energy from people from  
13 Michigan. It's just so wonderful how much you care  
14 about these lakes. And I hope you hear that.

15 And, General, you know -- first of all, we  
16 watched the drive and fumble the other night. So my  
17 God.

18 GENERAL PEABODY: Thanks. I appreciate that.  
19 Rub it in.

20 MS. MONTGOMERY: The Browns they are really -  
21 - but we've got the Packers. So sorry.

22 You know, you're so good at what you do.  
23 You're just -- I can see why you're the General. And  
24 it makes me feel really good that you're on our side.

25 But I was really excited last week that we

1 have a Senator from Michigan and a Congressman who are  
2 not happy with your five-year plan and are trying to do  
3 the legal thing the way you keep saying, you know, you  
4 have to abide by.

5           So we've got Debbie Stabenow who says 18  
6 months. "You guys are going to have to do this in 18  
7 months." We've got Durbin who's on board. We're so  
8 close now to a Congressional backing on this finally  
9 after all this time.

10           My concern is is what I hear from you is  
11 they're probably going to have a hearing on this bill  
12 before they do anything with it, and they're going to  
13 ask you to come and sit in front of them. And are you  
14 going to say it's really a bad idea if we go to 18  
15 months because there's no way we can do this in 18  
16 months and feel good about it or -- you know, are you  
17 going to be able to step up to the plate when they come  
18 to you and say, "Can you do this in 18 months"? Are you  
19 going to be able to say to them, "You know, it might be  
20 really hard, and we might have to, you know, look at  
21 some things differently than we would if we had the  
22 luxury of time"?

23           But I hope at that point you're going to find  
24 that passion, that little boy passion, of Lake Erie and  
25 realize this is a crisis, and we don't have the luxury

1 of time.

2           You know, I had dinner with my ex-husband  
3 last night, and I thought I had the luxury of time when  
4 I married him, and, you know, you just don't know  
5 everything. You don't. And, you know, you can take 20  
6 years to study this, and you still, you know, might  
7 find things out later on.

8           But I guess that's what I want to know. I  
9 want to know that when you go before Congress that  
10 you're not going to let these Michigan people down,  
11 that you're not going to let us down in Wisconsin and  
12 everywhere.

13           You know, I left Monday morning, and the sun  
14 was coming over the lake, and it just takes my breath  
15 away. And I know all these people feel that.

16           So the other concern I have is between the  
17 last time I saw this wonderful group, who is now ready  
18 to go home, was 4,000 pounds of live Asian carp in  
19 Canada, and we're worried about finding it in bait  
20 buckets. How does 4,000 pounds of live Asia carp get  
21 from the United States -- this isn't coming from Mexico  
22 mind you. This is coming from the United States. How  
23 is that -- I know this might not be your jurisdiction.  
24 But how are we allowing live Asian carp to get into a  
25 truck and go all the way to Canada before it's stopped.

1 That's not helping anything.

2           So those are my two things. Please tell me  
3 that you're going to do your best in that hearing and  
4 tell me what we need to do to stop these carp going to  
5 Canada.

6           Thank you.

7           GENERAL PEABODY: I'm going to let the Asian  
8 carp director who directs Asian carp to do what they're  
9 supposed to do to talk about transporting them in  
10 trucks. That's a great concern, as we've talked about.

11           Look, I don't know that I'm going to testify  
12 in Congress or not. I have once already. If they  
13 would like me to testify, I will again. I can tell you  
14 that I'm going to do two things with regard to the  
15 study timeline. The first thing I'm going to do is put  
16 it back under a microscope and try to figure out ways  
17 that we can move faster. I can't make any promises.

18           I think we need to have a clear understanding  
19 of what all the provisions of law are and what all the  
20 policies are and where we may have room for maneuver  
21 and then engage our higher headquarters on that.

22           Because, as I frequently pointed out, we have  
23 our legal requirements and we have timelines that  
24 devolve from those legal requirements, but the carp  
25 don't really have a whole lot of respect for our laws.

1 They follow only one law, and that's the natural law.  
2 And that includes migrating up streams and river and  
3 propagating their species and potentially threatening  
4 the Great Lakes, which we can't let happen.

5           Whether we can -- if I testify, I'm going to  
6 do what I always do, and that's I'm going to give my  
7 best professional advice and articulate my best  
8 understanding of the situation. And that's what my  
9 role is. I'm not a policy maker. And I'm not a  
10 decision maker. I have certain decision authorities,  
11 but it's fairly tightly constrained once -- I mean, I  
12 have lots of decision authority with relation to the  
13 fish barrier actually. I made the decision to turn up  
14 the parameters without consulting anybody. Called my  
15 headquarters and said, "Hey, we're going to turn up the  
16 parameters. You kind of, sort of ought to know this."  
17 And they said, "Okay."

18           But when it comes to advising Congress, I'm  
19 not sure they're going to ask my opinion. I'm not sure  
20 they want my opinion. If I am asked, I will give it  
21 candidly. And we are going to take a look at our study  
22 process and the timeline and see if there's ways we can  
23 focus on producing outcomes that are more in line with  
24 what people would like us to achieve.

25           But I've also got to tell you that I also

1 feel a very strong obligation to ensure that whatever  
2 it is we recommend is actually going to work. And it's  
3 just impossible -- I mean, the whole purpose of a study  
4 is to uncover what you don't know and make a  
5 recommendation about some new thing. Otherwise, you  
6 wouldn't need a study.

7           And so the study process that we have  
8 actually works. It's very effective for deliberate  
9 issues that you have time to deal with. Of course, the  
10 challenge here is we're trying to do the study process  
11 for deliberate issues that's got urgent characteristics  
12 with it.

13           Having said all that, as I articulated  
14 earlier, for all the reasons I cited we're very  
15 confident in the fish barrier. We're very confident in  
16 all the actions that the Asian Carp Regional  
17 Coordinating Committee is taking. We have a certain  
18 tightness in our gut, because there's always something  
19 you don't know, whether it's how your spouse is going  
20 to turn out 20 years from now or whatever it is. And  
21 so it's those unknowns that do concern us. And that's  
22 why we have a pretty intensive effort to try to find  
23 whether there's Asian carp above the fish barrier or  
24 reduce the population below or do all the research that  
25 John talked about.

1           And I'll let John talk about what we're going  
2 to do about human transport and trucks in Canada and  
3 all that stuff.

4           MR. GOSS: It's a shock that they're still  
5 coming with truckloads. The Canadians told us last  
6 fall that they had intercepted several last year.  
7 Fortunately Congress did act. The president signed in  
8 December to add bighead to the Lacey Act. So it wasn't  
9 even really illegal to move them through the states  
10 until December 15th when that was adopted.

11           Fish & Wildlife has a million dollars at  
12 least in their budget for Lacey Act enforcement. They  
13 are taking it very seriously. And they are trying to  
14 determine where there might still be some illegal  
15 activity. The one that was fined \$50,000 for a  
16 truckload was heading for Toronto to the live fish  
17 market. The Canadians are watching very carefully.  
18 Every fish truck is being inspected at the border very  
19 carefully.

20           All we can say, I think, is that it's still  
21 an education project, and we need to figure out if  
22 they're coming from states in the south or wherever.  
23 We've got to work with those states in partnership to  
24 stop it. We've got to get it at the source and we've  
25 got to stop it.

1           So we'll be working with Fish & Wildlife very  
2 hard to make sure -- hopefully that's the last one  
3 we're going to ever see in a truckload.

4           But thank you for coming from Wisconsin  
5 again.

6           MS. MONTGOMERY: My pleasure.

7           GENERAL PEABODY: And, Kevin, I apologize,  
8 and everybody, but I do have to leave to get to the  
9 airport. I would really like to stay and chat  
10 informally. I find some of those discussions some of  
11 the best.

12          Yes, sir?

13          UNIDENTIFIED SPEAKER: I just have one  
14 question.

15          GENERAL PEABODY: Sure.

16          UNIDENTIFIED SPEAKER: Does the young lady  
17 does she feel that you're something like her ex? That  
18 was terrible.

19          MR. WETHINGTON: You can just end on that.

20          GENERAL PEABODY: Yes, I think I will.

21          I want to highlight, though, that both Dave  
22 Wethington and Mike Saffran are real experts on the  
23 study itself.

24          Mr. Ernie Drott -- you want to raise your  
25 hand. Tallest guy in the room at, what, six-eight,



1 Ernie?

2 MR. DROTT: Yes, sir, six-eight.

3 GENERAL PEABODY: Will be able to answer  
4 questions related to the fish barrier.

5 And then Kelly Baerwaldt, our fish biologist,  
6 can talk about some of the things that the Corps is  
7 doing with both eDNA and the validation testing of the  
8 fish barrier.

9 I'm going to turn it back to Kevin. But  
10 while you're talking, Kevin, pay no attention to the  
11 man in uniform, but I have to exit stage left.

12 Appreciate your time and your passion. I  
13 really do. And we appreciate your constructive  
14 criticisms, because they're going to help us get  
15 better.

16 Thank you.

17 MR. QUAIL: We appreciate you.

18 GENERAL PEABODY: Thank you, sir.

19 MR. BLUHM: All right. Thank you, sir.

20 Okay. While the General is exiting, I would  
21 like to ask one last time if anybody would like to make  
22 a comment now that hasn't had a chance to do so yet  
23 this evening? Either signify by raising your hand or  
24 making your way to the microphone.

25 I thought maybe he was going to the

1 microphone. It doesn't look like it.

2           Okay. I'll ask one last time. Anybody that  
3 would like to make a statement that has not had a  
4 chance to do so, this would be your last chance.

5           Okay. Seeing none, then I'll ask if anybody  
6 that has already made a presentation or a comment to us  
7 tonight if you would like to make a follow up or a  
8 secondary comment for that, now would be the time to  
9 make your way to the microphone.

10           MR. WOLAK: One last question?

11           MR. BLUHM: Yes, go ahead.

12           Come on up to the microphone. If you can  
13 start with your name again, we would appreciate it.

14           MR. WOLAK: My name is Kurt Wolak.

15           And my question has to do with ongoing  
16 funding. The sea lamprey costs about 20 to \$30 million  
17 a year to control in the Great Lakes, so we can see  
18 that money needs to be ongoing. What kind of fundings  
19 for us are we pursuing in this regard?

20           Thank you.

21           MR. GOSS: I can say very definitely that  
22 President Obama's 2012 budget proposal includes over  
23 \$30 million for ongoing projects. So that will get us  
24 approximately two thirds of the projects identified in  
25 our strategy. That includes money in the Corps budget

1 for the barriers and for the GLMRIS study to go at the  
2 projected level right now.

3           So I think we have that commitment from the  
4 President, OMB in the presentation, Congress is about  
5 to have at it. If they ever get the 2011 done, then  
6 they start on the 12. In the 11 budget, most of our --  
7 the majority of our funding came from the Great Lakes  
8 Restoration Fund. Projects that were already in  
9 operation in 2010 have been able to continue at their  
10 same level.

11           But about almost a dozen things that we added  
12 to our plans have not started yet, because we're six  
13 months into the year with no funds released. So even  
14 three or four of those things I mentioned on the R and  
15 D side we haven't actually funded those yet.

16           So we need action in Congress on the budget  
17 just to stay on the current plan with those projects.  
18 We have a good proposal, I think, for commitment to put  
19 money not just in the Corps budget, but also in Fish &  
20 Wildlife and in USGS to follow through on these carp  
21 projects.

22           So they're becoming mainstream. They're not  
23 in danger of floating away if Great Lakes Restoration  
24 money disappear.

25           So we still need GLRI money to do things, and

1 that's the flexible money. So please remind your  
2 Congressional people that most of the carp projects  
3 came from GLRI and please keep it going.

4 Thanks.

5 MR. BLUHM: Great. Thank you.

6 Okay. Just a recap of today's events, we've  
7 heard from some 24 people today, six of them tonight, a  
8 little over an hour of testimony this evening and two  
9 hours this afternoon. So we've heard well in excess of  
10 three hours of comments, questions for us.

11 At this time I would like to ask one last  
12 time if anybody would like to address the audience,  
13 come on up to the microphone.

14 If you want to start with your name again,  
15 please.

16 MR. QUAIL: It's Tom Quail -- Q-u-a-i-l.  
17 Michigan Trout Unlimited. 48360.

18 Quick question. When are we going to do this  
19 again? When do we meet next? And in what kind of  
20 forum? Will it be the same type of forum?

21 MR. GOSS: Dave is working on it. He's  
22 thinking about it.

23 MR. WETHINGTON: I've been thinking about it  
24 a lot actually.

25 One of the slides that General Peabody

1 discussed earlier today had kind of a strategy. And he  
2 didn't spend too much time on it, but we've kind of  
3 outlined a concept of an Executive Steering Committee.  
4 Basically the Executive Steering Committee is a  
5 collaboration of federal and state agencies that have  
6 some sort of governmental or regulatory authority, and  
7 are going to get together on a regular basis to look at  
8 how GLMRIS is progressing, specifically this study.

9 Talking about Asian carp or other things is  
10 kind of beyond the scope of what I can talk about  
11 today, because I couldn't tell you when the next time  
12 we're going to get together and talk about the barrier  
13 or Asian carp.

14 But specifically this Interbasin Study we  
15 anticipate having these Steering Committee meetings on  
16 maybe a quarterly or every bi-annual-type basis. And so  
17 we would imagine that maybe not every meeting, but at  
18 least every other meeting would have a public component  
19 to it. We may not do the forum where we come to all 12  
20 locations, but we would have the opportunity where  
21 folks could call in and listen. It would be like  
22 teleconference lines or video teleconferencing. But we  
23 would definitely allow a couple of hours for a similar-  
24 type format. Someone provides an update on what's  
25 going on, and you can listen in, provide comments

1 either via E-mail or speak your mind via phone. Or if  
2 you can attend in person, we may try to move them  
3 around, have one in Chicago, one in Detroit, one in  
4 Buffalo, et cetera.

5 So that's kind of the concept. I would look  
6 for it probably not too soon, but within the next 6 to  
7 12 months I would imagine for sure.

8 MR. QUAIL: Thanks.

9 MR. BLUHM: Excellent. Thank you.

10 Okay. Any -- yes. Go ahead.

11 MR. KEIFER: Dan Keifer, Clinton River  
12 Watershed Council. 48309.

13 Thanks for the opportunity for additional  
14 questions.

15 Too, what would the anticipated response of  
16 the GLMRIS study be to the report of the Great Lakes  
17 Commission on the Chicago Waterways?

18 And, secondly, can you give any comments on  
19 specific actions this year on the 17 other significant  
20 risk other pathways?

21 You did a great job on Eagle Marsh. What's  
22 the next?

23 MR. WETHINGTON: Sure. I'll speak to the  
24 first question about the Great Lakes Commission study,  
25 and then I'll turn it over to Mike with regard to the

1 other pathways.

2           Specifically the Great Lakes Commission study  
3 is looking at how to implement hydrologic separation in  
4 the Chicagoland area. That's a very specific study.  
5 And they're trying to adhere to an expedited timeline  
6 so that it may -- it will affect the type of data they  
7 collect and the type of information they present.

8           However, it will be a technical report that  
9 does look at where would maybe be the optimal points  
10 for hydrologic separation within the Chicagoland area.  
11 And since the Interbasin Study will be looking at  
12 hydrologic separation as a specific alternative that we  
13 do address, the information that is generated by the  
14 Great Lakes Commission study is timed very well such  
15 that it could inform our study and our process of  
16 looking at, okay, so you guys have already spent this  
17 time looking at where and how you might do it. We  
18 might be able to use that in combination with the  
19 information that we've gathered looking at all the  
20 range of economic and environmental and social impact  
21 data to help inform our study. We wouldn't have to  
22 spend the extra time to look at where those points may  
23 be.

24           So we'll -- it has the potential to inform  
25 our study, especially if it meets all the data quality,

1 acceptability-type parameters that any information  
2 would need to meet.

3 MR. SAFFRAN: Regarding the other aquatic  
4 pathways, the other 17 locations, we're going to go  
5 back and fill in all the data gaps that we had from the  
6 preliminary risk characterization. So we're going to  
7 complete the risk characterization at each of those  
8 locations, identify which locations really warrant  
9 consideration of options and technologies to prevent  
10 transfer.

11 There's a number -- well, let me -- a number  
12 of the locations are areas where it probably is not  
13 going to require a whole lot of money or a whole lot of  
14 engineering expertise to effect -- well, a solution  
15 that prevents migration across that pathway. So we're  
16 going to work with the states and the locals and help  
17 them identify what things they can potentially do there  
18 within their own state management plans that will  
19 prevent the migration of species across those  
20 locations.

21 So what you can expect that the Corps will  
22 produce is a draft report before the end of this  
23 calendar year. It may take us a little while to  
24 finalize it, because quite frankly what we'll be doing  
25 is working with the states on actions that can be done



1 that would make the risk go away. And so we should  
2 have a draft report again before the end of this  
3 calendar year.

4 And ultimately if we have any other locations  
5 like Eagle Marsh where it's clear that there's a very  
6 significant issue that warrants federal involvement in  
7 how to mitigate the risk there, then we will go through  
8 the same process that we had gone at Eagle Marsh, which  
9 is, one, look at what can we do interim temporary, and  
10 then, secondly, the Corps will complete the feasibility  
11 study options and technologies at those locations to,  
12 again, effect a long-term solution.

13 MR. BLUHM: Great. Thank you, Mike.

14 All right. I'll look back to the audience.  
15 Anybody that would have an additional comment, question  
16 to address the panel, now would be the time to move to  
17 the microphone.

18 Okay. I think I finally got you all.

19 All right. Looking at the clock, it's 7:53.  
20 I would like to mention that if you have any prepared  
21 statements for us, that you leave them either with  
22 myself at the front or as you exit at the back table.  
23 And thank you all for your statements.

24 If you have anything you would like to write  
25 in, send in or have additional comments to us,

1 remember, March 31st is the golden date. That is the  
2 date things need to be postmarked or E-mailed to us to  
3 be considered as part of this NEPA scoping process.  
4 And, remember, the Website is a very good repository  
5 for any additional information.

6 Last thing. Help us recycle any materials  
7 that you do not need. If there are materials we  
8 provided that you don't need any longer, just leave  
9 them at the table here as you sit or at the  
10 registration table in the hallway, and we'll be glad to  
11 recycle those.

12 And if you find that you would like an  
13 additional packet, packets are available. This is our  
14 last meeting. You can take as many as you would like.  
15 It will just be less for us to recycle.

16 And with that said, 7:54 on a Tuesday evening  
17 here we will adjourn the meeting.

18 Thank you all for your time and patience. And  
19 we look forward to working with you in the future.

20 (Meeting concluded at 7:54 p.m.)

21

22

23

24

25

1 CERTIFICATE OF NOTARY PUBLIC

2 I, Catherine M. Collier, the officer before whom  
3 the foregoing hearing was taken, do hereby certify that  
4 the witness whose testimony appears in the foregoing  
5 pages was recorded by me and thereafter reduced to  
6 typewriting under my direction; that said hearing is a  
7 true record of the proceedings; that I am neither  
8 counsel for, related to, nor employed by and of the  
9 parties to the action in which this hearing was taken;  
10 and, further, that I am not a relative or employee of  
11 an counsel or attorney employed by the parties hereto,  
12 nor financially or otherwise interested in the outcome  
13 of this action.

14

15

16

17

18

19

20

21

-----

22

Catherine M. Collier

23

Notary Public in and for the

24

State Michigan

25 My commission expires: October 29, 2011

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011  
Page 1

|                               |                              |                              |                                |
|-------------------------------|------------------------------|------------------------------|--------------------------------|
| <u>          \$          </u> | <b>20</b> 93:5 96:20 100:16  | <u>          5          </u> | <u>          9          </u>   |
| <b>\$16</b> 68:5              | <b>2002</b> 74:23 87:18      | <b>5</b> 6:18 31:2 32:10     | <b>90</b> 33:20                |
| <b>\$30</b> 12:21 100:16,23   | <b>2003</b> 87:18            | <b>5:30</b> 6:19             | <b>91</b> 2:20                 |
| <b>\$50,000</b> 97:15         | <b>2006</b> 82:6             | <b>5:35</b> 1:15 3:2         | <b>95</b> 20:21 83:15          |
| <b>\$7</b> 68:4               | <b>2007</b> 76:8             | <b>50</b> 61:5               | <u>          A          </u>   |
| <u>          1          </u>  | <b>2009</b> 62:23            | <b>52</b> 2:15               | <b>abide</b> 60:25 71:5 92:4   |
| <b>1</b> 31:2,25 32:1,6       | <b>2010</b> 101:9            | <b>54201</b> 91:10           | <b>ability</b> 20:9 37:9 62:19 |
| <b>1,500</b> 26:7 37:6        | <b>2011</b> 1:9 14:8 28:2    | <b>57</b> 2:16               | 64:17 75:16                    |
| <b>1.7</b> 18:25              | 101:5 109:25                 | <u>          6          </u> | <b>able</b> 17:5,8 18:4 19:17  |
| <b>10</b> 39:18 51:7          | <b>2012</b> 12:21,25 28:3    | <b>6</b> 11:17 32:5 104:6    | 24:15 26:2 29:7 34:8           |
| <b>10,000</b> 23:3 59:12      | 100:22                       | <b>6.5</b> 75:24             | 36:8 38:8 40:18                |
| <b>100</b> 24:7               | <b>2015</b> 81:15            | <b>600</b> 21:4 22:11        | 43:11,23 46:18,25              |
| <b>105</b> 20:24 21:1         | <b>21</b> 38:2               | <b>600,000</b> 21:4          | 48:5 63:10,20,22,25            |
| <b>11</b> 57:5 101:6          | <b>24</b> 102:7              | <b>60-day</b> 38:16          | 74:2 76:14,19,20               |
| <b>12</b> 6:9 66:16 101:6     | <b>25</b> 40:1               | <b>66</b> 2:17               | 90:17 92:17,19 99:3            |
| 103:19 104:7                  | <b>29</b> 109:25             | <b>68</b> 83:16              | 101:9 105:18                   |
| <b>120</b> 37:25              | <b>2A</b> 75:7               | <u>          7          </u> | <b>above-entitled</b> 1:11     |
| <b>126</b> 62:23              | <b>2B</b> 76:21 77:14        | <b>7</b> 31:15 68:1,5 82:6   | <b>absolutely</b> 20:9 54:23   |
| <b>1275</b> 1:14              | <u>          3          </u> | <b>7.4</b> 63:19             | 62:19                          |
| <b>13</b> 14:3 63:17 66:20    | <b>3</b> 31:25 32:4,6        | <b>7:30</b> 17:11,15 90:25   | <b>AC</b> 90:5                 |
| 80:17                         | <b>300-mile</b> 68:12        | <b>7:53</b> 107:19           | <b>academics</b> 45:24 74:8    |
| <b>14</b> 80:18 86:24         | <b>31st</b> 4:22 6:14 48:10  | <b>7:54</b> 108:16,20        | <b>acceptability-type</b>      |
| <b>15</b> 15:6 50:8 75:24     | 108:1                        | <b>70</b> 20:25 21:2,5,6     | 106:1                          |
| <b>150</b> 87:14              | <b>33,000</b> 14:14          | 33:20                        | <b>accessible</b> 65:13        |
| <b>15th</b> 97:10             | <b>35</b> 68:23              | <b>70-plus</b> 21:5          | <b>accompany</b> 5:15          |
| <b>17</b> 41:19 104:19 106:4  | <b>36</b> 38:17              | <b>70s</b> 59:20             | <b>accomplished</b> 13:14      |
| <b>18</b> 59:23 60:9          | <b>36,000</b> 14:18          | <b>72</b> 83:16              | <b>accordance</b> 24:2         |
| 92:5,6,14,15,18               | <b>3rd</b> 47:23             | <u>          8          </u> | 42:12                          |
| <b>180</b> 30:1               | <u>          4          </u> | <b>8</b> 1:9                 | <b>according</b> 19:10         |
| <b>1890s</b> 11:8             | <b>4</b> 32:10               | <b>80</b> 2:18 33:20         | <b>account</b> 72:15           |
| <b>1975</b> 68:16,20          | <b>4,000</b> 93:18,20        | <b>82</b> 20:22              | <b>accounts</b> 49:17          |
| <b>1996</b> 73:19             | <b>43</b> 67:17              | <b>85</b> 83:15              | <b>accusations</b> 17:21       |
| <u>          2          </u>  | <b>48236</b> 87:4            | <b>87</b> 2:19 22:9          | <b>achieve</b> 24:5,15 45:12   |
| <b>2</b> 31:25 32:1,3,6       | <b>48309</b> 104:12          |                              | 79:6 95:24                     |
| <b>2.8</b> 18:19 19:1         | <b>48360</b> 57:18 102:17    |                              | <b>acoustic</b> 83:7           |
|                               |                              |                              | <b>acronym</b> 23:10 77:15     |
|                               |                              |                              | <b>across</b> 36:17 37:10      |
|                               |                              |                              | 38:22 39:21 75:3               |

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011  
Page 2

|   |  |   |  |
|---|--|---|--|
| <p>106:15,19</p> <p><b>act</b> 29:12 40:23 62:24 97:7,8,12</p> <p><b>acted</b> 63:8</p> <p><b>action</b> 13:10,14,20 17:22 40:25 43:7 55:2,21 56:9 63:1 86:1 101:16 109:9,13</p> <p><b>actions</b> 63:16 77:7 96:16 104:19 106:25</p> <p><b>actively</b> 71:10</p> <p><b>activities</b> 15:14</p> <p><b>activity</b> 83:6 97:15</p> <p><b>acts</b> 31:16 55:7</p> <p><b>actual</b> 39:13 42:9,14 82:12</p> <p><b>actually</b> 11:11 15:20 24:22 32:4 33:20 47:23 70:1 74:2 84:11 87:4 95:13 96:2,8 101:15 102:24</p> <p><b>add</b> 4:18 15:8 61:22 80:13 97:8</p> <p><b>added</b> 13:2 49:8 101:11</p> <p><b>adding</b> 15:9</p> <p><b>addition</b> 42:8 49:24 55:10</p> <p><b>additional</b> 4:17 7:5 11:24 49:4,9 70:21 85:21 104:13 107:15,25 108:5,13</p> <p><b>address</b> 90:2 91:2 102:12 105:13 107:16</p> <p><b>addressed</b> 9:23 82:8 85:25</p> <p><b>adhere</b> 105:5</p> | <p><b>adjourn</b> 108:17</p> <p><b>adjourned</b> 7:7</p> <p><b>adjusted</b> 51:19</p> <p><b>administration</b> 9:14 77:16 88:5</p> <p><b>adopted</b> 12:25 97:10</p> <p><b>adult</b> 41:9</p> <p><b>advance</b> 45:1 55:16</p> <p><b>advantage</b> 31:13</p> <p><b>advertise</b> 79:2</p> <p><b>advertised</b> 78:24</p> <p><b>advertisement</b> 21:18</p> <p><b>advice</b> 19:25 20:2 95:7</p> <p><b>advising</b> 95:18</p> <p><b>affect</b> 105:6</p> <p><b>affected</b> 76:3,4</p> <p><b>affecting</b> 34:14</p> <p><b>affects</b> 67:16</p> <p><b>affiliation</b> 50:23 91:7</p> <p><b>Afghanistan</b> 22:12</p> <p><b>afternoon</b> 6:17 50:14 51:3,6 57:5 80:20 102:9</p> <p><b>afterwards</b> 84:7</p> <p><b>against</b> 41:9 44:13,16,17,18 75:17,25</p> <p><b>age</b> 49:16</p> <p><b>agencies</b> 8:21,22 13:5 29:2 30:5 32:25 35:20 37:15 67:1 103:5</p> <p><b>agenda</b> 4:4 6:15</p> <p><b>ago</b> 11:6 68:24 74:24</p> <p><b>agreement</b> 28:24</p> <p><b>agreements</b> 29:1</p> <p><b>ahead</b> 14:5 52:3 57:10</p> | <p>66:21 80:19 100:11 104:10</p> <p><b>air</b> 23:25 24:1 26:23</p> <p><b>airport</b> 98:9</p> <p><b>alewives</b> 79:21</p> <p><b>alleviates</b> 34:12</p> <p><b>Alliance</b> 69:24</p> <p><b>allow</b> 4:15 13:25 46:22 49:25 74:10 103:23</p> <p><b>allowed</b> 44:22 67:15</p> <p><b>allowing</b> 93:24</p> <p><b>allows</b> 31:13 55:14 78:9</p> <p><b>alone</b> 22:18 30:2 77:17</p> <p><b>already</b> 15:7 19:20 20:18 27:3 28:13 29:18 36:15,20 40:13,21 42:15 45:20 47:1 55:11 70:4,8 74:3 87:16 88:3 94:12 100:6 101:8 105:16</p> <p><b>alterations</b> 46:5</p> <p><b>alternative</b> 23:22 43:12 64:13 76:19 105:12</p> <p><b>alternatives</b> 25:11 29:10 44:9 62:16</p> <p><b>am</b> 8:18 57:12 80:22 95:20 109:7,10</p> <p><b>America</b> 19:22</p> <p><b>American</b> 77:14</p> <p><b>amongst</b> 8:21</p> <p><b>amount</b> 37:16 50:8 63:20 77:19</p> <p><b>analogies</b> 59:13</p> <p><b>analogy</b> 59:14 60:19,20 72:1</p> | <p><b>analyses</b> 16:18</p> <p><b>analysis</b> 13:9 73:4</p> <p><b>analyzing</b> 29:9</p> <p><b>anglers</b> 53:2</p> <p><b>angling</b> 52:9</p> <p><b>Ann</b> 1:13 47:22</p> <p><b>announce</b> 7:8</p> <p><b>annual</b> 39:18</p> <p><b>ANS</b> 34:20 38:21</p> <p><b>answer</b> 44:5,20 45:3 50:2 60:16 64:20 99:3</p> <p><b>answerable</b> 50:2</p> <p><b>answers</b> 44:21 64:22 80:4</p> <p><b>anticipate</b> 103:15</p> <p><b>anticipated</b> 104:15</p> <p><b>anybody</b> 4:1 51:6 67:10 83:2 91:1 95:14 99:21 100:2,5 102:12 107:15</p> <p><b>anymore</b> 13:23</p> <p><b>anyone</b> 86:7 88:4</p> <p><b>anything</b> 5:16 18:17 27:13 28:14 40:24 70:18 71:18,24 74:2 80:13 83:12 87:15 89:10 92:12 94:1 107:24</p> <p><b>anywhere</b> 28:14</p> <p><b>apologize</b> 48:7 98:7</p> <p><b>apparent</b> 65:8</p> <p><b>appear</b> 46:19 67:2 77:3</p> <p><b>appeared</b> 38:18</p> <p><b>appears</b> 69:6 109:4</p> <p><b>applauded</b> 62:20</p> <p><b>Applause</b> 48:23</p> |
|---|--|---|--|

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011  
Page 3

|   |  |   |  |
|---|--|---|--|
| <p><b>applied</b> 14:24 42:2<br/>74:15,17,18 76:22</p> <p><b>apply</b> 29:16 61:20</p> <p><b>appreciate</b> 8:6 16:25<br/>30:15 33:8 35:21<br/>36:1 42:5 48:16<br/>53:25 54:18 56:25<br/>64:24 66:13,14<br/>79:15 80:12 85:22<br/>87:1 91:18<br/>99:12,13,17 100:13</p> <p><b>approach</b> 25:16 30:13<br/>53:10</p> <p><b>approaching</b> 32:21<br/>88:6</p> <p><b>appropriate</b> 30:5 46:5</p> <p><b>appropriation</b> 62:24<br/>70:19</p> <p><b>appropriations</b> 5:17<br/>27:24</p> <p><b>approximately</b> 100:24</p> <p><b>April</b> 41:23</p> <p><b>aquatic</b> 23:17 26:3,5<br/>28:15 29:24 30:6<br/>34:19 35:12,16<br/>36:11 37:5 38:7,19<br/>42:3,19,22 43:3<br/>106:3</p> <p><b>Arbor</b> 1:13 47:22</p> <p><b>area</b> 6:10 8:6 10:19,24<br/>11:16 15:10 16:12<br/>18:23 22:10 25:24<br/>26:8 28:12,13<br/>30:11,12,22 31:1<br/>33:13,21 34:1,6,13<br/>35:15 40:15 56:8<br/>58:23,24 68:1 72:4,7<br/>73:21 78:5,10 81:13<br/>83:24 84:1,18 86:17<br/>105:4,10</p> <p><b>areas</b> 15:15,18 83:13<br/>86:15 106:12</p> | <p><b>aren't</b> 58:14</p> <p><b>Arkansas</b> 68:21</p> <p><b>arms</b> 22:18</p> <p><b>Army</b> 1:12 2:7 3:6<br/>7:14 21:18 22:5 23:4<br/>30:19 51:15 62:25<br/>81:23</p> <p><b>article</b> 56:1</p> <p><b>articulate</b> 95:7</p> <p><b>articulated</b> 96:13</p> <p><b>Ash</b> 81:10</p> <p><b>Asia</b> 93:20</p> <p><b>Asian</b> 2:4 7:10 8:12,19<br/>10:5 12:6,7 15:3,11<br/>16:2,11 20:16,17<br/>29:21 31:17<br/>32:17,19 36:23 37:2<br/>39:24 41:9 42:16,18<br/>44:15 52:16,20,25<br/>55:8,19 57:20<br/>58:13,22,23<br/>59:21,22 63:2 64:18<br/>66:4 67:24 68:15<br/>69:8,14,20<br/>73:10,15,16,23 74:6<br/>81:22 85:13 89:7<br/>93:18,24 94:7,8<br/>96:16,23 103:9,13</p> <p><b>Asiancarp.org</b> 48:15</p> <p><b>assessment</b> 40:24</p> <p><b>assessments</b> 15:22</p> <p><b>assign</b> 82:11</p> <p><b>associated</b> 46:23 63:2<br/>75:19</p> <p><b>assurance</b> 11:24</p> <p><b>attacking</b> 74:12</p> <p><b>attend</b> 104:2</p> <p><b>attention</b> 9:25 10:1<br/>23:22 24:5 35:23<br/>72:12 99:10</p> | <p><b>attorney</b> 109:11</p> <p><b>attractant</b> 16:10</p> <p><b>audience</b> 60:6 102:12<br/>107:14</p> <p><b>audio</b> 83:6</p> <p><b>aunts</b> 22:2</p> <p><b>authorities</b> 63:3 95:10</p> <p><b>authority</b> 23:11<br/>27:5,6,20,22 40:21<br/>62:22,24 63:1,7<br/>73:19 95:12 103:6</p> <p><b>authorization</b> 70:19</p> <p><b>authorized</b> 72:8,9<br/>78:6</p> <p><b>automatically</b> 90:3</p> <p><b>automotive</b> 59:15,16</p> <p><b>available</b> 5:23 7:6<br/>23:14 37:13 41:5,24<br/>46:18 54:8 108:13</p> <p><b>aware</b> 29:13</p> <p><b>away</b> 93:15 101:23<br/>107:1</p> <p><b>awful</b> 88:7,8,9</p> <hr/> <p style="text-align: center;"><b>B</b></p> <hr/> <p><b>backflow</b> 34:10 39:13</p> <p><b>background</b> 80:3</p> <p><b>backing</b> 92:8</p> <p><b>backup</b> 90:1,16</p> <p><b>bad</b> 79:22 92:14</p> <p><b>Baerwaldt</b> 18:22<br/>20:6,24 99:5</p> <p><b>bait</b> 86:4,6 93:19</p> <p><b>bake</b> 89:9</p> <p><b>balance</b> 15:2</p> <p><b>bankrupt</b> 60:10</p> <p><b>banners</b> 65:11</p> <p><b>bare</b> 45:22</p> | <p><b>barking</b> 83:5</p> <p><b>barrel</b> 57:16</p> <p><b>barrier</b> 11:23,25 14:2<br/>17:19,24 18:10,17<br/>19:7,12 20:11,18<br/>21:14 31:14 34:21<br/>40:16 44:16 47:10<br/>53:11<br/>55:11,13,15,20 56:8<br/>59:4 63:8,17 65:18<br/>74:13,14,25<br/>75:1,3,7,11,17<br/>76:6,9,21<br/>77:6,9,11,13,17,20,2<br/>1 78:9 87:7 90:2<br/>95:13 96:15,23<br/>99:4,8 103:12</p> <p><b>barriers</b> 9:22 11:22<br/>12:11,12 16:17 18:6<br/>21:10 40:15 76:12<br/>87:22 101:1</p> <p><b>base</b> 12:20,21 60:2</p> <p><b>based</b> 16:5 37:12</p> <p><b>bases</b> 10:3</p> <p><b>basically</b> 10:23 13:15<br/>31:16 32:20 34:18<br/>35:9,16 36:12 37:12<br/>40:9 81:1 103:4</p> <p><b>basin</b> 15:1 23:17 27:7<br/>30:4 31:6,18 36:17<br/>37:7,10,21,22<br/>38:1,2,17,22<br/>39:14,21 59:11 88:4</p> <p><b>basins</b> 26:4,5 35:17</p> <p><b>basis</b> 18:9 43:14<br/>76:21,25 103:7,16</p> <p><b>bay</b> 56:10</p> <p><b>Beach</b> 79:20</p> <p><b>beaches</b> 79:22</p> <p><b>become</b> 9:17 58:2</p> <p><b>becomes</b> 25:12</p> |
|---|--|---|--|

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011

Page 4

|  |   |   |  |
|--|---|---|--|
| <p><b>becoming</b> 101:22</p> <p><b>begin</b> 16:4 50:5,16</p> <p><b>beginning</b> 12:24 49:2</p> <p><b>begs</b> 87:21</p> <p><b>behind</b> 31:15 54:20</p> <p><b>belief</b> 22:17</p> <p><b>believe</b> 33:18 43:21</p> <p><b>benefits</b> 29:9 44:8<br/>72:5</p> <p><b>besides</b> 16:7,14</p> <p><b>best</b> 16:18 37:12,13<br/>43:21 45:12 60:7<br/>80:9 81:15 82:4 94:3<br/>95:7 98:11</p> <p><b>better</b> 47:11 54:1<br/>65:25 67:10 83:22<br/>99:15</p> <p><b>beyond</b> 10:3,6 103:10</p> <p><b>bi-annual-type</b> 103:16</p> <p><b>bidding</b> 22:3</p> <p><b>biggest</b> 10:19</p> <p><b>bighead</b> 14:17 97:8</p> <p><b>bill</b> 92:11</p> <p><b>billion</b> 68:4,5</p> <p><b>biological</b> 24:21,22,23<br/>44:15</p> <p><b>biologically</b> 44:12</p> <p><b>biologist</b> 20:7 83:4<br/>99:5</p> <p><b>biologists</b> 19:3,10,13<br/>76:16</p> <p><b>biology</b> 54:2</p> <p><b>bird</b> 57:12</p> <p><b>bit</b> 3:16 5:21 8:6,11<br/>10:24 11:12 24:20<br/>30:22 40:13 84:11</p> <p><b>block</b> 27:22 32:13<br/>74:17</p> | <p><b>blue</b> 4:7 5:15 51:2,6</p> <p><b>B-l-u-h</b> 51:17</p> <p><b>Bluhm</b> 2:11 3:2,4 8:2<br/>48:21,24 51:13,15<br/>54:13 57:1,17,19<br/>58:15,18 60:18<br/>66:15,19 70:12<br/>80:15 84:5 85:23<br/>86:23 90:21 99:19<br/>100:11 102:5 104:9<br/>107:13</p> <p><b>board</b> 92:7</p> <p><b>boat</b> 33:16</p> <p><b>boaters</b> 53:2</p> <p><b>boating</b> 68:4,10</p> <p><b>bodies</b> 86:4</p> <p><b>body</b> 83:19</p> <p><b>boilerplate</b> 65:23</p> <p><b>bone</b> 89:9</p> <p><b>bony</b> 89:8</p> <p><b>booklet</b> 4:7</p> <p><b>border</b> 97:18</p> <p><b>borders</b> 71:9</p> <p><b>born</b> 19:14</p> <p><b>bottom</b> 75:21 84:23</p> <p><b>boundary</b> 26:1,7</p> <p><b>box</b> 50:6</p> <p><b>boy</b> 57:7 92:24</p> <p><b>brainstormed</b> 40:10</p> <p><b>branches</b> 61:21</p> <p><b>break</b> 6:20,23 7:4</p> <p><b>breath</b> 93:14</p> <p><b>Breeden</b> 56:18</p> <p><b>breeding</b> 19:11 52:20</p> <p><b>bridging</b> 80:25</p> <p><b>brief</b> 49:22</p> <p><b>briefing</b> 43:12</p> | <p><b>briefly</b> 18:14</p> <p><b>bring</b> 16:11 54:9<br/>60:1,12 82:3,8</p> <p><b>bringing</b> 57:23</p> <p><b>brings</b> 55:10</p> <p><b>broad</b> 37:24</p> <p><b>brothers</b> 22:2</p> <p><b>brought</b> 14:15 50:19</p> <p><b>brown</b> 25:22</p> <p><b>Browns</b> 79:19 91:20</p> <p><b>buckets</b> 86:4 93:20</p> <p><b>Buckeye</b> 79:18</p> <p><b>budget</b> 12:20 14:5<br/>28:3 97:12<br/>100:22,25<br/>101:6,16,19</p> <p><b>budgets</b> 12:20,21</p> <p><b>Buffalo</b> 104:4</p> <p><b>build</b> 22:15 40:18<br/>74:22 78:22</p> <p><b>building</b> 22:13,23,24</p> <p><b>builds</b> 24:10</p> <p><b>built</b> 63:8 74:22 76:21</p> <p><b>bunch</b> 47:17</p> <p><b>buoyant</b> 84:2</p> <p><b>business</b> 23:8 45:5,7,8<br/>49:13</p> <p><b>businesses</b> 34:15</p> <p><b>buying</b> 16:17</p> <p><b>bypass</b> 40:14 63:8,17<br/>76:12</p> <hr/> <p><b>C</b></p> <hr/> <p><b>calendar</b> 41:25 106:23<br/>107:3</p> <p><b>Calumet</b> 11:2</p> <p><b>camera</b> 56:23</p> | <p><b>Cameron</b> 12:16</p> <p><b>Canada</b> 27:5 67:15,18<br/>70:15 71:9,12<br/>93:19,25 94:5 97:2</p> <p><b>Canadian</b> 15:24 67:22</p> <p><b>Canadians</b> 27:8 67:17<br/>71:14 97:5,17</p> <p><b>canal</b> 13:24 14:1<br/>20:21 31:10<br/>36:16,22</p> <p><b>candidly</b> 95:21</p> <p><b>capabilities</b> 25:4<br/>61:19</p> <p><b>capability</b> 28:2,3<br/>47:10</p> <p><b>capacity</b> 22:16,24 61:5</p> <p><b>captured</b> 15:19</p> <p><b>car</b> 59:21,22 60:19<br/>61:17</p> <p><b>card</b> 47:12 49:13,21<br/>51:6</p> <p><b>care</b> 67:19 91:13</p> <p><b>career</b> 59:15</p> <p><b>carefully</b> 16:18<br/>97:17,19</p> <p><b>cargo</b> 68:2,6</p> <p><b>carp</b> 2:4 7:10 8:12,19<br/>10:5 12:3,6,7<br/>13:16,25 14:17,22<br/>15:3,11 16:3,11<br/>20:16,17 29:21<br/>31:17 32:17,19<br/>36:23 37:2 39:24,25<br/>41:10 42:16,18<br/>44:15 52:16,20,25<br/>55:8,19 57:21<br/>58:2,13,22,23 63:2<br/>64:18 67:24 68:16<br/>69:8,11,15,20 70:10<br/>73:10,15,16,23 74:6<br/>80:23 81:19,22,24<br/>83:15 85:13 86:8,18</p> |
|--|---|---|--|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011

Page 5

|   |   |  |   |
|---|---|--|---|
| <p>88:2 89:7<br/>93:18,20,24<br/>94:4,8,24 96:16,23<br/>101:20 102:2<br/>103:9,13</p> <p><b>carp-controlled</b> 12:18</p> <p><b>Carp's</b> 82:5</p> <p><b>carry</b> 12:23 78:17</p> <p><b>cars</b> 59:23 60:9</p> <p><b>case</b> 17:23 29:16 43:21<br/>47:12 62:17 79:5<br/>81:15 85:10</p> <p><b>cases</b> 26:14</p> <p><b>Catherine</b> 109:2,22</p> <p><b>cause</b> 54:22</p> <p><b>cautious</b> 64:4</p> <p><b>caveat</b> 70:16</p> <p><b>cavitation</b> 83:10</p> <p><b>CAWS</b> 2:9</p> <p><b>cell</b> 3:14</p> <p><b>censor</b> 61:10</p> <p><b>center</b> 4:14 18:15</p> <p><b>Centers</b> 38:6</p> <p><b>central</b> 39:8</p> <p><b>CEOs</b> 60:7</p> <p><b>CEQ</b> 29:14</p> <p><b>certain</b> 45:9,15 74:18<br/>95:10 96:17</p> <p><b>certainly</b> 8:24 10:8<br/>27:8 46:14</p> <p><b>CERTIFICATE</b><br/>109:1</p> <p><b>certify</b> 109:3</p> <p><b>certitude</b> 46:25</p> <p><b>cetera</b> 104:4</p> <p><b>chair</b> 9:20 12:15 57:13</p> <p><b>challenge</b> 14:25 61:24</p> | <p>90:3 96:10</p> <p><b>challenged</b> 37:3</p> <p><b>challenger</b> 57:8</p> <p><b>challenging</b> 28:21</p> <p><b>chance</b> 5:21 6:20 8:7<br/>10:9 91:2 99:22<br/>100:4</p> <p><b>change</b> 11:9,10 50:7<br/>62:4 71:3 78:1 90:6</p> <p><b>changed</b> 69:8 72:9<br/>75:15</p> <p><b>changes</b> 61:20 90:6</p> <p><b>changing</b> 76:13 78:4</p> <p><b>channel</b> 31:9 67:21</p> <p><b>characteristics</b> 96:11</p> <p><b>characterization</b><br/>36:11,13 37:8,16<br/>41:21 42:1 43:2<br/>106:6,7</p> <p><b>characterize</b> 30:8 38:8</p> <p><b>charge</b> 29:9 48:2<br/>62:12 67:19 69:7</p> <p><b>Charles</b> 2:19 80:18</p> <p><b>chart</b> 28:19</p> <p><b>chat</b> 98:9</p> <p><b>check</b> 9:10 12:10<br/>27:22</p> <p><b>checked</b> 59:5 90:23</p> <p><b>chemical</b> 59:2</p> <p><b>Chicago</b> 8:22<br/>10:3,20,23 11:4,7,13<br/>13:5 25:24 28:12<br/>30:11,19,22 31:1,10<br/>32:4,16 33:13,21,25<br/>34:6 36:16,22 40:15<br/>67:16 68:1,2,10<br/>72:3,7,16 73:21 81:4<br/>104:3,17</p> <p><b>Chicagoland</b> 33:24<br/>34:8,13 35:14 58:24</p> | <p>105:4,10</p> <p><b>child</b> 83:21</p> <p><b>choice</b> 60:11 71:5</p> <p><b>Chryslers</b> 59:25</p> <p><b>circle</b> 32:5</p> <p><b>circles</b> 32:2</p> <p><b>circumstance</b> 39:3<br/>40:11</p> <p><b>circumstances</b> 40:3</p> <p><b>cited</b> 96:14</p> <p><b>citizens</b> 67:22</p> <p><b>city</b> 33:24</p> <p><b>Civil</b> 62:25</p> <p><b>civilians</b> 22:4,6 23:4</p> <p><b>Clair</b> 52:15,18</p> <p><b>clarify</b> 71:7 73:18<br/>80:11</p> <p><b>clarity</b> 46:15</p> <p><b>classical</b> 22:21</p> <p><b>clear</b> 3:12 25:4,12<br/>65:25 94:18 107:5</p> <p><b>clearly</b> 53:14</p> <p><b>Cleveland</b> 79:18</p> <p><b>Clinton</b> 52:6,12 57:14<br/>104:11</p> <p><b>clock</b> 107:19</p> <p><b>close</b> 6:14 13:18 28:2<br/>32:8 35:19 40:20<br/>51:24 52:25 53:1<br/>73:7 92:8</p> <p><b>closer</b> 20:17 77:2,3<br/>85:13</p> <p><b>closest</b> 19:11</p> <p><b>closing</b> 32:16 54:11</p> <p><b>Club</b> 52:8</p> <p><b>Coast</b> 18:3,8 19:20,22<br/>20:3 78:3</p> | <p><b>coastline</b> 68:12</p> <p><b>code</b> 50:24 52:1 57:17<br/>87:1,4</p> <p><b>cold</b> 57:25</p> <p><b>collaborate</b> 28:24</p> <p><b>collaboration</b> 55:16<br/>103:5</p> <p><b>collaborative</b> 8:20</p> <p><b>collect</b> 29:8 105:7</p> <p><b>collected</b> 70:4</p> <p><b>collecting</b> 33:11</p> <p><b>collection</b> 12:6</p> <p><b>collectively</b> 56:12</p> <p><b>Collier</b> 109:2,22</p> <p><b>color</b> 50:7 70:23</p> <p><b>column</b> 83:25</p> <p><b>combat</b> 21:21</p> <p><b>combination</b> 75:23<br/>105:18</p> <p><b>comes</b> 12:5,18 52:25<br/>53:1 72:18 95:18</p> <p><b>coming</b> 8:6 11:4,19<br/>16:25 30:17<br/>68:16,22 81:8 90:15<br/>93:14,21,22 97:5,22<br/>98:4</p> <p><b>Commander</b> 2:6<br/>7:13,22</p> <p><b>comment</b> 4:13,18,22<br/>5:10 6:18,25 7:1<br/>17:10 48:10<br/>49:20,25 50:1 57:3<br/>69:5 90:24 91:3<br/>99:22 100:6,8<br/>107:15</p> <p><b>comments</b> 4:14,16<br/>5:22 6:6,13,22<br/>7:5,25 17:4 47:3<br/>48:9,20 50:19 52:11<br/>56:15 66:12 70:16</p> |
|---|---|--|---|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011



Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011

Page 6

|  |   |  |  |
|--|---|--|--|
| <p>102:10 103:25<br/>104:18 107:25<br/><b>commercial</b> 14:16<br/>33:15 78:9 83:9<br/>86:11 89:17<br/><b>commission</b> 27:10<br/>71:15 104:17,24<br/>105:2,14 109:25<br/><b>commitment</b> 80:2<br/>101:3,18<br/><b>committed</b> 10:10<br/><b>Committee</b> 12:15 55:8<br/>96:17 103:3,4,15<br/><b>common</b> 54:21<br/><b>communications</b><br/>53:19,20<br/><b>communities</b> 88:23<br/>89:1<br/><b>Community</b> 52:5<br/><b>companies</b><br/>59:16,21,22 60:20<br/><b>company</b> 47:8<br/><b>compare</b> 68:6<br/><b>comparison</b> 68:3<br/><b>Compile</b> 37:12<br/><b>complete</b> 36:12 106:7<br/>107:10<br/><b>completed</b> 17:24 18:4<br/><b>completely</b> 15:3 32:10<br/><b>completing</b> 41:21<br/><b>complex</b> 26:10 28:20<br/>44:10 62:3<br/><b>complicated</b> 28:21<br/>44:6 64:21<br/><b>comply</b> 28:9 40:22<br/><b>component</b> 103:18<br/><b>comprehensive</b> 53:9<br/><b>comprised</b> 33:21</p> | <p><b>concentrated</b> 12:8<br/><b>concentration</b> 12:8<br/>58:23<br/><b>concept</b> 103:3 104:5<br/><b>concern</b> 10:19 19:18<br/>28:1 30:7 34:2<br/>42:17,22,24 53:1,18<br/>54:23 67:1 73:23<br/>74:7 85:11,25 86:5<br/>90:10 92:10 93:16<br/>94:10 96:21<br/><b>concerned</b> 10:15 27:9<br/>37:19 52:21 72:13<br/>89:25<br/><b>concerns</b> 17:7,21<br/>80:4,12 86:13<br/><b>concise</b> 17:3<br/><b>conclude</b> 46:2<br/><b>concluded</b> 64:3<br/>108:20<br/><b>concludes</b> 49:1 90:22<br/><b>conclusion</b> 16:16<br/>50:11<br/><b>concurrently</b> 33:11<br/><b>condensed</b> 49:13<br/><b>conditions</b> 33:12 38:9<br/><b>conduct</b> 48:5<br/><b>conducted</b> 20:11<br/><b>confidence</b> 21:9,14<br/>43:9 55:12 87:23<br/><b>confident</b> 16:16 76:5<br/>96:15<br/><b>conflict</b> 22:18<br/><b>congregate</b> 19:14<br/><b>Congress</b> 27:6 28:4<br/>29:13 45:6<br/>62:7,8,11,18 63:15<br/>64:12 67:20 69:7<br/>74:21 76:7 78:13<br/>79:8,13 93:9 94:12</p> | <p>95:18 97:7 101:4,16<br/><b>Congressional</b> 17:13<br/>69:18 92:8 102:2<br/><b>Congressman</b> 92:1<br/><b>conjunction</b> 39:23<br/><b>connect</b> 84:15<br/><b>connected</b> 11:5 82:18<br/>84:19<br/><b>connecting</b> 52:17<br/><b>connection</b> 26:3 28:16<br/>85:2,5,21<br/><b>connects</b> 52:14<br/><b>consequence</b> 73:3<br/><b>consequences</b> 18:8<br/><b>Conservancy</b> 66:24<br/><b>Conservation</b> 40:6<br/>57:13<br/><b>consider</b> 40:25 64:13<br/><b>consideration</b> 106:9<br/><b>considered</b> 31:25<br/>39:22 88:5 108:3<br/><b>constantly</b> 14:14<br/><b>constituents</b> 52:24<br/><b>constrained</b> 95:11<br/><b>constructed</b> 14:4<br/>31:14<br/><b>construction</b> 22:15<br/><b>constructive</b> 99:13<br/><b>consult</b> 26:16 37:13<br/><b>consulting</b> 95:14<br/><b>consuming</b> 10:13<br/><b>contaminants</b> 89:12<br/><b>contaminated</b> 11:9<br/><b>contingency</b> 87:22<br/><b>continue</b> 14:8 48:12<br/>56:7 74:11 101:9<br/><b>continuing</b> 14:9 77:25</p> | <p>78:2 90:11<br/><b>continuously</b> 26:3<br/><b>contractor</b> 90:12<br/><b>contractors</b> 22:5<br/><b>control</b> 14:22 31:16<br/>34:20 52:17 100:17<br/><b>controlled</b> 31:22<br/>32:1,5,7 55:19<br/><b>controlling</b> 31:17<br/><b>controls</b> 24:21,23 30:9<br/>35:14 44:15<br/><b>conversation</b> 64:23<br/><b>conversations</b> 71:13<br/><b>coordinated</b> 10:2<br/><b>coordinating</b> 8:18<br/>12:15 13:1 55:8<br/>96:17<br/><b>coordination</b> 35:19<br/><b>Coordinator</b> 52:5<br/><b>core</b> 80:1<br/><b>Corps</b> 1:12 2:8 3:6<br/>5:20 6:9 7:14 12:21<br/>13:12,24 14:6 20:8<br/>21:18 22:6,12 23:4<br/>24:13,18 27:4,20<br/>28:20 30:19<br/>32:21,24 37:14<br/>38:10,12 40:17 45:5<br/>49:6 51:15 53:9<br/>55:10 61:3 62:9<br/>63:22 69:6 70:17<br/>71:9 81:23 99:6<br/>100:25 101:19<br/>106:21 107:10<br/><b>correct</b> 5:17<br/><b>cost</b> 47:10<br/><b>costs</b> 29:9 44:8 72:5<br/>100:16<br/><b>council</b> 2:5 7:11 9:16<br/>52:6,7,22 57:14</p> |
|--|---|--|--|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011  
Page 7

|  |  |   |   |
|--|--|---|---|
| <p>69:24 104:12<br/> <b>counsel</b> 109:8,11<br/> <b>countless</b> 53:4<br/> <b>country</b> 27:21 67:14 88:11<br/> <b>county</b> 40:8<br/> <b>couple</b> 12:14 17:18 23:12,20 30:20 34:4 68:17 70:5 87:15,17 103:23<br/> <b>course</b> 9:9 43:7 47:22,24 96:9<br/> <b>cover</b> 4:25<br/> <b>covering</b> 10:3<br/> <b>CR</b> 63:5,6<br/> <b>cranked</b> 59:5<br/> <b>crannies</b> 19:16<br/> <b>Crap</b> 80:23<br/> <b>creates</b> 83:10<br/> <b>creating</b> 88:22<br/> <b>Crest</b> 1:13<br/> <b>crisis</b> 92:25<br/> <b>critical</b> 56:12<br/> <b>critically</b> 56:17<br/> <b>criticisms</b> 99:14<br/> <b>crowded</b> 74:6<br/> <b>cultural</b> 46:9<br/> <b>culturally</b> 61:25<br/> <b>current</b> 31:14 34:20 63:6 86:1,6 101:17<br/> <b>currently</b> 22:8 74:11<br/> <b>cycle</b> 25:13 46:21 64:11</p> <hr/> <p style="text-align: center;">D</p> <hr/> <p><b>dads</b> 22:2<br/> <b>Dam</b> 12:5 32:6</p> | <p><b>damage</b> 73:2<br/> <b>Dan</b> 2:15 52:4 57:15 58:6 67:6 104:11<br/> <b>danger</b> 101:23<br/> <b>dangerous</b> 20:5<br/> <b>Darcy</b> 63:1<br/> <b>dashed</b> 25:19<br/> <b>data</b> 18:18 29:7,8 43:24 45:22 47:5 64:10 71:20 105:6,21,25 106:5<br/> <b>date</b> 4:22 108:1,2<br/> <b>daughters</b> 22:1<br/> <b>Dave</b> 2:9 7:15 30:10,14,18 35:25 36:20 46:13 65:2 73:13 98:21 102:21<br/> <b>Davis</b> 12:16 55:9<br/> <b>day</b> 3:3<br/> <b>days</b> 84:1 87:19<br/> <b>DC</b> 90:5<br/> <b>dead</b> 79:21<br/> <b>deal</b> 18:8 34:7 57:25 73:20 96:9<br/> <b>dealing</b> 10:7 24:1 30:9 83:22 88:3<br/> <b>deals</b> 82:15<br/> <b>dealt</b> 61:18<br/> <b>Debbie</b> 92:5<br/> <b>decades</b> 67:25<br/> <b>December</b> 97:8,10<br/> <b>decided</b> 9:16 73:7<br/> <b>decision</b> 79:13 95:10,12,13<br/> <b>decisive</b> 62:19<br/> <b>decisively</b> 55:18<br/> <b>decrease</b> 64:17</p> | <p><b>deeper</b> 83:12<br/> <b>Defense</b> 22:6 61:13 69:24<br/> <b>definitely</b> 29:6 89:15 100:21 103:23<br/> <b>degrees</b> 83:17<br/> <b>delay</b> 48:7<br/> <b>deliberate</b> 96:8,11<br/> <b>deliver</b> 18:2 55:14<br/> <b>delivered</b> 63:17,18<br/> <b>delivery</b> 86:6<br/> <b>delta</b> 52:15<br/> <b>democratic</b> 71:3<br/> <b>demonstration</b> 74:24<br/> <b>Dennis</b> 2:17 57:7 66:22<br/> <b>Department</b> 22:5,6 67:21<br/> <b>dependent</b> 12:24<br/> <b>depending</b> 11:17<br/> <b>depends</b> 43:14<br/> <b>deploy</b> 23:5<br/> <b>deployed</b> 22:12<br/> <b>depth</b> 39:20<br/> <b>derived</b> 70:23<br/> <b>Derosier</b> 7:22 8:1<br/> <b>Des</b> 11:4 13:22 14:1<br/> <b>describe</b> 35:15<br/> <b>described</b> 40:13 43:5<br/> <b>deserve</b> 64:21,22<br/> <b>deserving</b> 63:24<br/> <b>design</b> 41:8,11 59:18 60:4 75:15 77:13<br/> <b>designated</b> 13:3<br/> <b>designed</b> 4:8,15,25 5:25 6:20 41:9 55:2,3</p> | <p><b>designer</b> 83:2,7<br/> <b>designers</b> 65:9<br/> <b>designing</b> 75:7<br/> <b>desk</b> 4:1 5:12<br/> <b>detail</b> 30:23 74:4<br/> <b>details</b> 13:11 77:19<br/> <b>detected</b> 21:6<br/> <b>determinative</b> 20:9<br/> <b>determine</b> 9:7 16:1 30:5 97:14<br/> <b>determined</b> 13:9 16:22 38:21 56:19<br/> <b>Detroit</b> 7:21,22 52:18 59:16 104:3<br/> <b>develop</b> 16:5 23:15 37:19 42:25 89:1<br/> <b>developing</b> 59:2,23<br/> <b>development</b> 13:8 14:20 15:5 18:15<br/> <b>device</b> 3:15<br/> <b>devise</b> 56:13<br/> <b>devolve</b> 94:24<br/> <b>dialogue</b> 4:16 17:1,17<br/> <b>dictionary</b> 78:14<br/> <b>die</b> 19:24<br/> <b>difference</b> 26:12 68:12<br/> <b>different</b> 5:25 11:20 14:10 44:13 61:21 62:16<br/> <b>differently</b> 92:21<br/> <b>difficult</b> 26:13 28:21 50:21 86:2<br/> <b>digital</b> 26:14<br/> <b>dinner</b> 93:2<br/> <b>direction</b> 9:8 33:6,7 69:18 109:6<br/> <b>directions</b> 85:7</p> |
|--|--|---|---|

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011  
Page 8

|   |   |   |   |
|---|---|---|---|
| <p><b>directly</b> 84:15</p> <p><b>director</b> 2:4 7:10 94:8</p> <p><b>directs</b> 94:8</p> <p><b>disadvantage</b> 81:19</p> <p><b>disagree</b> 71:1</p> <p><b>disappear</b> 101:24</p> <p><b>discharge</b> 33:17,22,23</p> <p><b>disciplinary</b> 32:24</p> <p><b>discovered</b> 76:2</p> <p><b>discussed</b> 27:9 40:22<br/>67:3 103:1</p> <p><b>discussion</b> 10:21</p> <p><b>discussions</b> 98:10</p> <p><b>disinfect</b> 81:9</p> <p><b>dispassionately</b> 25:10</p> <p><b>dispersal</b> 74:14</p> <p><b>disposal</b> 11:16</p> <p><b>disrupt</b> 15:13<br/>83:19,23</p> <p><b>distinct</b> 81:19</p> <p><b>distribute</b> 49:7</p> <p><b>District</b> 3:6 7:21,22</p> <p><b>districts</b> 38:12</p> <p><b>disturbing</b> 58:25</p> <p><b>Ditch</b> 39:15</p> <p><b>divide</b> 23:17 27:7<br/>36:18 37:7,10<br/>38:17,22,24 39:21</p> <p><b>Division</b> 2:7 7:13<br/>22:10</p> <p><b>DNR</b> 40:6 41:1 84:22<br/>85:20</p> <p><b>DNRs</b> 38:5 55:18</p> <p><b>Doctrine</b> 22:19</p> <p><b>document</b> 6:24 33:7</p> <p><b>documents</b> 49:8</p> | <p><b>dollar</b> 62:12</p> <p><b>dollars</b> 63:19 70:5<br/>77:17 97:11</p> <p><b>domestic</b> 89:6</p> <p><b>done</b> 13:14 14:4 16:22<br/>18:12,13,14 28:11<br/>36:10 42:7 53:11,21<br/>68:24 70:6,7 73:1,17<br/>76:7,10 82:13 83:8<br/>88:14 101:5 106:25</p> <p><b>door</b> 67:24</p> <p><b>doorway</b> 5:12</p> <p><b>downstream</b> 85:7</p> <p><b>downtown</b> 10:24<br/>34:12</p> <p><b>dozen</b> 30:3 101:11</p> <p><b>Dr</b> 75:8,18</p> <p><b>draft</b> 41:22 42:21<br/>106:22 107:2</p> <p><b>drainage</b> 11:10,15<br/>15:1</p> <p><b>draining</b> 11:7</p> <p><b>drains</b> 39:6,8</p> <p><b>Dresden</b> 12:5</p> <p><b>drive</b> 91:12,16</p> <p><b>drives</b> 83:12</p> <p><b>drop</b> 4:20</p> <p><b>Drott</b> 61:10 66:10<br/>98:24 99:2</p> <p><b>due</b> 4:22</p> <p><b>Durbin</b> 92:7</p> <p><b>during</b> 3:22 6:23 81:8<br/>84:19</p> <hr/> <p style="text-align: center;">E</p> <hr/> <p><b>Eagle</b> 1:13 13:11<br/>39:1,15 40:2<br/>41:16,20 43:8 53:10<br/>58:10 67:4 82:16<br/>85:14 87:7 104:21</p> | <p>107:5,8</p> <p><b>earlier</b> 6:17 8:5 33:18<br/>40:13 67:3 76:4,5<br/>85:1 96:14 103:1</p> <p><b>easily</b> 65:13</p> <p><b>easy</b> 34:25 35:1</p> <p><b>eat</b> 79:23</p> <p><b>eaten</b> 19:15</p> <p><b>ecological</b> 23:24</p> <p><b>economic</b> 88:6,12<br/>105:20</p> <p><b>economy</b> 53:4</p> <p><b>eDNA</b> 16:7 76:23 99:7</p> <p><b>educate</b> 80:25</p> <p><b>education</b> 86:15,21<br/>97:21</p> <p><b>effect</b> 31:16 82:17<br/>106:14 107:12</p> <p><b>effective</b> 9:22 15:16<br/>17:19 18:11 20:11<br/>22:25 25:1 30:9<br/>32:13,18 41:13<br/>43:10<br/>44:13,16,17,18,22<br/>47:11 55:12<br/>75:17,25 76:9,17,20<br/>96:8</p> <p><b>effectively</b> 18:17<br/>34:14 78:24</p> <p><b>effects</b> 35:11</p> <p><b>efficacy</b> 55:12,14 56:8<br/>76:8</p> <p><b>efficient</b> 10:12</p> <p><b>effort</b> 6:10 8:19,20<br/>28:23 53:20 96:22</p> <p><b>efforts</b> 5:4 6:7 18:13<br/>27:12 55:16 71:17</p> <p><b>eggs</b> 83:23</p> <p><b>eight</b> 8:16 38:12 91:11</p> | <p><b>Eighteen</b> 38:20</p> <p><b>either</b> 51:1,21,22<br/>69:16 83:3 99:23<br/>104:1 107:21</p> <p><b>elaboration</b> 61:11</p> <p><b>electric</b> 9:22 11:21,23<br/>31:14 34:21</p> <p><b>electrical</b> 19:24 40:14<br/>74:14 83:1 87:22<br/>90:11</p> <p><b>electricity</b> 77:23 90:4</p> <p><b>electro-fishing</b><br/>14:9,13,16</p> <p><b>electronic</b> 3:14</p> <p><b>eliminated</b> 6:8</p> <p><b>else</b> 27:2 28:14 67:10<br/>76:7 83:12 87:10</p> <p><b>E-mail</b> 49:5,7 104:1</p> <p><b>E-mailed</b> 108:2</p> <p><b>Emerald</b> 81:10</p> <p><b>emergency</b> 63:1</p> <p><b>emotion</b> 54:20</p> <p><b>emotion-laden</b><br/>54:22</p> <p><b>emphasis</b> 23:20</p> <p><b>emphasize</b> 27:4,18<br/>64:9 73:8</p> <p><b>employ</b> 25:3</p> <p><b>employed</b> 109:8,11</p> <p><b>employee</b> 109:10</p> <p><b>encourage</b> 17:16</p> <p><b>encumbered</b> 60:24</p> <p><b>enduring</b> 55:5</p> <p><b>enemy</b> 55:5 64:5<br/>68:18,19</p> <p><b>energy</b> 62:23<br/>83:3,10,13 90:6<br/>91:12</p> |
|---|---|---|---|

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011  
Page 9

|   |  |  |   |
|---|--|--|---|
| <b>enforcement</b> 97:12<br><b>engage</b> 48:12 94:21<br><b>engaged</b> 55:18<br><b>engagements</b> 71:16<br><b>engineer</b> 78:22 83:1,6<br><b>engineered</b> 24:18<br><b>engineering</b> 18:15<br>24:6 69:25 106:14<br><b>engineers</b> 1:12 2:8 3:6<br>7:14 12:22 13:13<br>14:6 20:8 21:19<br>22:7,12 23:4<br>24:13,18 27:4 28:20<br>30:19 32:21,24<br>38:11,13 40:17 45:5<br>51:16 53:9<br>59:18,19,20 60:4,5<br>69:6 70:17 71:9<br>78:22 81:23 90:12<br><b>enormous</b> 26:6<br><b>ensure</b> 55:19 64:18<br>78:3,8 86:12 96:1<br><b>entered</b> 6:25 68:21<br><b>entering</b> 69:8,12<br><b>entire</b> 22:11 33:24<br>34:13 79:19<br><b>entity</b> 69:19<br><b>entrepreneurs</b> 53:5<br><b>enumerate</b> 73:17<br><b>environmental</b> 2:5<br>7:11 9:16,17 28:6<br>29:12 40:23,24<br>46:10 105:20<br><b>EPA</b> 28:25 40:5 41:3<br>63:23<br><b>equal</b> 50:13 86:5<br><b>eradicate</b> 15:19<br><b>eradicated</b> 16:12<br><b>eradication</b> 59:3<br>89:16 | <b>Erie</b> 13:20 39:5 92:24<br><b>Ernie</b> 61:10 66:9<br>98:24 99:1<br><b>especially</b> 105:25<br><b>established</b> 10:10 12:6<br>13:16 39:25<br><b>establishing</b> 52:20<br><b>estimate</b> 63:17<br><b>estimated</b> 68:4<br><b>et</b> 104:4<br><b>evaluate</b> 9:7 18:3<br>34:18 35:6,10<br><b>evaluated</b> 35:5<br><b>evaluation</b> 15:25 18:4<br><b>Evanston</b> 10:25<br><b>evening</b> 3:8 16:24<br>17:1 30:21 49:20<br>51:4 99:23 102:8<br>108:16<br><b>evening's</b> 3:5 6:1 49:1<br><b>event</b> 28:16 34:5<br>39:10,11 47:21<br><b>events</b> 49:10 102:6<br><b>everybody</b> 9:10 16:25<br>19:25 20:7 21:22<br>43:17 44:3 54:10<br>87:10 98:8<br><b>everyone</b> 9:6 50:13<br><b>everyone's</b> 35:21<br><b>everything</b> 17:14<br>28:14 43:22 47:16<br>93:5<br><b>everywhere</b> 93:12<br><b>evidence</b> 76:23<br><b>evolve</b> 26:16 44:23<br>46:2<br><b>evolves</b> 43:15 45:18<br><b>ex</b> 98:17 | <b>exactly</b> 60:6 74:17<br>75:22<br><b>example</b> 24:11<br><b>Excellent</b> 86:23 104:9<br><b>exceptions</b> 29:15<br><b>excess</b> 102:9<br><b>excited</b> 91:25<br><b>exclusive</b> 72:11<br><b>exclusively</b> 20:13<br><b>excuse</b> 3:18,21<br><b>execute</b> 55:7 62:5<br>74:2,10<br><b>executed</b> 42:15 77:14<br><b>Executive</b> 103:3,4<br><b>ex-husband</b> 93:2<br><b>exist</b> 28:17 37:6,20<br>38:3<br><b>existing</b> 35:4<br><b>exit</b> 99:11 107:22<br><b>exiting</b> 99:20<br><b>expanding</b> 8:23<br><b>expect</b> 9:12 39:20<br>106:21<br><b>expedite</b> 70:9<br><b>expedited</b> 18:9 43:14<br>76:21,25 105:5<br><b>experience</b> 24:7 25:2<br>61:2 79:4 87:10<br><b>experimented</b> 14:11<br><b>expert</b> 24:18 58:2<br><b>expertise</b> 106:14<br><b>experts</b> 26:17 37:14<br>45:23 85:19 98:22<br><b>expires</b> 109:25<br><b>explained</b> 36:20<br><b>exploit</b> 88:11,14<br><b>export</b> 89:6 | <b>extended</b> 63:5<br><b>extends</b> 27:6<br><b>extinction</b> 88:11<br><b>extra</b> 105:22<br><b>extremely</b> 21:13<br><hr/> <p style="text-align: center;">F</p> <hr/> <b>Facebook</b> 48:16 49:17<br><b>facilitate</b> 37:9<br><b>facilities</b> 3:18 22:13<br><b>facility</b> 7:24<br><b>fact</b> 9:15 12:6 17:24<br>22:19 29:12 39:23<br>44:21 61:4 72:22<br>82:3<br><b>factors</b> 46:10 78:25<br><b>facts</b> 43:15 46:16 47:5<br><b>fair</b> 38:10 50:12<br><b>fairly</b> 34:22 40:12<br>95:11<br><b>fall</b> 13:3 19:23,24 20:4<br>97:6<br><b>falls</b> 26:10 34:7<br><b>familiar</b> 3:17<br><b>famous</b> 61:12<br><b>fan</b> 79:18,19<br><b>fantastic</b> 53:11 82:9<br><b>fashion</b> 7:4 71:11<br><b>fast</b> 72:19<br><b>faster</b> 60:22,23 64:3<br>94:17<br><b>fat</b> 89:11<br><b>fatty</b> 89:11<br><b>fault</b> 58:18<br><b>favorite</b> 80:22<br><b>fear</b> 54:21 56:2<br><b>feasibility</b> 32:22 |
|---|--|--|---|

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011

Page 10

|   |   |   |   |
|---|---|---|---|
| 107:10<br><b>feature</b> 31:20<br><b>features</b> 41:8<br><b>February</b> 47:23 57:21<br><b>federal</b> 8:21 13:5<br>14:21 35:20 55:17<br>67:1 103:5 107:6<br><b>feedback</b> 80:9<br><b>feel</b> 3:21 7:6 16:14,16<br>41:12 50:12 91:24<br>92:16 93:15 96:1<br>98:17<br><b>feet</b> 39:22<br><b>felt</b> 76:25<br><b>fence</b> 13:16 14:3 40:15<br>41:6,7,11<br><b>fertilizer</b> 88:9 89:3<br><b>field</b> 18:12,13 20:12<br>21:12<br><b>fight</b> 48:1,3 55:10 67:7<br>80:2<br><b>fighting</b> 58:9<br><b>figure</b> 15:1 30:8 85:6<br>94:16 97:21<br><b>Fijalkowski</b> 2:17 57:8<br>66:17,18,22,23 70:7<br><b>fill</b> 5:8,11 106:5<br><b>filled</b> 5:9<br><b>finalize</b> 106:24<br><b>finally</b> 92:8 107:18<br><b>financially</b> 109:12<br><b>finding</b> 82:1 93:19<br><b>fine</b> 51:22<br><b>fined</b> 97:15<br><b>firm</b> 47:9<br><b>first</b> 6:3,18 7:9 9:12<br>10:9 17:20 19:9,25<br>21:17 27:21 28:12 | 43:5 51:8 54:15<br>57:21 62:22 65:5<br>70:15,18 71:8 73:19<br>75:7 77:2 87:5 88:20<br>91:15 94:15 104:24<br><b>fish</b> 10:12,17 11:25<br>12:22 13:15<br>14:3,14,18<br>15:2,12,18,19 16:8<br>17:19 18:10,17,25<br>19:2,3,6,7,9,10,12,1<br>5 20:7,11,15,19,21<br>21:5,6,10,14 26:24<br>28:25 29:21 30:4<br>36:24 37:17 42:20<br>47:10 54:2<br>55:10,13,15,20 56:8<br>65:18,21 68:20<br>74:13,18 75:3,17,25<br>76:3,5,6,9,16<br>77:1,2,5,6,8,20,21,2<br>2,23 78:8 79:21<br>83:4,9,11,14 86:3,17<br>88:7,24,25 89:8,12<br>95:13 96:15,23<br>97:11,16,18 98:1<br>99:4,5,8 101:19<br><b>fisheries</b> 72:2 73:5<br><b>fisherman</b> 10:16<br>87:13<br><b>fishermen</b> 83:9<br><b>fishery</b> 68:3<br><b>fishing</b> 46:8 52:9 73:5<br>86:7 89:17<br><b>fishmeal</b> 88:10 89:3<br><b>five</b> 11:20 15:6<br>18:18,19<br>31:4,9,11,18 32:14<br>34:4 41:12 69:13,14<br>70:3 75:25 77:23<br>81:24<br><b>five-year</b> 44:1 92:2<br><b>fix</b> 41:17 80:9 | <b>flat</b> 26:9 72:15,17<br><b>flaw</b> 67:18<br><b>flexible</b> 102:1<br><b>flight</b> 17:12<br><b>float</b> 26:25 83:25<br><b>floating</b> 101:23<br><b>floats</b> 26:25<br><b>flood</b> 34:1 84:17<br><b>flooding</b> 34:12 46:13<br>72:15<br><b>floodplain</b> 13:19<br><b>floods</b> 68:20<br><b>floodwaters</b> 13:25<br><b>flow</b> 11:21 31:9,11<br>32:15 72:24<br><b>flowed</b> 72:25<br><b>flowing</b> 26:3 72:25<br><b>flows</b> 10:23 11:11<br>26:12 39:5,6,8<br>84:12,13<br><b>focus</b> 10:21 25:25<br>28:12 29:22 30:12<br>42:1,17,23,24 44:11<br>46:20 55:1 56:7<br>95:23<br><b>focused</b> 20:12 43:4<br>55:20 85:5 88:22<br><b>focusing</b> 85:2<br><b>folks</b> 32:25 35:18<br>38:11 75:2 80:20<br>83:4 84:22 103:21<br><b>food</b> 15:25 16:4 89:3<br><b>footprint</b> 34:8<br><b>force</b> 22:18<br><b>forcing</b> 58:1<br><b>Fords</b> 59:25<br><b>forecasting</b> 33:12<br><b>foregoing</b> 109:3,4 | <b>forgot</b> 85:24<br><b>fork</b> 31:11<br><b>form</b> 6:25 28:10 39:4<br><b>formal</b> 5:7 48:10<br>49:22<br><b>format</b> 103:24<br><b>formed</b> 38:19<br><b>former</b> 61:12<br><b>formulation</b> 43:12<br><b>Fort</b> 13:10,18 39:2,7,9<br>84:13<br><b>forth</b> 89:13<br><b>Fortunately</b> 97:7<br><b>Forty-three</b> 67:11<br><b>forum</b> 102:20 103:19<br><b>forums</b> 27:11<br><b>forward</b> 15:8 17:1,3<br>36:4 47:3,19 48:19<br>49:15 61:15 108:19<br><b>frankly</b> 45:4 72:13<br>82:6 106:24<br><b>free</b> 3:21 7:6<br><b>frequency</b> 39:19 75:24<br><b>frequently</b> 4:24 5:2<br>72:20 94:22<br><b>freshwater</b> 52:15<br><b>front</b> 9:21 37:17 49:14<br>63:24 70:17 92:13<br>107:22<br><b>frustrated</b> 79:18<br><b>fry</b> 19:15<br><b>full</b> 28:2,3 64:15 79:3<br><b>fully</b> 11:23 71:18,25<br>78:25 79:6<br><b>fumble</b> 91:16<br><b>fun</b> 88:21<br><b>functioning</b> 11:23 |
|---|---|---|---|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011

Page 11

|   |  |  |  |
|---|--|--|--|
| <b>fund</b> 12:17,19,24<br>62:15 101:8<br><b>fundamentally</b> 44:7<br><b>funded</b> 14:21 61:4<br>101:15<br><b>funding</b> 14:21 27:25<br>41:4 54:4 64:14<br>77:16 100:16 101:7<br><b>fundings</b> 100:18<br><b>funds</b> 63:24 89:19<br>101:13<br><b>future</b> 89:13 108:19<br><hr/> <b>G</b><br><hr/> <b>gap</b> 18:18<br><b>gaps</b> 106:5<br><b>gates</b> 63:11 72:21,23<br>85:4<br><b>gather</b> 45:22<br><b>gathered</b> 105:19<br><b>gear</b> 14:11 81:10<br><b>geared</b> 58:16<br><b>general</b> 2:6 7:12 11:25<br>16:24 18:23 21:1<br>26:8 34:23 35:25<br>36:20 37:1 38:24<br>42:5 48:22 49:16<br>53:13 54:3,14 55:3<br>56:22 59:7,24<br>60:14,19 65:17,24<br>66:9,11,14 68:17<br>69:15 70:6,13 81:17<br>84:8,25 87:18 89:24<br>91:15,18,23 94:7<br>98:7,15,20<br>99:3,18,20 102:25<br><b>generated</b> 105:13<br><b>generates</b> 77:22<br><b>generator</b> 90:1,9<br><b>generators</b> 90:1,13,16 | <b>gentleman</b> 47:7 82:15<br><b>gentlemen</b> 65:3,6<br><b>Geological</b> 29:1<br><b>gets</b> 10:9<br><b>getting</b> 8:19 29:5<br>31:17 55:23 80:7<br>89:14 90:3<br><b>given</b> 6:17 10:1<br>39:12,20 49:12 54:7<br>69:19<br><b>gives</b> 21:9,13 29:19<br><b>glad</b> 3:7 108:10<br><b>GLMRIS</b> 3:10 4:9 6:7<br>7:16 23:10 36:14<br>49:6,11,17 53:16<br>55:1 56:11 64:6 65:6<br>101:1 103:8 104:16<br><b>GLMRIS.anl.gov</b><br>65:7<br><b>GLRI</b> 101:25 102:3<br><b>goal</b> 24:5 64:15 79:6<br><b>goals</b> 5:25<br><b>goby</b> 73:24 74:2,13<br><b>God</b> 20:3 91:17<br><b>gold-colored</b> 5:6<br><b>golden</b> 108:1<br><b>gone</b> 53:21 60:12<br>82:25 107:8<br><b>gosh</b> 75:14<br><b>Goss</b> 2:4 7:10 8:11,13<br>17:18 24:20 28:23<br>33:18 36:20 44:14<br>48:15 53:8 55:9<br>56:10,16 80:14 84:6<br>85:24 86:13 87:24<br>88:20 97:4 100:21<br>102:21<br><b>gotten</b> 20:22 48:4 74:3<br><b>governmental</b> 103:6 | <b>governments</b> 22:25<br><b>governors</b> 13:3<br><b>granted</b> 90:14<br><b>great</b> 1:5 2:6 3:10 7:13<br>8:19 9:2,14 10:15<br>12:16,18,24 16:1<br>21:16 22:10 23:9,18<br>25:21 30:1 31:5<br>35:25 37:20,23,25<br>38:3,5 43:18 47:12<br>53:4 54:22 58:7,10<br>59:11 60:12 63:14<br>67:4,11,14<br>68:3,22,24<br>69:8,12,17,24 71:22<br>72:2 74:22 82:21<br>87:6 88:2 89:19,24<br>91:8 94:10 95:4<br>100:17 101:7,23<br>102:5 104:16,21,24<br>105:2,14 107:13<br><b>greater</b> 46:15<br><b>greatest</b> 30:7 67:5<br><b>greatly</b> 42:1<br><b>green</b> 4:4 26:21 50:6<br>58:17<br><b>grew</b> 47:25 79:16<br><b>GRI</b> 63:24<br><b>ground</b> 82:12<br><b>group</b> 13:1,2 93:17<br><b>groups</b> 8:23<br><b>grown</b> 82:19<br><b>Guard</b> 18:3,9<br>19:20,22 20:3 78:3<br><b>guess</b> 53:18 64:2 65:9<br>69:3 84:20 93:8<br><b>guiding</b> 30:21<br><b>gut</b> 96:18<br><b>guy</b> 56:18 98:25<br><b>guys</b> 14:6 66:2 87:16 | 92:6 105:16<br><hr/> <b>H</b><br><hr/> <b>habit</b> 62:9<br><b>habitat</b> 15:24<br><b>half</b> 4:4,11 9:5<br>18:18,19 39:21 41:5<br>44:2 52:14<br>75:21,22,25 77:24<br><b>hall</b> 3:20<br><b>hallway</b> 3:19 5:23<br>108:10<br><b>hand</b> 3:24 20:7 91:4<br>98:25 99:23<br><b>handle</b> 31:12 86:2<br><b>hands</b> 91:1<br><b>hang</b> 19:16<br><b>happen</b> 34:3 73:12<br>81:11 86:20 95:4<br><b>happened</b> 47:24<br><b>happens</b> 18:6 35:12<br>61:16 82:8<br><b>happy</b> 8:24 43:20 92:2<br><b>hard</b> 14:7 62:4 92:20<br>98:2<br><b>hardworking</b> 60:4<br><b>hardy</b> 79:23<br><b>harms</b> 22:3<br><b>haven't</b> 3:23 5:9 62:17<br>82:7 87:16 91:6<br>101:15<br><b>having</b> 56:4 71:13<br>96:13 103:15<br><b>head</b> 83:15<br><b>heading</b> 86:9 97:16<br><b>headquarters</b> 94:21<br>95:15<br><b>headwaters</b> 39:16<br><b>health</b> 34:3,24 |
|---|--|--|--|

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011

Page 12

|  |   |   |  |
|--|---|---|--|
| <p><b>hear</b> 5:5 7:19 51:25<br/>54:21 91:14 92:10</p> <p><b>heard</b> 33:14 50:13<br/>53:3 102:7,9</p> <p><b>hearing</b> 88:1 92:11<br/>94:3 109:3,6,9</p> <p><b>hearts</b> 22:22 54:3</p> <p><b>held</b> 40:4</p> <p><b>Helens</b> 24:11</p> <p><b>help</b> 3:16 5:16 9:6,7<br/>16:23 29:3 33:5,6<br/>35:22 37:15 38:4,5<br/>42:1,16,23,25 45:23<br/>47:1 50:4,22 64:24<br/>66:17 71:17 80:25<br/>81:17 82:25 86:4<br/>99:14 105:21 106:16<br/>108:6</p> <p><b>helped</b> 37:23 40:14<br/>41:4</p> <p><b>helpful</b> 47:15 50:25<br/>52:2</p> <p><b>helping</b> 22:14 37:18<br/>38:7 47:4 64:25<br/>88:25 94:1</p> <p><b>herd</b> 15:18</p> <p><b>herding</b> 83:9</p> <p><b>hereby</b> 109:3</p> <p><b>here's</b> 24:24 57:15<br/>77:20 78:19</p> <p><b>hereto</b> 109:11</p> <p><b>hertz</b> 75:24</p> <p><b>He's</b> 7:23 102:21</p> <p><b>hey</b> 63:23 64:12 74:9<br/>75:9 76:8 77:2 79:2<br/>95:15</p> <p><b>high</b> 21:9,13 39:23<br/>55:12 59:5,6,7 89:10</p> <p><b>higher</b> 19:19 94:21</p> <p><b>highest</b> 42:24 52:19</p> | <p><b>highlight</b> 17:20 23:12<br/>30:12 98:21</p> <p><b>highlighted</b> 85:15</p> <p><b>historically</b> 86:4 88:23</p> <p><b>hit</b> 27:15</p> <p><b>hitchhikes</b> 27:1</p> <p><b>hits</b> 20:22 21:4,6</p> <p><b>hold</b> 3:24 79:22</p> <p><b>holding</b> 12:10,11</p> <p><b>Holmes</b> 47:17</p> <p><b>home</b> 93:18</p> <p><b>honor</b> 36:8</p> <p><b>hope</b> 17:8 41:23 43:11<br/>46:14 79:17 80:4<br/>91:14 92:23</p> <p><b>hopeful</b> 71:17</p> <p><b>hopefully</b> 15:12 89:15<br/>98:2</p> <p><b>hopes</b> 89:21</p> <p><b>horses</b> 60:20,21</p> <p><b>host</b> 22:4 46:11 70:21<br/>77:19</p> <p><b>hosting</b> 6:9 7:23 8:1</p> <p><b>hour</b> 9:5 91:12 102:8</p> <p><b>hours</b> 102:9,10 103:23</p> <p><b>House</b> 2:4 7:11 9:18</p> <p><b>huge</b> 43:23 85:25<br/>87:19</p> <p><b>human</b> 34:3 81:5<br/>85:24 97:2</p> <p><b>hundred</b> 11:6 21:5<br/>78:15 79:3</p> <p><b>Huns</b> 85:3</p> <p><b>Huntington</b> 13:18</p> <p><b>hurdles</b> 81:18,21</p> <p><b>Huron</b> 1:14 79:20</p> <p><b>hydrologic</b> 23:20 35:2</p> | <p>38:8 105:3,10,12</p> <p><b>hydrologically</b> 23:24<br/>26:10 83:24</p> <hr/> <p>I</p> <hr/> <p><b>idea</b> 16:10 69:25<br/>92:14</p> <p><b>ideal</b> 25:15</p> <p><b>ideas</b> 82:3,4,10 86:20</p> <p><b>identical</b> 6:16</p> <p><b>identified</b> 9:24 13:24<br/>14:15,19 16:9 34:16<br/>37:25 38:17 52:17<br/>53:14 58:13,22<br/>88:23 90:23 100:24</p> <p><b>identify</b> 13:13 38:7<br/>85:8 106:8,17</p> <p><b>ignore</b> 44:20</p> <p><b>I'll</b> 4:2 35:23 48:18<br/>50:10 57:8 65:9<br/>66:16 67:5 77:18<br/>84:21 88:20 91:5<br/>97:1 100:2,5<br/>104:23,25 107:14</p> <p><b>illegal</b> 97:9,14</p> <p><b>Illinois</b> 12:4,7 13:6<br/>72:25 74:3 88:21<br/>89:20</p> <p><b>I'm</b> 3:4,6 8:10,14 9:18<br/>10:16 12:2 17:17<br/>22:10 23:11<br/>24:15,16 26:18<br/>28:18 29:13<br/>30:10,18 34:21<br/>52:5,7,8 53:2,25<br/>57:13,14,23 58:4,5<br/>61:17,18 63:5 64:23<br/>65:8,19,22 66:25<br/>70:24 72:13,16<br/>79:18 80:21 82:1<br/>83:6,7 84:20 87:12<br/>88:13 94:7,11,14,15<br/>95:5,6,9,18,19 99:9</p> | <p><b>imagery</b> 26:15</p> <p><b>imagine</b> 90:7 103:17<br/>104:7</p> <p><b>immediate</b> 9:25 13:10</p> <p><b>impact</b> 16:2 28:7 30:7<br/>74:5 105:20</p> <p><b>impacted</b> 71:22</p> <p><b>impacts</b> 29:10<br/>34:18,22 35:4,6,8<br/>44:8 46:11,13 72:6<br/>73:5,10</p> <p><b>implement</b> 10:2 35:14<br/>37:4 40:19 79:14<br/>105:3</p> <p><b>implementation</b> 40:21</p> <p><b>implemented</b> 41:16</p> <p><b>implementing</b> 34:19<br/>41:23</p> <p><b>implication</b> 78:16,18</p> <p><b>importance</b> 53:4</p> <p><b>important</b> 4:12 23:7<br/>32:9 33:3,8,23,25<br/>44:23 49:10 56:17<br/>64:5 67:10 68:25</p> <p><b>importantly</b> 22:24</p> <p><b>impossible</b> 22:20<br/>46:24 96:3</p> <p><b>impressive</b> 38:16</p> <p><b>improve</b> 46:22 55:15<br/>64:17</p> <p><b>improved</b> 77:13</p> <p><b>impulses</b> 90:5</p> <p><b>inaccuracies</b> 55:25</p> <p><b>inch</b> 75:9,12,24</p> <p><b>inches</b> 18:18,20 19:1<br/>75:25 77:24</p> <p><b>include</b> 8:23 46:13</p> <p><b>included</b> 6:7 27:1,2</p> <p><b>includes</b> 29:9 95:2</p> |
|--|---|---|--|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011  
Page 13

|  |  |   |  |
|--|--|---|--|
| <p>100:22,25<br/> <b>including</b> 22:6 41:19<br/> 65:10 89:3<br/> <b>increase</b> 43:9 90:13<br/> <b>increased</b> 46:17<br/> <b>incrementally</b> 25:3,14<br/> 46:22 55:15,16<br/> 62:10 64:17 77:7<br/> <b>indeed</b> 50:2<br/> <b>Indiana</b> 11:2 13:10,17<br/> 39:2 40:6 41:1<br/> <b>indicated</b> 6:15 49:21<br/> 57:3 70:17 76:3,5<br/> <b>indication</b> 55:24<br/> <b>indications</b> 77:2<br/> <b>individuals</b> 8:25<br/> <b>industrial</b> 74:19<br/> <b>industries</b> 73:5<br/> <b>industry</b> 34:15 35:21<br/> 59:15 61:17 72:3<br/> 73:6 88:14<br/> <b>infamous</b> 61:12<br/> <b>infected</b> 81:7<br/> <b>infested</b> 86:8<br/> <b>inform</b> 26:15 71:17<br/> 81:1 105:15,21,24<br/> <b>informal</b> 71:16<br/> <b>informally</b> 98:10<br/> <b>information</b> 4:9 6:2<br/> 8:12 16:6 21:11,13<br/> 25:12 33:11 34:17<br/> 35:9 36:15,19 37:13<br/> 39:22 42:16 47:14<br/> 49:4,14 53:23<br/> 54:2,7,8 55:14,23<br/> 56:17,19 58:7 64:10<br/> 65:5,10,11,15,18<br/> 70:4 73:11 77:1,12<br/> 80:8 87:6,11<br/> 105:7,13,19 106:1</p> | <p>108:5<br/> <b>informational</b> 49:12<br/> <b>informed</b> 49:15 71:14<br/> 81:9<br/> <b>infrastructure</b> 22:23<br/> <b>initial</b> 43:2<br/> <b>initially</b> 78:24<br/> <b>Initiative</b> 63:14<br/> <b>inlets</b> 74:19<br/> <b>input</b> 35:22 37:16<br/> 47:2,4 67:16,22<br/> <b>insects</b> 29:23<br/> <b>inside</b> 63:22 70:23<br/> 71:9<br/> <b>insignificant</b> 6:7 33:4<br/> <b>inspect</b> 81:9<br/> <b>inspected</b> 97:18<br/> <b>inspired</b> 56:3<br/> <b>installation</b> 74:23<br/> <b>instance</b> 29:13<br/> <b>instances</b> 29:15<br/> <b>instantly</b> 18:7<br/> <b>instead</b> 62:5 72:24<br/> <b>insufficient</b> 53:20<br/> <b>insurgencies</b> 22:21<br/> <b>Insurgency</b> 22:19<br/> <b>integrators</b> 82:11<br/> <b>intend</b> 15:7 64:8,11<br/> 71:18,25 79:6<br/> <b>intensive</b> 96:22<br/> <b>intent</b> 46:14<br/> <b>interact</b> 21:23 31:7<br/> <b>Interbasin</b> 1:6 3:11<br/> 9:3 21:17 23:9 43:19<br/> 103:14 105:11<br/> <b>intercepted</b> 97:6</p> | <p><b>interest</b> 72:12<br/> <b>interested</b> 6:11 8:24<br/> 20:17 27:8,12 40:5,9<br/> 49:4 52:24 71:21<br/> 89:7 109:12<br/> <b>interesting</b> 5:1 29:19<br/> 42:13<br/> <b>interim</b> 14:23 29:6<br/> 41:12 45:20 46:21<br/> 107:9<br/> <b>International</b> 27:10<br/> 71:15<br/> <b>inter-reports</b> 29:7<br/> <b>intervening</b> 68:23<br/> <b>introductory</b> 8:9<br/> <b>intuitively</b> 76:14,15<br/> <b>invasion</b> 68:15 69:9<br/> <b>invasive</b> 10:8 16:20<br/> 37:22 42:19 64:19<br/> 73:21,22 74:12<br/> 75:12<br/> <b>invent</b> 23:14<br/> <b>inventory</b> 37:5 43:3<br/> <b>inventorying</b> 33:12<br/> <b>investigate</b> 47:17<br/> <b>investigating</b> 59:2<br/> <b>investigations</b> 78:2<br/> <b>investments</b> 36:22<br/> <b>involve</b> 34:2<br/> <b>involved</b> 9:17 38:13<br/> 67:1 82:22 88:14<br/> <b>involvement</b> 49:9<br/> 107:6<br/> <b>Iraq</b> 22:12<br/> <b>irrelevant</b> 63:6<br/> <b>irresponsible</b> 79:7<br/> <b>isn't</b> 82:20 87:25<br/> 93:21</p> | <p><b>issue</b> 41:17 44:6,10<br/> 52:25 55:18 62:17<br/> 63:2,24 64:21 69:15<br/> 72:13 73:24 74:7,12<br/> 84:9 85:16 87:10<br/> 90:2,10 107:6<br/> <b>issues</b> 6:6,8 52:23<br/> 62:20 72:14 96:9,11<br/> <b>item</b> 11:22<br/> <b>it's</b> 11:15 12:9,23 18:1<br/> 21:20,21 25:2,8,18<br/> 26:9,13,22,23,24,25<br/> 29:20<br/> 33:1,8,16,22,23<br/> 35:13 36:6,8<br/> 41:7,9,10,11<br/> 42:11,18 43:25 45:5<br/> 46:20,24 47:3,4<br/> 51:18,23 53:18 55:2<br/> 57:11 59:21,22<br/> 60:12,21,23 63:4,5,6<br/> 64:5,9,18 65:8 67:18<br/> 68:6 72:15 74:5<br/> 75:23 76:17 77:21<br/> 78:15 81:21<br/> 85:11,13,25 86:1<br/> 88:2,11,16,21<br/> 89:8,22,25 90:4,5,25<br/> 91:9,13 92:14 93:25<br/> 95:11 96:2,8,19,21<br/> 97:4,20 102:16<br/> 107:5,19<br/> <b>I've</b> 3:12 14:12 17:12<br/> 27:3 47:1 52:22<br/> 53:20 55:11 57:4<br/> 58:9 65:24 79:15<br/> 95:25 102:23<br/> <hr/> J<br/> <hr/> <b>jeopardy</b> 10:18<br/> <b>Jim</b> 56:18<br/> <b>job</b> 54:5 55:23<br/> 56:5,6,20 60:15,16<br/> 80:7 104:21</p> |
|--|--|---|--|



Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011

Page 14

|   |  |   |   |
|---|--|---|---|
| <p><b>Joe</b> 84:9 85:17</p> <p><b>Jo-Ellen</b> 62:25</p> <p><b>Joe's</b> 82:20 84:12</p> <p><b>John</b> 2:4,6 7:9,10,12<br/>56:15 63:16 74:4<br/>76:12 77:7 80:13,14<br/>96:25 97:1</p> <p><b>Joint</b> 27:10 71:15</p> <p><b>Joseph</b> 39:5 82:19<br/>84:12</p> <p><b>jot</b> 5:22</p> <p><b>judgment</b> 24:7 25:6<br/>79:5</p> <p><b>July</b> 40:4 72:23</p> <p><b>jump</b> 19:22 29:21</p> <p><b>jumped</b> 38:25</p> <p><b>June</b> 37:3</p> <p><b>Junk</b> 39:15</p> <p><b>jurisdiction</b> 71:8<br/>93:23</p> <hr/> <p><b>K</b></p> <hr/> <p><b>Kankakee</b> 12:4 86:8</p> <p><b>Keifer</b> 2:15 51:8<br/>52:4,5 54:17<br/>65:4,15,19,22 66:2,6<br/>67:6 80:6 104:11</p> <p><b>Kelly</b> 18:21 20:6,15<br/>56:22 75:2 99:5</p> <p><b>Kevin</b> 2:11 3:4 8:14<br/>48:19 51:13 98:7<br/>99:9,10</p> <p><b>key</b> 49:14 85:16</p> <p><b>kid</b> 79:20</p> <p><b>kinds</b> 20:16 29:25<br/>46:10</p> <p><b>knocked</b> 87:20</p> <p><b>knocking</b> 67:24</p> <p><b>knock-out</b> 60:14</p> | <p><b>knowledge</b> 24:6</p> <p><b>known</b> 36:15,24<br/>37:20,23 38:1,3<br/>68:21</p> <p><b>Kurt</b> 2:18 66:20 80:21<br/>100:14</p> <hr/> <p><b>L</b></p> <hr/> <p><b>lab</b> 21:11</p> <p><b>labeled</b> 51:2</p> <p><b>laboratory</b> 18:12,16</p> <p><b>Lacey</b> 97:8,12</p> <p><b>lady</b> 85:1 98:16</p> <p><b>lake</b> 11:3,8,12,20<br/>12:12 13:20 14:3<br/>31:19 34:10 39:5<br/>52:10,14,18 53:5<br/>68:8 73:1,10,25<br/>84:12,15 86:10<br/>92:24 93:14</p> <p><b>lakes</b> 1:5 2:6 3:10 7:13<br/>8:20 9:2,14 10:15<br/>12:16,19,24 16:1,21<br/>21:16 22:10 23:9,18<br/>25:21 30:2 31:4,5<br/>37:20,23,25 38:3<br/>43:18 59:11 60:12<br/>63:14 67:11<br/>68:3,22,25<br/>69:8,12,17,25 71:22<br/>72:2 82:21 88:2<br/>89:19 91:14 95:4<br/>100:17 101:7,23<br/>104:16,24 105:2,14</p> <p><b>lakeshore</b> 31:3</p> <p><b>lamprey</b> 100:16</p> <p><b>land</b> 26:23 84:11</p> <p><b>large</b> 12:6 74:19<br/>83:8,19</p> <p><b>larger</b> 18:17 76:1<br/>77:24</p> <p><b>largest</b> 12:7 39:19</p> | <p>52:15 58:23,24</p> <p><b>last</b> 5:19 7:17 8:4,5,13<br/>9:25 13:3,8 17:6<br/>37:3 47:8,21 48:8<br/>56:14 63:4 69:23<br/>72:22 87:3,15 91:25<br/>93:3,17 97:5,6 98:2<br/>99:21 100:2,4,10<br/>102:11 108:6,14</p> <p><b>lasting</b> 55:5</p> <p><b>late</b> 59:20 85:4</p> <p><b>later</b> 12:1 56:21 93:7</p> <p><b>lavender</b> 4:24</p> <p><b>law</b> 45:15,16,18 70:18<br/>72:9,10 74:11 94:19<br/>95:1</p> <p><b>laws</b> 27:19 28:7,8 62:8<br/>70:21<br/>71:1,3,4,6,8,10<br/>81:20 94:25</p> <p><b>leader</b> 12:16</p> <p><b>leads</b> 47:16,18 82:20</p> <p><b>leap</b> 43:25</p> <p><b>learn</b> 6:12 54:14 61:14</p> <p><b>learned</b> 54:15</p> <p><b>least</b> 43:14 46:22<br/>87:14 89:16 97:12<br/>103:18</p> <p><b>leave</b> 17:11,15 69:3<br/>98:8 107:21 108:8</p> <p><b>led</b> 55:8</p> <p><b>left-hand</b> 32:20 42:9</p> <p><b>legal</b> 29:11 44:4,6<br/>60:25 78:8 81:18<br/>92:3 94:23,24</p> <p><b>legislation</b> 78:12</p> <p><b>legwork</b> 38:11</p> <p><b>length</b> 24:21</p> <p><b>less</b> 12:23 41:5 62:3<br/>108:15</p> | <p><b>let's</b> 23:8 25:17 29:17<br/>59:14 70:8</p> <p><b>level</b> 39:12 101:2,10</p> <p><b>leveraging</b> 55:13</p> <p><b>Lia</b> 2:20 91:9</p> <p><b>liberty</b> 6:25</p> <p><b>life</b> 34:3,24 41:11 53:3<br/>73:2</p> <p><b>lifelong</b> 87:12,13</p> <p><b>lifetime</b> 79:19</p> <p><b>lifetimes</b> 24:12</p> <p><b>likely</b> 16:3 25:2 30:7<br/>73:12</p> <p><b>Likewise</b> 13:22</p> <p><b>limited</b> 75:4</p> <p><b>line</b> 25:19 26:2 51:2,3<br/>75:21 95:23</p> <p><b>lines</b> 70:24 90:15<br/>103:22</p> <p><b>list</b> 2:13 15:5 37:19<br/>43:4 49:5,7 51:3<br/>90:22</p> <p><b>listed</b> 38:23 46:12</p> <p><b>listen</b> 33:1 103:21,25</p> <p><b>lists</b> 37:24</p> <p><b>Listserve</b> 66:7</p> <p><b>literature</b> 42:15</p> <p><b>littering</b> 79:22</p> <p><b>little</b> 3:16 5:21 8:11<br/>10:24 11:12 19:16<br/>20:19 21:2 24:20<br/>25:23 28:1 29:23<br/>30:22,23 36:19,24<br/>40:7,13 49:13<br/>51:4,20 92:24 102:8<br/>106:23</p> <p><b>live</b> 52:14 67:11,14,18<br/>93:18,20,24 97:16</p> <p><b>local</b> 21:18</p> |
|---|--|---|---|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011  
Page 15

|   |  |  |  |
|---|--|--|--|
| 22:14,15,24 26:17<br>35:20 40:8 85:19<br><b>locally</b> 37:14<br><b>locals</b> 106:16<br><b>locate</b> 16:3<br><b>located</b> 31:2<br><b>location</b> 19:21 39:2<br>40:1 41:16 43:13<br><b>locations</b> 27:3<br>38:9,17,20,25<br>103:20<br>106:4,8,12,20<br>107:4,11<br><b>lock</b> 12:5 32:4,6 34:9<br>72:21,23<br><b>Lockport</b> 19:12<br><b>locks</b> 32:16 54:11<br>63:12 73:8 76:14<br><b>long</b> 16:20 17:16 37:6<br>44:3 55:4 58:21<br>61:7,9 64:2 88:16<br>90:17<br><b>longer</b> 108:8<br><b>longest</b> 85:12<br><b>long-term</b> 14:23 41:17<br>64:6 107:12<br><b>longwinded</b> 64:20<br><b>lose</b> 90:10<br><b>losing</b> 54:3<br><b>loss</b> 73:2 87:19,22<br>89:25<br><b>lost</b> 60:8<br><b>lot</b> 8:13 10:3,8 11:12<br>17:6 23:21 26:14<br>27:15 29:18 33:15<br>36:15 38:11 43:20<br>52:23 61:2 72:18<br>81:14 82:2 83:10,17<br>86:5 88:7,8,9 90:7<br>94:25 102:24 106:13 | <b>lots</b> 22:1 27:18 28:7,8<br>95:12<br><b>loud</b> 65:25<br><b>lousy</b> 80:7<br><b>love</b> 81:13<br><b>low</b> 89:11<br><b>luck</b> 83:22<br><b>lunch</b> 79:23<br><b>luxury</b> 92:22,25 93:3<br><hr/> M<br><hr/> <b>magical</b> 8:16<br><b>magnet</b> 16:11<br><b>magnitude</b> 68:7 79:12<br><b>main</b> 53:18 90:9,10,14<br><b>mainstream</b> 101:22<br><b>maintain</b> 32:8,12 54:4<br><b>major</b> 2:6 7:12 46:4<br><b>majority</b> 11:13 101:7<br><b>maker</b> 95:9,10<br><b>makeup</b> 33:19<br><b>man</b> 24:10 99:11<br><b>manage</b> 49:25 50:4<br><b>management</b> 13:6<br>34:1 46:5 82:5<br>106:18<br><b>manager</b> 2:9,10<br>7:16,18 30:11,18<br>56:6 59:17<br><b>mandate</b> 69:19<br><b>maneuver</b> 94:20<br><b>manmade</b> 11:5 24:16<br><b>manner</b> 19:20 23:1<br>74:16<br><b>manufacturing</b> 59:19<br>60:5<br><b>map</b> 11:5 13:23 25:18 | 37:7<br><b>mapping</b> 26:15<br><b>maps</b> 11:19<br><b>March</b> 1:9 4:22 6:14<br>48:10 108:1<br><b>Mark</b> 75:8<br><b>market</b> 89:14,18<br>97:17<br><b>marketable</b> 88:22<br><b>marketing</b> 89:5,6<br><b>married</b> 93:4<br><b>Marriott</b> 1:13<br><b>marsh</b> 13:11 39:2,16<br>40:2 41:16,20<br>43:8,10 53:10 58:10<br>67:4 82:16 84:18<br>85:14 87:7 104:21<br>107:5,8<br><b>Mary's</b> 39:8<br><b>mass</b> 83:8,20<br><b>massive</b> 63:21<br><b>material</b> 53:23<br><b>materials</b> 3:24 4:2<br>5:13 61:19 108:6,7<br><b>matter</b> 1:11 68:8<br><b>matures</b> 25:12<br><b>Maumee</b> 13:20<br>39:4,13 82:17<br><b>may</b> 6:22 24:8,9,17,22<br>32:17 35:3 44:15,21<br>46:18 50:23 60:24<br>76:3,4 77:5 79:5,9<br>84:13 94:20 103:19<br>104:2 105:6,22<br>106:23<br><b>maybe</b> 16:8 29:5 30:3<br>33:4 34:4 44:2 99:25<br>103:16,17 105:9<br><b>mean</b> 33:13 58:10<br>62:11 67:20 95:11 | 96:3<br><b>means</b> 26:9<br>78:14,16,17<br><b>meant</b> 59:9<br><b>meantime</b> 25:6<br><b>Meanwhile</b> 75:18<br><b>measures</b> 43:9<br><b>meat</b> 89:9<br><b>mechanism</b> 55:7<br><b>media</b> 23:21 24:4<br>48:13<br><b>meet</b> 45:9,13,14,16<br>78:3 102:19 106:2<br><b>meeting</b> 1:1 3:9,11,22<br>4:6 5:25 6:1,16<br>7:3,7,24 8:10 21:16<br>40:4 46:3 47:8<br>48:5,8,9 49:2<br>57:21,22,24 67:6<br>69:23 103:17,18<br>108:14,17,20<br><b>meetings</b> 6:9 46:1<br>54:15 58:4 60:1<br>103:15<br><b>meets</b> 105:25<br><b>member</b> 52:8 57:15<br><b>members</b> 1:12 2:2 7:6<br>22:13<br><b>memory</b> 11:18<br><b>men</b> 7:19<br><b>mention</b> 50:17 107:20<br><b>mentioned</b> 17:18<br>33:18 34:23 35:18<br>49:16 65:4 85:24<br>101:14<br><b>message</b> 60:9<br><b>methods</b> 14:22 59:3<br><b>Metro</b> 52:8<br><b>Mexico</b> 93:21 |
|---|--|--|--|

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011

Page 16

|   |   |   |   |
|---|---|---|---|
| <b>Michael</b> 2:10<br><b>Michigan</b> 1:8,14<br>11:12,20 12:12<br>31:19 34:10 39:6<br>52:6,10,13,16,19<br>53:6 57:12,22 66:23<br>67:9 68:9 69:1<br>73:1,11,25 82:21<br>84:12,16,22 85:20<br>86:10 87:12,13<br>91:13 92:1 93:10<br>102:17 109:24<br><b>Michiganders</b> 53:2<br>79:17<br><b>micro</b> 29:23<br><b>microphone</b> 7:2 50:20<br>51:1,19,21,24 99:24<br>100:1,9,12 102:13<br>107:17<br><b>microscope</b> 94:16<br><b>mid</b> 40:4 59:20<br><b>midnight</b> 17:14<br><b>migrating</b> 36:23 95:2<br><b>migration</b> 26:5 32:18<br>36:17 37:9 38:22<br>106:15,19<br><b>Mike</b> 7:17,22,23 13:11<br>35:15 36:2,5 42:5<br>43:1 84:8 98:22<br>104:25 107:13<br><b>mile</b> 14:3 37:6<br><b>miles</b> 26:7 40:1 86:9<br><b>military</b> 37:3<br><b>million</b> 11:17 12:21<br>52:14 63:18,19<br>67:11,17 68:1,5 70:5<br>77:17 97:11<br>100:16,23<br><b>millions</b> 34:14<br><b>milliseconds</b> 75:24<br><b>mind</b> 6:22 93:22 104:1 | <b>minds</b> 22:22 54:3 82:3<br><b>minimal</b> 34:23<br><b>minimum</b> 45:22<br><b>minnows</b> 69:20 86:7,9<br><b>minute</b> 49:22 62:12<br><b>minutes</b> 30:20<br>50:6,7,9,10<br><b>Mississippi</b> 1:5 3:10<br>9:3 11:11 14:25<br>18:16 21:16 23:9<br>25:19,21 30:3<br>31:6,18 34:11<br>37:21,22 38:1,2<br>43:18 68:21 69:17<br>73:25 88:4,8,15<br><b>Missouri</b> 15:1<br><b>mitigate</b> 107:7<br><b>mitigating</b> 35:7<br><b>mitigation</b> 34:25 35:7<br><b>mobile</b> 47:10<br><b>mode</b> 3:15<br><b>moderator</b> 2:11 3:4<br>48:19<br><b>modulate</b> 75:16<br><b>momentarily</b> 4:3<br><b>moms</b> 22:2<br><b>Monday</b> 93:13<br><b>money</b> 12:17,19 15:9<br>27:25 60:13<br>63:21,25 64:1 89:20<br>100:18,25<br>101:19,24,25 102:1<br>106:13<br><b>moneys</b> 63:15<br><b>monitoring</b> 8:3 14:9<br><b>Montgomery</b> 2:20<br>91:9,20 98:6<br><b>month</b> 4:23 8:5 75:20<br><b>months</b> 9:25 13:15 | 41:6 59:23 60:9<br>87:15<br>92:6,7,15,16,18<br>101:13 104:7<br><b>morning</b> 93:13<br><b>mostly</b> 74:19<br><b>Mother</b> 48:1,2<br><b>motion</b> 15:7<br><b>Motors</b> 59:24<br><b>Mount</b> 24:11<br><b>mouth</b> 3:12 10:17<br><b>move</b> 21:10 23:25<br>29:24 44:12 64:19<br>72:19 94:17 97:9<br>104:2 107:16<br><b>moved</b> 21:7 86:3<br><b>moves</b> 24:2 26:22<br><b>moving</b> 9:7 16:20<br>49:19 66:16<br>73:21,24,25 75:3,12<br>77:22 80:16 85:9<br><b>multi</b> 32:23<br><b>multitude</b> 44:7<br><b>municipal</b> 33:22,23<br><b>mute</b> 3:15<br><b>myriad</b> 69:16<br><b>myself</b> 7:9 21:22<br>107:22<br><b>mystery</b> 8:16<br><hr/> N<br><hr/> <b>Nancy</b> 9:19<br><b>narrow</b> 29:15 37:24<br>42:23 88:16<br><b>Nation</b> 21:23,25 25:7<br>45:6,19 63:13<br><b>National</b> 29:11 40:23<br><b>Nations</b> 22:14,15<br><b>Nation's</b> 22:3 | <b>native</b> 10:14 15:2<br><b>natural</b> 15:2 40:6<br>69:23 95:1<br><b>naturally</b> 20:18<br><b>nature</b> 24:10 48:1,2<br>81:20<br><b>navigate</b> 19:25 20:2<br><b>navigation</b> 33:15,16<br>46:7 72:3,11 73:6<br>78:4,6<br><b>Navy</b> 10:25<br><b>nearest</b> 7:9<br><b>necessarily</b> 19:2,6<br>24:15 26:14<br><b>negative</b> 35:6,7<br><b>negligence</b> 67:25<br><b>neither</b> 27:5 109:7<br><b>NEPA</b> 1:1 3:11 6:13<br>28:8 108:3<br><b>nets</b> 14:10<br><b>netting</b> 14:10,16,17<br>86:12<br><b>network</b> 53:25 56:17<br><b>news</b> 11:22 28:1 49:10<br><b>newsprint</b> 55:24<br><b>NGO</b> 40:7<br><b>NGOs</b> 45:24<br><b>nice</b> 5:15<br><b>Nickel</b> 79:20<br><b>night</b> 58:21 91:16 93:3<br><b>nine</b> 52:22 74:23<br><b>Nineteen</b> 77:16<br><b>nobody</b> 82:10<br><b>none</b> 21:7 100:5<br><b>Nonetheless</b> 74:7<br><b>nonpolitical</b> 21:18<br><b>nooks</b> 19:16 |
|---|---|---|---|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011

Page 17

|  |   |  |   |
|--|---|--|---|
| <b>nor</b> 109:8,12<br><b>normal</b> 90:4<br><b>normally</b> 76:24<br><b>north</b> 10:24 31:3<br>67:14 68:22<br><b>northern</b> 47:25<br><b>northwest</b> 39:9<br><b>Norwalk</b> 79:16<br><b>nose</b> 79:23<br><b>Notary</b> 109:1,23<br><b>note</b> 6:13 49:3<br><b>nothing</b> 52:25 53:1<br>68:19,23 73:14,18<br><b>notice</b> 30:25<br><b>noting</b> 4:21<br><b>November</b> 57:22<br><b>nuances</b> 26:11<br><b>nuisance</b> 23:17 30:6<br>34:19 35:12,16<br>42:22<br><hr/> <b>O</b><br><hr/> <b>Obama</b> 9:14<br><b>Obama's</b> 100:22<br><b>obey</b> 81:20<br><b>objectively</b> 25:10<br><b>objectives</b> 21:24<br><b>obligation</b> 78:7,8 96:1<br><b>O'Brien</b> 32:6<br><b>obstacles</b> 24:17<br><b>obstruct</b> 85:8<br><b>obstructed</b> 85:12<br><b>occur</b> 39:11,20<br><b>occurred</b> 24:12 87:14<br><b>occurs</b> 39:14<br><b>oceans</b> 88:17 | <b>o'clock</b> 6:19<br><b>October</b> 109:25<br><b>offense</b> 81:21<br><b>office</b> 21:19<br><b>officer</b> 109:2<br><b>offices</b> 67:8<br><b>oh</b> 57:7 62:7 70:7<br>75:14<br><b>Ohio</b> 2:7 7:13 15:1<br>22:10 23:18 25:20<br>39:8 47:25 79:16<br><b>old</b> 59:12 79:18<br><b>OMB</b> 101:4<br><b>ones</b> 30:6 38:23 43:4<br><b>ongoing</b> 100:15,18,23<br><b>open</b> 3:21 34:8<br>72:20,23<br><b>openings</b> 41:10<br><b>operate</b> 32:8,11 44:12<br>76:13 78:23<br><b>operating</b> 18:7<br>19:5,7,19 75:10<br>77:10,12<br><b>operation</b> 17:25 18:1<br>67:2 101:9<br><b>operations</b> 86:11<br><b>opinion</b> 95:19,20<br><b>opinions</b> 33:5<br><b>opportunities</b> 6:11<br>32:23 33:2 49:9<br><b>opportunity</b> 31:6<br>49:23 50:13 53:7<br>71:3 80:11 87:8<br>103:20 104:13<br><b>optimal</b> 105:9<br><b>optimally</b> 61:4<br><b>option</b> 64:13 71:6<br><b>options</b> 23:13 41:15 | 43:13,24 46:17,19<br>64:11 106:9 107:11<br><b>oral</b> 6:12 49:20<br><b>order</b> 3:3 5:17 19:19<br>20:10 30:2 34:7<br>45:17 68:6 79:12<br><b>orders</b> 70:25<br><b>organisms</b> 24:22<br><b>organization</b> 28:18<br>50:22 80:23,24,25<br>82:6 83:1<br><b>organizations</b> 8:25<br><b>organized</b> 6:16<br><b>orientation</b> 62:5<br><b>original</b> 10:22 11:1<br><b>originally</b> 69:7<br><b>others</b> 31:22<br><b>otherwise</b> 96:5 109:12<br><b>ought</b> 67:7 70:2 95:16<br><b>ourselves</b> 56:5 75:16<br><b>outbreak</b> 16:2<br><b>outcome</b> 44:19<br>45:1,11 109:12<br><b>outcomes</b> 95:23<br><b>outcompeting</b> 10:14<br><b>outflanked</b> 37:2<br><b>outline</b> 43:13<br><b>outlined</b> 103:3<br><b>outreach</b> 52:5 53:19<br><b>outside</b> 5:12 27:19<br>28:15 32:25 65:11<br>71:6<br><b>overcome</b> 81:18<br><b>overcoming</b> 24:10<br><b>overhead</b> 50:6<br><b>overseas</b> 23:5<br><b>overview</b> 4:9 | <hr/> <b>P</b><br><hr/> <b>p.m</b> 1:15 108:20<br><b>Packers</b> 91:21<br><b>packet</b> 3:23,25 4:8<br>5:23 108:13<br><b>packets</b> 108:13<br><b>PAGE</b> 2:13<br><b>pages</b> 109:5<br><b>paid</b> 21:17<br><b>panel</b> 1:12 2:2 4:15<br>5:8,10 17:17 50:1,18<br>74:8 91:2 107:16<br><b>panelist</b> 7:9<br><b>panelists</b> 7:8<br><b>panic</b> 54:21 56:2<br><b>paper</b> 42:21<br><b>parallel</b> 13:23<br><b>parameters</b> 19:5,8,19<br>75:10,16,23<br>77:10,12 78:1,4<br>95:14,16 106:1<br><b>parasite</b> 27:1<br><b>particular</b> 21:20<br>45:24<br><b>parties</b> 40:9 109:9,11<br><b>partners</b> 55:17<br><b>partnership</b> 97:23<br><b>pass</b> 28:4<br><b>passage</b> 67:5 78:9<br><b>passed</b> 50:9 78:13<br><b>passenger</b> 33:15 78:10<br><b>passion</b> 54:20 79:15<br>87:12 92:24 99:12<br><b>past</b> 72:23 76:16<br><b>pat</b> 64:22<br><b>paths</b> 61:21<br><b>pathway</b> 33:24 38:19 |
|--|---|--|---|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011  
Page 18

|   |   |  |   |
|---|---|--|---|
| <p>74:18 82:22 106:15</p> <p><b>pathways</b> 2:10 7:18<br/>9:23 13:9 29:24<br/>35:15 36:3,12,18,25<br/>37:6,9 38:8 41:19<br/>42:3 43:3,8 81:4,5<br/>82:16 104:20 105:1<br/>106:4</p> <p><b>patience</b> 108:18</p> <p><b>Paul</b> 3:6 51:16</p> <p><b>pay</b> 99:10</p> <p><b>Peabody</b> 2:6 7:12 12:1<br/>16:24 18:23 21:1<br/>34:23 35:25 36:21<br/>37:1 38:24 42:5<br/>48:22 54:14 56:22<br/>59:7 60:19 65:17,24<br/>66:9,11,14 70:6,13<br/>84:8,25 89:24 91:18<br/>94:7 98:7,15,20<br/>99:3,18 102:25</p> <p><b>Pegg</b> 75:8,19</p> <p><b>pending</b> 18:1</p> <p><b>people</b> 9:18 11:17<br/>13:4,6 23:24 43:20<br/>48:6 51:5 52:14,24<br/>54:4 67:9,11,14<br/>68:1,25 81:7,13<br/>82:9,24 83:3,8,17<br/>86:14,16 89:7 90:22<br/>91:12 93:10,15<br/>95:24 102:2,7</p> <p><b>per</b> 75:9,12,23</p> <p><b>percent</b> 20:25 21:2<br/>24:8 33:20 39:18<br/>61:5 78:15 79:3</p> <p><b>percentage</b> 33:19</p> <p><b>perch</b> 10:16</p> <p><b>perfect</b> 24:7 25:15<br/>61:25 62:6</p> <p><b>perfectly</b> 43:22</p> <p><b>perform</b> 37:8,15</p> | <p><b>perhaps</b> 25:13</p> <p><b>period</b> 4:13 6:14,18<br/>7:1 23:16 39:20<br/>48:11 49:20 61:7,10</p> <p><b>periodic</b> 46:1</p> <p><b>periods</b> 90:17</p> <p><b>permanent</b> 41:17 55:3<br/>64:6</p> <p><b>person</b> 49:24 69:3<br/>104:2</p> <p><b>personal</b> 80:2</p> <p><b>personally</b> 17:11<br/>21:24</p> <p><b>persons</b> 49:4 57:2</p> <p><b>perspective</b> 68:8</p> <p><b>perspectives</b> 52:11</p> <p><b>pheromones</b> 16:10<br/>59:2</p> <p><b>phone</b> 3:14 104:1</p> <p><b>photographs</b> 29:20</p> <p><b>photos</b> 22:9</p> <p><b>phrase</b> 22:21</p> <p><b>phrased</b> 17:7</p> <p><b>physical</b> 21:22 23:23<br/>24:16,18,23 31:23<br/>32:3,11 44:16 70:1<br/>77:20</p> <p><b>physically</b> 32:6</p> <p><b>picking</b> 82:7</p> <p><b>picture</b> 31:1</p> <p><b>piece</b> 4:11 5:15 53:22</p> <p><b>pieces</b> 49:12</p> <p><b>Pier</b> 10:25</p> <p><b>pilot</b> 74:22,23</p> <p><b>pipes</b> 74:19</p> <p><b>places</b> 72:19 85:8</p> <p><b>Plaines</b> 11:4 13:22</p> | <p>14:1</p> <p><b>plan</b> 16:5 36:12<br/>37:4,11 41:22 46:5<br/>52:17 82:5 86:1 92:2<br/>101:17</p> <p><b>plankton</b> 10:13</p> <p><b>planning</b> 30:24 35:10</p> <p><b>plans</b> 89:5 90:18<br/>101:12 106:18</p> <p><b>plants</b> 11:15 26:25<br/>29:23 89:1</p> <p><b>plate</b> 41:1 92:17</p> <p><b>play</b> 9:6</p> <p><b>please</b> 6:13 56:20 80:9<br/>84:7 94:2 102:1,3,15</p> <p><b>pleasure</b> 8:1 36:7 98:6</p> <p><b>pledge</b> 45:13</p> <p><b>pledged</b> 45:21</p> <p><b>point</b> 8:22 11:21 24:24<br/>31:15,16 32:3,4 44:2<br/>63:7 77:20 78:12<br/>80:6 85:2,14,17<br/>92:23</p> <p><b>pointed</b> 94:22</p> <p><b>pointing</b> 38:24 85:22</p> <p><b>points</b> 9:9 11:20 13:25<br/>23:20 26:19<br/>31:4,19,25 32:1<br/>70:14 82:7<br/>85:3,6,15,21<br/>105:9,22</p> <p><b>Poland</b> 47:9</p> <p><b>policies</b> 27:19 28:9<br/>42:12 70:22 76:24<br/>94:20</p> <p><b>policy</b> 9:17,18 13:1<br/>29:12 40:23 60:25<br/>95:9</p> <p><b>pollution-related</b><br/>89:12</p> | <p><b>Pompeii</b> 24:11</p> <p><b>pond</b> 86:19</p> <p><b>pool</b> 19:10,12 21:7</p> <p><b>pools</b> 19:11</p> <p><b>poor</b> 55:23</p> <p><b>population</b> 12:3,8<br/>13:16 19:11 52:20<br/>89:17 96:24</p> <p><b>populations</b> 39:24,25</p> <p><b>populous</b> 22:24 52:13</p> <p><b>Portage</b> 84:14</p> <p><b>ports</b> 53:5 68:9</p> <p><b>pose</b> 38:19 40:2</p> <p><b>posed</b> 38:21</p> <p><b>poses</b> 36:17</p> <p><b>positioned</b> 51:1</p> <p><b>possibility</b> 79:9 81:6</p> <p><b>possible</b> 24:9 25:13<br/>35:3 43:3 46:15,20<br/>47:6 60:21,22,23<br/>64:9 73:2 85:13,21</p> <p><b>possibly</b> 14:23<br/>15:14,18,19 88:25</p> <p><b>postmarked</b> 108:2</p> <p><b>potential</b> 34:12,24<br/>35:4,6 37:5 38:21<br/>72:6 73:10 81:3 88:9<br/>105:24</p> <p><b>potentially</b> 29:5 44:20<br/>95:3 106:17</p> <p><b>pounds</b> 83:15<br/>93:18,20</p> <p><b>power</b> 87:19,22 89:25<br/>90:8,9,10,14</p> <p><b>precisely</b> 74:16</p> <p><b>precision</b> 26:15</p> <p><b>preconceived</b> 25:15</p> <p><b>predetermine</b> 44:19</p> |
|---|---|--|---|

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011  
Page 19

|   |   |   |   |
|---|---|---|---|
| <p><b>predict</b> 46:2,24</p> <p><b>preface</b> 87:9</p> <p><b>preliminary</b> 36:11<br/>37:8 43:1 106:6</p> <p><b>preoccupation</b> 68:1</p> <p><b>prepared</b> 69:2 107:20</p> <p><b>presence</b> 33:9</p> <p><b>present</b> 5:14 6:2 17:17<br/>105:7</p> <p><b>presentation</b> 5:5,8<br/>6:17 17:2 58:6 60:3<br/>87:6 90:24 100:6<br/>101:4</p> <p><b>presentations</b><br/>53:22,23</p> <p><b>presented</b> 65:10,16</p> <p><b>president</b> 28:4 97:7<br/>100:22 101:4</p> <p><b>president's</b> 12:20,25<br/>28:3</p> <p><b>presume</b> 47:15 74:5</p> <p><b>pretty</b> 8:18 14:14<br/>28:22 38:15 43:2,22<br/>58:25 74:6 88:12,16<br/>96:22</p> <p><b>prevent</b> 23:16 32:16<br/>35:13,16 36:23<br/>40:14 71:10<br/>78:13,14,21<br/>106:9,19</p> <p><b>preventing</b> 88:1</p> <p><b>prevention</b> 24:6,8<br/>64:15 78:11 79:7,10</p> <p><b>prevents</b> 106:15</p> <p><b>previous</b> 37:1</p> <p><b>primarily</b> 20:13,14<br/>25:18 27:10 71:14<br/>78:15</p> <p><b>primary</b> 25:25 61:7</p> <p><b>private</b> 35:21</p> | <p><b>proactively</b> 9:23</p> <p><b>probability</b> 38:18</p> <p><b>probably</b> 11:18 17:13<br/>33:14 40:19 41:3<br/>51:17 67:17 74:4<br/>87:14 92:11 104:6<br/>106:12</p> <p><b>problem</b> 11:8 28:21<br/>41:18 44:20 46:23<br/>58:11 81:2 88:3,6</p> <p><b>problems</b> 32:22 33:2<br/>89:11</p> <p><b>procedure</b> 50:12,14</p> <p><b>proceedings</b> 1:11<br/>109:7</p> <p><b>process</b> 9:2 24:25 25:9<br/>28:10 30:24 32:21<br/>35:10 41:20 42:9,11<br/>44:2,22 45:4<br/>67:16,18 70:9 71:4<br/>78:20 82:2 95:22<br/>96:7,10 105:15<br/>107:8 108:3</p> <p><b>processing</b> 88:24 89:1</p> <p><b>produce</b> 40:24 43:12<br/>60:8 106:22</p> <p><b>produced</b> 42:15</p> <p><b>producing</b> 95:23</p> <p><b>product</b> 59:19 60:4<br/>88:22</p> <p><b>products</b> 45:21,25<br/>89:2</p> <p><b>professional</b> 20:8<br/>79:25 85:19 95:7</p> <p><b>professionally</b> 80:1</p> <p><b>professionals</b> 22:4,7,9</p> <p><b>program</b> 59:17</p> <p><b>progressing</b> 103:8</p> <p><b>progressive</b> 61:11</p> <p><b>progressively</b> 61:15</p> | <p><b>project</b> 2:9,10 7:16,18<br/>9:1,9 13:6 30:11,18<br/>36:9,14 40:8 44:25<br/>45:2 49:6,11 53:15<br/>67:4 82:16 83:2<br/>97:21</p> <p><b>projected</b> 14:5 16:2<br/>101:2</p> <p><b>projector</b> 50:5</p> <p><b>projects</b> 12:18,23<br/>15:7,8,9 86:15,21<br/>100:23,24<br/>101:8,17,21 102:2</p> <p><b>promises</b> 94:17</p> <p><b>promising</b> 46:20</p> <p><b>prone</b> 84:17</p> <p><b>prongs</b> 31:11</p> <p><b>proof</b> 79:3</p> <p><b>propagating</b> 95:3</p> <p><b>proper</b> 5:16</p> <p><b>properly</b> 9:4 56:11,13</p> <p><b>property</b> 73:2</p> <p><b>proposal</b> 28:4 100:22<br/>101:18</p> <p><b>proposals</b> 12:25 62:15</p> <p><b>prosecute</b> 71:20</p> <p><b>prosecuted</b> 53:14</p> <p><b>prosecuting</b> 54:25<br/>76:10</p> <p><b>protect</b> 41:9</p> <p><b>protected</b> 82:22</p> <p><b>protein</b> 88:7 89:10</p> <p><b>proves</b> 13:12</p> <p><b>provide</b> 6:10,12 17:6<br/>27:13 32:12 37:4<br/>41:16 47:4 71:19,24<br/>103:25</p> <p><b>provided</b> 29:15 108:8</p> | <p><b>provides</b> 71:19 103:24</p> <p><b>provision</b> 63:4</p> <p><b>provisions</b><br/>45:15,16,18 94:19</p> <p><b>public</b> 1:1 3:11,21<br/>4:13 6:9,13,15,23<br/>42:11 46:1<br/>48:9,10,13 49:9 79:8<br/>103:18 109:1,23</p> <p><b>published</b> 45:22 75:20</p> <p><b>pulling</b> 32:25</p> <p><b>Pumping</b> 32:2 34:9</p> <p><b>purple</b> 4:24</p> <p><b>purpose</b> 21:15 33:7<br/>96:3</p> <p><b>purposes</b> 88:12</p> <p><b>pursue</b> 25:14 61:22</p> <p><b>pursuing</b> 100:19</p> <p><b>push</b> 66:6</p> <p><b>puts</b> 90:7</p> <p><b>putting</b> 20:17 38:13<br/>89:18</p> <hr/> <p style="text-align: center;">Q</p> <hr/> <p><b>Quail</b> 2:16 57:6,9,11<br/>65:4 102:16</p> <p><b>Q-u-a-i-l</b> 57:11 102:16</p> <p><b>QUAIL</b> 51:11,14<br/>57:11,18,20<br/>58:16,20 59:9 99:17<br/>102:16 104:8</p> <p><b>quality</b> 2:5 7:11 9:16<br/>45:14 46:11 52:25<br/>71:20 105:25</p> <p><b>quantities</b> 10:13</p> <p><b>quantity</b> 46:11</p> <p><b>quarterly</b> 103:16</p> <p><b>quarter-size</b> 4:7</p> <p><b>question</b> 4:25 17:8</p> |
|---|---|---|---|

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011

Page 20

|  |   |  |  |
|--|---|--|--|
| <p>20:5 49:23,24 50:1<br/>67:13 82:15 85:1<br/>87:21,24,25 88:2<br/>89:24 90:20 98:14<br/>100:10,15 102:18<br/>104:24 107:15</p> <p><b>questions</b> 5:1 6:21 7:5<br/>12:2 17:4 48:20<br/>50:2,19 80:5 87:17<br/>88:18 99:4 102:10<br/>104:14</p> <p><b>Quick</b> 65:3 102:18</p> <p><b>quicker</b> 41:3</p> <p><b>quickly</b> 11:19 27:25<br/>40:12,18 56:16<br/>58:12</p> <p><b>quiet</b> 3:15</p> <p><b>quite</b> 8:5 51:3 106:24</p> <p><b>quote</b> 61:12</p> <p><b>quotes</b> 69:10</p> <hr/> <p>R</p> <hr/> <p><b>race</b> 60:20</p> <p><b>radio</b> 20:19,20</p> <p><b>rain</b> 28:16</p> <p><b>rainfall</b> 34:5 39:10</p> <p><b>raise</b> 20:6 91:3 98:24</p> <p><b>raising</b> 99:23</p> <p><b>ran</b> 76:16</p> <p><b>range</b> 23:13 37:18<br/>105:20</p> <p><b>rapid</b> 14:4 90:6</p> <p><b>rapidly</b> 90:6</p> <p><b>rare</b> 29:15</p> <p><b>Re</b> 1:3</p> <p><b>reach</b> 20:1</p> <p><b>reaching</b> 29:2</p> <p><b>reacted</b> 58:11</p> <p><b>reading</b> 55:24</p> | <p><b>ready</b> 17:25 52:3<br/>57:10 66:21 80:19<br/>86:25 93:17</p> <p><b>real</b> 20:8 82:11 85:1<br/>98:22</p> <p><b>reality</b> 78:21,25</p> <p><b>realize</b> 92:25</p> <p><b>really</b> 16:25 19:15<br/>20:1 26:16 28:22<br/>32:9 35:11 36:8<br/>38:11,25 40:2 41:9<br/>45:23 47:14,19<br/>54:18 56:12,13,14<br/>57:24,25 62:4<br/>64:5,24 75:23 76:17<br/>89:22 91:20,24,25<br/>92:14,20 94:25 97:9<br/>98:9 99:13 106:8</p> <p><b>reason</b> 17:25 18:10<br/>21:19 33:1 61:9<br/>63:20 80:24 85:5<br/>86:17</p> <p><b>reasonable</b> 38:18</p> <p><b>reasonably</b> 23:15</p> <p><b>reasons</b> 19:8 21:24<br/>42:25 50:24 61:7<br/>85:11 96:14</p> <p><b>recap</b> 102:6</p> <p><b>received</b> 21:4 23:21<br/>24:4</p> <p><b>receivers</b> 20:20</p> <p><b>receives</b> 72:12</p> <p><b>recently</b> 36:10</p> <p><b>recognized</b> 58:11</p> <p><b>recommend</b> 13:13<br/>76:20 79:10 96:2</p> <p><b>recommendation</b><br/>25:7,8 96:5</p> <p><b>recommendations</b><br/>25:13,14 46:4,21<br/>62:7 73:20</p> | <p><b>record</b> 109:7</p> <p><b>recorded</b> 109:5</p> <p><b>recording</b> 50:18</p> <p><b>recreation</b> 73:6 78:9</p> <p><b>recreational</b> 33:17<br/>68:4,10 72:3 81:1</p> <p><b>recruiting</b> 21:19</p> <p><b>recycle</b> 108:6,11,15</p> <p><b>red</b> 25:23 26:22 32:2<br/>50:10</p> <p><b>rededicate</b> 56:5</p> <p><b>redo</b> 75:14</p> <p><b>reduce</b> 46:23 64:14<br/>84:2 96:24</p> <p><b>reduced</b> 109:5</p> <p><b>reducing</b> 69:9,10</p> <p><b>reduction</b> 78:12,18<br/>79:12</p> <p><b>reflect</b> 53:16</p> <p><b>refresh</b> 11:18</p> <p><b>regard</b> 43:5 47:20<br/>65:25 66:4 70:15<br/>94:14 100:19 104:25</p> <p><b>Regarding</b> 106:3</p> <p><b>regional</b> 55:8 87:19<br/>96:16</p> <p><b>registered</b> 91:6</p> <p><b>registration</b> 4:1 5:12<br/>49:21 108:10</p> <p><b>regular</b> 103:7</p> <p><b>regulatory</b> 103:6</p> <p><b>Reinvestment</b> 77:14</p> <p><b>reiterate</b> 58:6 66:25</p> <p><b>related</b> 87:25 99:4<br/>109:8</p> <p><b>relation</b> 95:12</p> <p><b>relative</b> 36:16,17 37:8</p> | <p>79:12 88:16 109:10</p> <p><b>relatively</b> 23:16 26:9</p> <p><b>released</b> 101:13</p> <p><b>relevant</b> 71:19</p> <p><b>reliability</b> 90:13</p> <p><b>reliable</b> 90:9,19</p> <p><b>remain</b> 83:25</p> <p><b>remaining</b> 50:8</p> <p><b>remarks</b> 8:10 69:2</p> <p><b>remember</b> 32:9,14<br/>35:11 42:17 77:15<br/>108:1,4</p> <p><b>remind</b> 102:1</p> <p><b>reminder</b> 21:22 23:7<br/>48:9</p> <p><b>report</b> 9:19 18:2 41:24<br/>74:21 104:16 105:8<br/>106:22 107:2</p> <p><b>reports</b> 46:21 63:9<br/>64:12 75:19 76:11</p> <p><b>repository</b> 108:4</p> <p><b>represent</b> 8:25 50:23<br/>66:23</p> <p><b>representatives</b> 13:2</p> <p><b>represented</b> 13:4</p> <p><b>representing</b> 9:19</p> <p><b>reproduction</b> 15:17</p> <p><b>reprogram</b> 63:15</p> <p><b>reprogramming</b> 63:22</p> <p><b>require</b> 44:7 61:1<br/>106:13</p> <p><b>required</b> 18:2 45:14</p> <p><b>requirement</b> 29:11</p> <p><b>requirements</b> 24:3<br/>44:4,6 60:25 78:3<br/>94:23,24</p> <p><b>requires</b> 44:10</p> |
|--|---|--|--|

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011

Page 21

|  |   |   |  |
|--|---|---|--|
| <p><b>reschedule</b> 8:4,7</p> <p><b>rescue</b> 19:23</p> <p><b>research</b> 14:20<br/>15:5,10 18:11,15<br/>21:12 69:16 77:25<br/>96:24</p> <p><b>researchers</b> 15:24</p> <p><b>reset</b> 6:21</p> <p><b>reside</b> 10:14</p> <p><b>resident</b> 87:12</p> <p><b>residents</b> 34:14</p> <p><b>resist</b> 91:11</p> <p><b>Resource</b> 69:24</p> <p><b>resources</b> 40:6 42:2<br/>46:9</p> <p><b>respect</b> 94:25</p> <p><b>responding</b> 14:6</p> <p><b>response</b> 16:5 50:1<br/>64:2 104:15</p> <p><b>responses</b> 17:6</p> <p><b>responsibility</b> 81:2<br/>82:11</p> <p><b>responsible</b> 22:11</p> <p><b>responsive</b> 62:20,21</p> <p><b>rest</b> 27:16</p> <p><b>Restoration</b><br/>12:17,19,24 63:14<br/>89:20 101:8,23</p> <p><b>restroom</b> 3:19</p> <p><b>restrooms</b> 3:20</p> <p><b>resulted</b> 76:11</p> <p><b>results</b> 14:12 38:15<br/>41:25</p> <p><b>retain</b> 89:11</p> <p><b>return</b> 39:18</p> <p><b>reverse</b> 72:24</p> <p><b>review</b> 42:16</p> | <p><b>right-hand</b> 31:1 42:14</p> <p><b>rises</b> 39:12</p> <p><b>risk</b> 15:22 34:1,24,25<br/>36:11,13,16 37:8,15<br/>38:19,21 39:1<br/>41:21,25 43:1 46:23<br/>52:19 64:14,17<br/>69:9,10 78:11,18<br/>79:12 104:20<br/>106:6,7 107:1,7</p> <p><b>river</b> 1:6 2:7 3:11 7:13<br/>9:3 10:23 12:4,7,8<br/>13:22 14:1 20:1,2<br/>21:16 22:10 23:9,18<br/>31:6,18 34:11<br/>37:21,22 38:1,2<br/>39:4,6,8,14,17,25<br/>40:7 43:18<br/>52:6,9,12,18 57:14<br/>68:21 72:25 81:4<br/>82:17,19,20 84:13<br/>85:18 88:4,8,15,24<br/>95:2 104:11</p> <p><b>river-caught</b> 88:24</p> <p><b>rivers</b> 11:2 14:24<br/>16:21 39:3 85:12</p> <p><b>roadmap</b> 4:5</p> <p><b>role</b> 9:6 95:9</p> <p><b>room</b> 4:15,17 6:21<br/>94:20 98:25</p> <p><b>roughly</b> 6:19</p> <p><b>round</b> 9:12 73:23<br/>74:2,13</p> <p><b>Rub</b> 91:19</p> <p><b>rules</b> 20:3 40:22</p> <p><b>run</b> 22:25</p> <p><b>running</b> 17:14</p> <p><b>runs</b> 13:23</p> <hr/> <p><b>S</b></p> <hr/> <p><b>safe</b> 19:20 78:9</p> | <p><b>safely</b> 59:6 78:5</p> <p><b>safety</b> 11:24 18:2<br/>34:3,23,24 78:2</p> <p><b>Saffran</b> 2:10 7:17<br/>13:11 36:2,6<br/>84:10,20 98:22<br/>106:3</p> <p><b>sails</b> 58:8</p> <p><b>sake</b> 20:4</p> <p><b>salmon</b> 10:17 52:9</p> <p><b>salmon-colored</b> 5:3</p> <p><b>sampling</b> 14:8</p> <p><b>Sanitary</b> 31:10<br/>36:16,22</p> <p><b>sat</b> 59:25</p> <p><b>satisfy</b> 45:17</p> <p><b>save</b> 59:12</p> <p><b>saw</b> 13:20 93:17</p> <p><b>scale</b> 62:2 68:12 74:16</p> <p><b>scatter</b> 83:11</p> <p><b>scenario</b> 43:22 81:15</p> <p><b>schedule</b> 14:4,5</p> <p><b>science</b> 38:6 43:15,24<br/>44:24,25 45:1 46:16<br/>53:15 59:7</p> <p><b>science-based</b> 47:5<br/>64:10 73:11</p> <p><b>scientist</b> 75:8</p> <p><b>scientists</b> 45:23 74:9</p> <p><b>scope</b> 33:6,7 62:2<br/>103:10</p> <p><b>scoping</b> 1:1 3:11<br/>6:13,23 108:3</p> <p><b>screens</b> 63:11</p> <p><b>screw</b> 60:12</p> <p><b>sea</b> 100:16</p> <p><b>seasons</b> 84:19</p> <p><b>second</b> 3:3,9 6:5 20:2</p> | <p>24:4 27:24 63:13<br/>70:19 72:1 90:7</p> <p><b>secondary</b> 78:17<br/>100:8</p> <p><b>secondly</b> 104:18<br/>107:10</p> <p><b>seconds</b> 7:20 50:9</p> <p><b>Secretary</b> 61:12 62:25</p> <p><b>section</b> 4:14 62:23</p> <p><b>Seeing</b> 100:5</p> <p><b>seem</b> 56:2</p> <p><b>seemed</b> 75:1</p> <p><b>seen</b> 65:5</p> <p><b>seismic</b> 15:13 83:6</p> <p><b>semi</b> 84:1</p> <p><b>seminar</b> 57:23</p> <p><b>Senator</b> 92:1</p> <p><b>send</b> 11:10 107:25</p> <p><b>senior</b> 59:17</p> <p><b>sense</b> 9:11<br/>53:12,13,16,17<br/>54:19,24,25 67:2<br/>76:15</p> <p><b>sent</b> 28:5</p> <p><b>separate</b> 82:10</p> <p><b>separation</b><br/>23:21,23,25 35:2<br/>105:3,10,12</p> <p><b>separations</b> 70:2</p> <p><b>September</b> 41:6</p> <p><b>series</b> 18:14 20:12,20</p> <p><b>serious</b> 34:2</p> <p><b>seriously</b> 89:17 97:13</p> <p><b>serve</b> 23:5 80:25</p> <p><b>service</b> 12:22 22:13<br/>28:25 30:4 37:17<br/>40:7 42:21</p> <p><b>session</b> 3:3,5,9 17:6</p> |
|--|---|---|--|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011



Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011  
Page 22

|  |  |   |   |
|--|--|---|---|
| <p>37:1</p> <p><b>sessions</b> 6:16</p> <p><b>seven-point</b> 63:18</p> <p><b>several</b> 28:17 70:14<br/>71:10 72:8,14,16<br/>87:19 97:6</p> <p><b>severe</b> 73:2</p> <p><b>shape</b> 33:6</p> <p><b>share</b> 10:4 36:10<br/>81:13 87:11</p> <p><b>sheet</b> 4:4,7,11,24,25<br/>5:3,6,15,19 86:25</p> <p><b>sheets</b> 4:18 57:4</p> <p><b>She'll</b> 50:18</p> <p><b>Sherlock</b> 47:17</p> <p><b>she's</b> 20:8,9,11 50:17</p> <p><b>ship</b> 13:24 14:1 31:10<br/>36:16,22</p> <p><b>shock</b> 19:24 97:4</p> <p><b>shocked</b> 14:15</p> <p><b>shores</b> 31:19</p> <p><b>short</b> 23:16 38:14<br/>64:22</p> <p><b>shorter</b> 51:4</p> <p><b>shown</b> 37:7 58:10</p> <p><b>signed</b> 97:7</p> <p><b>significance</b> 36:9</p> <p><b>significant</b> 6:6 8:18<br/>33:19 34:5 36:21<br/>38:21 39:1,10 40:2<br/>41:8 59:21 104:19<br/>107:6</p> <p><b>significantly</b> 35:4<br/>37:24</p> <p><b>signify</b> 99:23</p> <p><b>signing</b> 48:17</p> <p><b>similar</b> 7:3 103:23</p> <p><b>similarly</b> 33:3</p> | <p><b>simple</b> 44:5 62:3</p> <p><b>simplify</b> 20:13</p> <p><b>simultaneously</b> 74:12<br/>78:2</p> <p><b>single</b> 31:9,11 56:1</p> <p><b>sink</b> 84:3</p> <p><b>sinked</b> 86:7</p> <p><b>sir</b> 30:15 35:24 36:6<br/>42:4 48:21,22 54:13<br/>56:25 65:1<br/>66:10,11,21 70:6,13<br/>71:23 78:11 79:15<br/>80:4,6 98:12<br/>99:2,18,19</p> <p><b>sisters</b> 22:2</p> <p><b>sit</b> 92:13 108:9</p> <p><b>sites</b> 38:23 70:1 90:2</p> <p><b>sitting</b> 50:17</p> <p><b>situation</b> 95:8</p> <p><b>six</b> 9:25 21:5 101:12<br/>102:7</p> <p><b>six-eight</b> 98:25 99:2</p> <p><b>size</b> 20:16 39:11 41:10<br/>76:6</p> <p><b>slide</b> 14:13 22:9 26:19<br/>29:17,19 30:21,25</p> <p><b>slides</b> 5:20,22 50:3<br/>102:25</p> <p><b>sluice</b> 63:11</p> <p><b>small</b> 10:17 19:3,15<br/>26:11 29:23 76:3<br/>84:11</p> <p><b>smaller</b> 62:2,3</p> <p><b>Smith-Root</b> 90:12</p> <p><b>snow</b> 8:6</p> <p><b>snowstorm</b> 47:25 48:4</p> <p><b>social</b> 46:9 48:13<br/>53:25 105:20</p> | <p><b>soldiers</b> 21:20</p> <p><b>solicit</b> 6:5</p> <p><b>solution</b> 14:24 16:19<br/>24:17 40:12 41:12<br/>55:3 106:14 107:12</p> <p><b>solutions</b> 24:8,19<br/>25:1,3 29:6 62:10<br/>64:6 78:23</p> <p><b>solved</b> 54:10</p> <p><b>somebody</b> 45:10</p> <p><b>somehow</b> 84:2,3</p> <p><b>Someone</b> 103:24</p> <p><b>somewhere</b> 30:2 59:20</p> <p><b>sonic</b> 15:13,20</p> <p><b>sons</b> 22:1</p> <p><b>sorry</b> 34:22 58:15 65:8<br/>91:11,21</p> <p><b>sort</b> 32:7 40:15 74:20<br/>95:16 103:6</p> <p><b>sounds</b> 51:18</p> <p><b>source</b> 49:3 90:8 97:24</p> <p><b>sources</b> 16:4</p> <p><b>south</b> 1:14 10:20 11:3<br/>31:3 97:22</p> <p><b>southeast</b> 39:6 52:6</p> <p><b>southwest</b> 39:7</p> <p><b>spaces</b> 3:21</p> <p><b>spawned</b> 83:23</p> <p><b>spawning</b> 15:14,15<br/>83:16</p> <p><b>speak</b> 12:1 41:14<br/>80:21 87:8 104:1,23</p> <p><b>SPEAKER</b> 98:13,16</p> <p><b>speakers</b> 2:13</p> <p><b>speaking</b> 50:4,11<br/>66:25</p> <p><b>species</b> 10:8,15 12:9<br/>16:20 23:17 26:5</p> | <p>30:1,6 34:19<br/>35:12,17 36:17,24<br/>37:10,18,20,22,25<br/>38:2,20<br/>42:17,19,22,23<br/>44:11,12,14,17<br/>57:25 64:19<br/>69:16,22 73:21,22<br/>74:12 75:12 85:9<br/>88:11 95:3 106:19</p> <p><b>specific</b> 15:11 27:19<br/>42:17,23 55:9 65:20<br/>83:24 104:19<br/>105:4,12</p> <p><b>specifically</b> 85:20<br/>103:8,14 105:2</p> <p><b>specifics</b> 66:2,3</p> <p><b>specify</b> 33:2</p> <p><b>specifying</b> 32:22</p> <p><b>speed</b> 55:5 58:19<br/>60:15,22 64:4 68:17</p> <p><b>speeds</b> 60:21</p> <p><b>spell</b> 50:22 51:17<br/>66:17</p> <p><b>spelling</b> 50:21</p> <p><b>spend</b> 30:20 54:16<br/>103:2 105:22</p> <p><b>spent</b> 59:15 70:4<br/>105:16</p> <p><b>spoke</b> 35:18</p> <p><b>spouse</b> 96:19</p> <p><b>spread</b> 23:16 32:16<br/>35:13,16 72:20</p> <p><b>spring</b> 84:19</p> <p><b>square</b> 25:23</p> <p><b>St</b> 3:5 24:11 39:5,7<br/>51:16 52:15,18<br/>82:18,20 84:9,12<br/>85:17</p> <p><b>Stabenow</b> 92:5</p> |
|--|--|---|---|

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011  
Page 23

|  |  |   |  |
|--|--|---|--|
| <b>staff</b> 57:15<br><b>stage</b> 99:11<br><b>stakeholder</b> 8:23<br><b>stakeholders</b> 35:20<br>40:5<br><b>stand</b> 16:15 79:23<br><b>standard</b> 90:14,15<br><b>standards</b> 45:14<br><b>standpoint</b> 88:7<br><b>stands</b> 77:15<br><b>start</b> 4:16 41:23 44:24<br>45:3 51:7,25 57:5<br>59:14 91:7 100:13<br>101:6 102:14<br><b>started</b> 3:13 36:14,19<br>51:6 59:23 61:20<br>70:8 75:18 82:6<br>101:12<br><b>starting</b> 6:3,19<br><b>starving</b> 10:14<br><b>state</b> 7:1 8:21<br>13:4,5,17 24:5 25:16<br>35:20 38:5<br>52:13,16,19 53:3<br>55:17 57:13 62:1<br>67:21 86:14,15<br>88:21 89:20 103:5<br>106:18 109:24<br><b>statement</b> 5:14 28:7<br>49:22 50:5,12 100:3<br><b>statements</b> 107:21,23<br><b>states</b> 13:3 19:21 27:5<br>38:7 85:12 87:20<br>93:21,22 97:9,22,23<br>106:16,25<br><b>Station</b> 32:2 34:9<br><b>statistical</b> 50:24<br><b>stay</b> 17:16 49:15 56:9<br>98:9 101:17<br><b>steam</b> 89:9 | <b>steelhead</b> 10:17 52:10<br><b>Steelheaders</b> 52:8<br><b>Steering</b> 103:3,4,15<br><b>stench</b> 79:24<br><b>stenographer</b> 50:17<br><b>step</b> 89:15 92:17<br><b>stepped</b> 41:1<br><b>steps</b> 42:11<br><b>steroids</b> 41:8<br><b>stimulus</b> 77:16<br><b>stocking</b> 86:19<br><b>stop</b> 8:17,19 10:9<br>16:20 32:17,18<br>68:15 69:7 70:3<br>73:15,16 74:18<br>78:15 81:22 85:8<br>94:4 97:24,25<br><b>stopped</b> 4:1 93:25<br><b>stops</b> 77:22<br><b>storm</b> 39:19<br><b>stormwater</b> 11:14<br>34:7<br><b>story</b> 54:9<br><b>strange</b> 29:23<br><b>strategic</b> 31:13<br><b>strategy</b> 10:2 12:14<br>14:21 89:19 100:25<br>103:1<br><b>stream</b> 11:1 32:15<br>33:19<br><b>streams</b> 10:22 31:9<br>95:2<br><b>Street</b> 1:14<br><b>stress</b> 90:8<br><b>stretches</b> 15:3 39:24<br><b>strong</b> 9:15 81:6 96:1<br><b>structure</b> 32:3,7,11<br><b>structures</b> 31:21,23 | 34:9,10 68:15<br><b>studies</b> 61:2,3,7,9 62:1<br><b>study's</b> 49:5<br><b>stuff</b> 24:2 27:15 29:20<br>46:12 56:17 58:1<br>59:10 65:18 69:4<br>97:3<br><b>stun</b> 19:6<br><b>stunned</b> 19:2 76:4<br><b>stuns</b> 18:17 77:23<br><b>submit</b> 5:14<br><b>subscribe</b> 49:5<br><b>sufficient</b> 67:2<br><b>sufficiently</b> 35:1<br><b>suggest</b> 55:22 68:18<br>71:2<br><b>suggested</b> 69:15 71:11<br><b>suggestions</b> 47:18<br><b>suite</b> 25:3<br><b>summer</b> 81:8<br><b>sun</b> 93:13<br><b>sunset</b> 63:3<br><b>superiors</b> 60:7<br><b>supplier</b> 59:17 60:2<br><b>suppliers</b> 60:5<br><b>supplies</b> 15:25<br><b>supply</b> 11:8 33:17<br><b>support</b> 22:14 42:20<br>47:20<br><b>supported</b> 22:4<br><b>supposed</b> 8:5 45:11<br>65:13 94:9<br><b>suppressing</b> 89:16<br><b>suppressions</b> 59:3<br><b>sure</b> 3:25 4:13 5:17<br>6:1,24 12:2 18:24<br>20:3 41:4 51:24 | 53:2,25 56:9<br>61:17,18 63:5 72:16<br>76:8 78:20 86:18<br>87:3 90:16,19 95:19<br>98:2,15 104:7,23<br><b>surfing</b> 54:16<br><b>surgery</b> 20:15<br><b>surprises</b> 43:23<br><b>survey</b> 29:1 46:9,10<br><b>surveyor</b> 40:8<br><b>surveys</b> 46:8<br><b>susceptible</b> 24:23 26:4<br><b>Sutley</b> 9:19<br><b>swimming</b> 88:8<br><b>switch</b> 51:9<br><b>synopsis</b> 4:9<br><b>system</b> 11:7,16 25:24<br>28:13 30:12,22<br>31:8,15,21 33:14,21<br>34:1,21 68:3,11<br>72:4,8 73:22 74:3,14<br>75:17 81:8,14 86:6<br><hr/> T<br><hr/> <b>T.J</b> 32:5<br><b>table</b> 7:15,17 73:9<br>107:22 108:9,10<br><b>tackle</b> 46:24<br><b>tagged</b> 20:21 54:2<br><b>tags</b> 20:19<br><b>taking</b> 15:12 17:22<br>40:25 69:3 70:25<br>74:18 86:17 90:14<br>96:17 97:13<br><b>talented</b> 28:22<br><b>talents</b> 81:14<br><b>talk</b> 12:13 25:17 28:18<br>30:21 32:15 35:2<br>36:2 51:22 52:23<br>63:22 74:4 84:6,8 |
|--|--|---|--|

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011

Page 24

|   |  |   |   |
|---|--|---|---|
| <p>94:9 97:1 99:6<br/>103:10,12</p> <p><b>talked</b> 24:20 27:3<br/>28:13 29:5,18 42:8<br/>43:1 44:14 45:20<br/>46:13 47:2 48:15<br/>55:11 59:1 63:16<br/>73:13,14 76:12 77:7<br/>78:11 81:3,4,5<br/>82:16,20 87:11<br/>94:10 96:25</p> <p><b>talking</b> 9:4,24 12:1<br/>16:15 26:6,7<br/>65:17,19,22 68:13<br/>70:3 83:8,14,20<br/>99:10 103:9</p> <p><b>talks</b> 5:3</p> <p><b>Tallest</b> 98:25</p> <p><b>task</b> 23:19 24:5 26:6<br/>66:9</p> <p><b>taxpayer's</b> 62:12</p> <p><b>Tazzia</b> 2:19 80:18<br/>86:25 87:4</p> <p><b>T-a-z-z-i-a</b> 87:4</p> <p><b>TAZZIA</b> 87:3</p> <p><b>team</b> 7:6 13:6 28:23</p> <p><b>teams</b> 32:24</p> <p><b>teasing</b> 8:15</p> <p><b>tech</b> 49:16</p> <p><b>technical</b> 105:8</p> <p><b>technologies</b> 23:14<br/>25:4 41:15 43:25<br/>46:18,19 47:5 61:19<br/>64:11 79:11,14<br/>106:9 107:11</p> <p><b>technology</b> 15:13<br/>74:14 76:23 79:3</p> <p><b>teleconference</b> 103:22</p> <p><b>teleconferencing</b><br/>103:22</p> | <p><b>telemetry</b> 20:14 75:2</p> <p><b>temperatures</b> 83:16</p> <p><b>temporary</b> 107:9</p> <p><b>tend</b> 19:13,15 29:22<br/>61:7,9,22 78:16</p> <p><b>tends</b> 72:11,19 83:11</p> <p><b>ten-year</b> 39:20</p> <p><b>term</b> 16:20 37:3 39:1</p> <p><b>terms</b> 53:1</p> <p><b>terrain</b> 26:9 72:17</p> <p><b>terrible</b> 98:18</p> <p><b>test</b> 51:20 75:2,4</p> <p><b>tested</b> 11:24</p> <p><b>testify</b> 94:11,13 95:5</p> <p><b>testimony</b> 5:15 17:13<br/>102:8 109:4</p> <p><b>testing</b> 90:18 99:7</p> <p><b>tests</b> 18:14 20:12<br/>21:11</p> <p><b>thank</b> 7:24 8:14<br/>30:15,17<br/>35:23,24,25 36:6<br/>42:4,5 48:21,22,24<br/>52:4 53:7,8,10<br/>54:12,13,17 56:25<br/>57:1,19 60:17,18<br/>65:1 66:11 70:11,12<br/>80:15 84:4,5,24<br/>86:23 87:5 88:19<br/>90:21 94:6 98:4<br/>99:16,18,19 100:20<br/>102:5 104:9<br/>107:13,23 108:18</p> <p><b>thankful</b> 3:7</p> <p><b>thanks</b> 8:13 16:23<br/>42:20 48:19 51:14<br/>66:12 80:11 85:22<br/>86:22 89:23,24<br/>90:20 91:18 102:4<br/>104:8,13</p> <p><b>that's</b> 4:11 6:3 8:13</p> | <p>10:4,10 14:18,21<br/>15:6 16:13,17 17:23<br/>20:12 21:10 22:20<br/>23:18,23 24:17<br/>25:16,23,24,25 26:1<br/>27:2 28:1,8,23,24,25<br/>29:2,11 31:10 32:2<br/>34:24 37:7 39:16<br/>41:2,12 46:12<br/>47:8,10,12,14 55:4<br/>58:25 59:4,9,11<br/>60:16 61:6 62:8<br/>64:20 68:12<br/>69:10,18 73:8<br/>74:7,23,24 76:18<br/>78:24 81:10 82:21<br/>83:15 85:3,4,11,15<br/>88:7 90:10 93:8<br/>94:1,10 95:1,6,8<br/>96:11,21 98:2 102:1<br/>104:5 105:4</p> <p><b>themselves</b> 25:4</p> <p><b>thereafter</b> 109:5</p> <p><b>Therefore</b> 26:4,13</p> <p><b>there's</b> 12:19 14:3<br/>15:22 18:18,23 19:8<br/>20:5 26:25 27:18<br/>28:7,16 30:1,2 37:24<br/>41:8 44:4 54:22<br/>55:25 56:18 59:13<br/>60:16 70:21 71:23<br/>77:18 79:9 82:10,11<br/>85:20 88:10,13<br/>90:2,6 92:15 95:22<br/>96:18,23 106:11<br/>107:5</p> <p><b>they'll</b> 42:25</p> <p><b>they're</b> 11:3 13:4,17<br/>14:7 16:4 19:3,14<br/>22:5 23:6 27:12<br/>42:22 44:6 60:5 61:4<br/>64:19 70:6,7<br/>71:21,22 72:10<br/>78:24 88:25 89:3,14<br/>90:19 92:11,12 94:8</p> | <p>95:19 97:4,22 99:14<br/>101:22 105:5</p> <p><b>they've</b> 18:3 68:16<br/>70:4,8 83:23</p> <p><b>third</b> 7:15 11:23 17:24<br/>59:4 67:17 87:7</p> <p><b>thirds</b> 12:17 100:24</p> <p><b>thoughts</b> 33:5</p> <p><b>thousand</b> 21:5</p> <p><b>thousands</b> 21:6</p> <p><b>threatening</b> 95:3</p> <p><b>thrilled</b> 43:18</p> <p><b>throughout</b> 6:10<br/>34:13 88:3</p> <p><b>tightly</b> 95:11</p> <p><b>tightness</b> 96:18</p> <p><b>timeframe</b> 38:14<br/>45:15</p> <p><b>timeline</b><br/>43:14,17,19,21<br/>45:3,10,16 53:15<br/>94:15 95:22 105:5</p> <p><b>timelines</b> 94:23</p> <p><b>timer</b> 50:5</p> <p><b>timetable</b> 67:7</p> <p><b>today</b> 4:20 22:8 23:3<br/>28:23 29:3 33:1,9<br/>47:3 48:8 54:8,16<br/>65:10 75:5 102:7<br/>103:1,11</p> <p><b>today's</b> 21:15 102:6</p> <p><b>Tom</b> 2:16 57:6,11<br/>102:16</p> <p><b>tomorrow</b> 17:13</p> <p><b>tonight</b> 7:7 16:15 17:9<br/>100:7 102:7</p> <p><b>tonight's</b> 4:5</p> <p><b>tons</b> 23:3 55:25 68:2,5</p> <p><b>top</b> 60:21,22 68:4</p> |
|---|--|---|---|

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011  
Page 25

|  |  |   |   |
|--|--|---|---|
| 80:14<br><b>Toronto</b> 97:16<br><b>total</b> 14:17 24:8 28:23<br>51:4<br><b>totally</b> 3:17 53:19<br><b>tough</b> 57:7<br><b>tour</b> 8:16<br><b>toward</b> 31:16 32:21<br>34:11 72:25<br><b>towards</b> 10:24<br><b>town</b> 8:5,8 39:9<br><b>towns</b> 88:24<br><b>toxins</b> 15:10<br><b>track</b> 9:11 16:8<br><b>tracking</b> 20:25 21:2<br><b>trade</b> 83:7<br><b>traffic</b> 68:10<br><b>transfer</b> 35:13<br>38:20,22 85:25<br>106:10<br><b>transit</b> 85:6<br><b>transition</b> 85:14<br><b>transmission</b> 81:6<br>88:1 90:15<br><b>transmit</b> 90:17<br><b>transport</b> 97:2<br><b>transporting</b> 94:9<br><b>traverse</b> 78:5<br><b>treasured</b> 87:13<br><b>treated</b> 11:14 33:22<br><b>treatment</b> 11:15<br><b>tree</b> 83:5<br><b>tremendous</b> 14:25<br>37:16<br><b>tributaries</b> 15:15<br><b>tried</b> 25:9 | <b>trolling</b> 52:9<br><b>Trout</b> 57:12 58:1<br>102:17<br><b>truck</b> 93:25 97:18<br><b>truckload</b> 97:16 98:3<br><b>truckloads</b> 97:5<br><b>trucks</b> 94:10 97:2<br><b>true</b> 25:9 109:7<br><b>truly</b> 28:22 44:25<br><b>trust</b> 62:11<br><b>truth</b> 43:21 78:19<br><b>try</b> 4:25 16:11 17:2<br>48:3 57:8 61:25 70:9<br>77:8 88:14 94:16<br>96:22 104:2<br><b>trying</b> 14:10 23:2<br>25:15 55:4 62:5<br>64:23,25 83:19,23<br>89:7 92:2 96:10<br>97:13 105:5<br><b>Tuesday</b> 1:9 108:16<br><b>turn</b> 3:15 5:16 8:10<br>18:4,7 19:7 35:24<br>44:21 48:18 50:6,10<br>78:23 90:3 95:13,15<br>96:20 99:9 104:25<br><b>turned</b> 51:20 77:10<br><b>turns</b> 63:25 74:1<br>75:22,24 76:16 79:4<br><b>twelfth</b> 3:9 8:17<br><b>Twitter</b> 48:16 49:17<br><b>two-inch</b> 41:10<br><b>type</b> 3:14 24:25 34:19<br>40:25 102:20 103:24<br>105:6,7<br><b>types</b> 14:10<br><b>typewriting</b> 109:6<br><b>typically</b> 39:11<br>61:3,16 | <b>typography</b> 26:11<br>72:16<br><hr/> U<br><hr/> <b>U.S</b> 1:12 2:7 3:6 7:13<br>15:23 27:6 29:1 40:5<br>41:3 67:19<br><b>ultimately</b> 107:4<br><b>uncles</b> 22:2<br><b>uncomfortable</b> 15:16<br><b>uncontrolled</b> 31:24<br>32:10<br><b>uncover</b> 43:16 61:14<br>96:4<br><b>understand</b> 20:10<br>22:20 26:9,13 44:8<br>54:19 61:17<br>64:10,24,25 72:17<br>79:1 81:16,18 85:19<br><b>understanding</b> 29:10<br>46:17 84:10,15<br>94:18 95:8<br><b>undertaking</b> 27:13<br><b>underwater</b> 15:20<br><b>unexpected</b> 48:23<br><b>unfortunate</b> 81:22<br><b>unfortunately</b> 17:11<br><b>unfunded</b> 61:6<br><b>UNIDENTIFIED</b><br>98:13,16<br><b>uniform</b> 21:20 70:24<br>99:11<br><b>uninteresting</b> 42:10<br><b>unique</b> 11:15 31:8,20<br>39:2<br><b>United</b> 19:21 27:5<br>85:12 93:21,22<br><b>unknowns</b> 96:21<br><b>unless</b> 20:1<br><b>Unlimited</b> 57:13 58:1 | 102:17<br><b>unobvious</b> 44:21<br><b>unprecedented</b> 8:20<br><b>unpredictable</b> 43:16<br><b>update</b> 8:11 50:8<br>103:24<br><b>updates</b> 45:21 49:7<br><b>Upper</b> 25:19,21<br><b>upset</b> 79:17<br><b>urgency</b> 53:12,16<br>54:20,24,25 67:3<br><b>urgent</b> 43:7<br>55:1,2,7,21 56:9<br>63:23 96:11<br><b>users</b> 71:22 81:1<br><b>USGS</b> 12:22 37:17<br>38:6 40:5 44:15 73:9<br>101:20<br><b>utilizing</b> 34:20<br><hr/> V<br><hr/> <b>validated</b> 21:11<br><b>validation</b> 18:12 20:12<br>99:7<br><b>Valley</b> 25:20<br><b>value</b> 72:1<br><b>variety</b> 15:23 42:24<br>89:2<br><b>various</b> 29:10 44:9<br>79:11 85:8<br><b>vast</b> 10:13 11:13<br><b>verbal</b> 29:1<br><b>verbs</b> 56:2<br><b>versa</b> 37:21<br><b>version</b> 49:13 75:7<br><b>versus</b> 78:11<br><b>vessels</b> 78:10<br><b>via</b> 104:1 |
|--|--|---|---|

Capital Reporting Company  
GLMRIS Public Meeting 03-08-2011

Page 26

|                           |                            |                               |                              |
|---------------------------|----------------------------|-------------------------------|------------------------------|
| <b>viability</b> 84:2     | 26:10,12,16,22             | <b>welcomed</b> 48:23         | 20:21,22,24 21:6             |
| <b>viable</b> 83:25       | 29:21 33:17 34:10          | <b>we'll</b> 4:5 9:4,23 12:1  | 22:9 23:2 26:2 27:22         |
| <b>vice</b> 37:21         | 38:6 39:12,13,21           | 17:2 18:4,7 25:7              | 29:18 31:14 32:23            |
| <b>Vicksburg</b> 18:16    | 46:11 52:24 57:25          | 27:13,16 30:4 43:11           | 34:16 36:10 41:21            |
| <b>video</b> 56:23 103:22 | 62:23 72:18,24             | 45:11,18                      | 42:8,15 45:20,21             |
| <b>videos</b> 54:1        | 77:23 81:8,13              | 46:18,20,24,25                | 46:4 51:1,4 65:25            |
| <b>virtually</b> 22:20    | 83:12,18 84:1 86:4         | 47:19 48:9,12 50:3            | 68:11 73:15 75:14            |
| <b>visible</b> 65:13      | <b>waters</b> 15:4 31:5    | 51:19,20 56:23 57:4           | 76:2,9,10 77:8,12,13         |
| <b>visual</b> 50:3        | 52:17,19                   | 62:14 66:1 85:21              | 86:14 91:21 92:5,7           |
| <b>volt</b> 75:9          | <b>watershed</b> 25:20,21  | 98:1 105:24 106:24            | 94:10 97:23,24               |
| <b>volts</b> 75:11,23     | 26:7 30:3                  | 108:10                        | 102:6,9 103:2                |
| <b>volunteered</b> 23:4   | 52:6,7,12,13,22            | <b>we're</b> 4:12 6:3 8:14,24 | 105:19                       |
| <b>volunteering</b> 23:5  | 57:14 67:10,12             | 9:7,9,11 10:1,10,11           | <b>whatever</b> 25:7 56:13   |
| <b>volunteers</b> 23:3,6  | 69:21 104:12               | 15:8,16 16:14 17:2            | 68:23 86:18,19 90:8          |
|                           | <b>watersheds</b> 23:23    | 18:2,24 20:17,24              | 96:1,20                      |
|                           | <b>waterway</b> 10:4,21    | 21:1,12 22:17                 | <b>Whenever</b> 52:3         |
|                           | 11:5,13 25:24              | 23:2,8,13,25 24:1             | <b>Where's</b> 66:6          |
|                           | 28:13,15 30:12,22          | 25:17 26:6,7 27:11            | <b>wherever</b> 10:13 97:22  |
|                           | 33:14,21                   | 28:6,12,22 29:2,25            | <b>whether</b> 17:7,17 21:23 |
|                           | 34:1,6,17,22 35:5          | 33:1,10,11,12 35:11           | 22:5 46:25 62:15             |
|                           | 68:2,11 72:4,8 73:22       | 41:14,20,22 43:5,23           | 64:18 71:4                   |
|                           | 74:3,11,17 78:7            | 44:1                          | 78:1,5,7,20 79:13            |
|                           | <b>waterways</b> 24:2      | 45:9,10,11,14,16              | 95:5 96:19,23                |
|                           | 31:22,24                   | 46:3,6,7,8,9                  | <b>white</b> 2:4 4:11 7:10   |
|                           | 32:1,10,12,14,17           | 47:11,13,23                   | 9:18 10:16 42:21             |
|                           | 81:7 104:17                | 48:15,16 54:24                | 89:8                         |
|                           | <b>waves</b> 15:20         | 55:23,25 56:4,20              | <b>whole</b> 11:16 14:25     |
|                           | <b>Wayne</b> 13:10,18      | 60:21 62:12 63:24             | 22:4 44:11 46:11             |
|                           | 39:2,7,9 84:13             | 64:4,15 68:13                 | 47:17 68:10 69:16            |
|                           | <b>ways</b> 16:8 22:22     | 73:9,18 75:4 76:5             | 70:21 77:19 94:25            |
|                           | 35:1,7 44:13               | 78:2 79:10,11                 | 96:3 106:13                  |
|                           | 48:12,13 94:16             | 80:7,8,10,16 88:12            | <b>whom</b> 109:2            |
|                           | 95:22                      | 89:25 90:11,13,18             | <b>who's</b> 9:19 86:7 87:11 |
|                           | <b>wear</b> 21:19,20 70:24 | 92:7 93:19 95:15              | 92:7                         |
|                           | <b>Web</b> 65:9            | 96:10,14,15 97:1              | <b>whose</b> 109:4           |
|                           | <b>Website</b> 48:14       | 98:3 101:12 103:12            | <b>wild</b> 86:12            |
|                           | 49:3,6,8,11 53:21          | 106:4,6,15                    | <b>Wildlife</b> 12:22 28:25  |
|                           | 54:9,17 56:6 65:6,12       | <b>west</b> 39:8 68:9         | 30:4 37:17 42:21             |
|                           | 108:4                      | <b>Wethington</b> 2:9 7:15    | 66:23 97:11 98:1             |
|                           | <b>Websites</b> 80:8       | 30:11,15,18 65:3,21           | 101:20                       |
|                           | <b>week</b> 11:22 91:25    | 66:4,8,12 98:19,22            | <b>willing</b> 83:3          |
|                           | <b>weeks</b> 8:16 77:11    | 102:23 104:23                 | <b>Wilmette</b> 32:2 34:9    |
|                           |                            | <b>Wetlands</b> 40:7          |                              |
|                           |                            | <b>we've</b> 7:7 8:15         |                              |
|                           |                            | 10:1,7,9 18:13,14             |                              |

(866) 448 - DEPO

www.CapitalReportingCompany.com

© 2011

|   |   |  |  |
|---|---|--|--|
| <p><b>win</b> 22:18,21 80:1</p> <p><b>wind</b> 58:8</p> <p><b>Winning</b> 22:22</p> <p><b>Wisconsin</b> 93:11 98:4</p> <p><b>wish</b> 17:16</p> <p><b>witness</b> 109:4</p> <p><b>Wolak</b> 2:18 66:20<br/>80:17,20,21<br/>84:17,24 86:11<br/>100:10,14</p> <p><b>wonderful</b> 24:14 54:7<br/>58:7 59:4 60:3 91:13<br/>93:17</p> <p><b>wondering</b> 88:4,13</p> <p><b>work</b> 3:5 16:18 23:7<br/>30:4 36:8,10 38:15<br/>51:15 52:7,8 53:11<br/>56:14 57:15 58:10<br/>59:16 61:1 67:20<br/>75:1 82:12 85:7,18<br/>86:14 87:6 88:14<br/>89:6,21 96:2 97:23<br/>106:16</p> <p><b>worked</b> 58:3 59:18,19</p> <p><b>workers</b> 53:5</p> <p><b>working</b> 8:22 9:22<br/>10:1 13:19 14:7<br/>16:17 41:14 47:9<br/>51:23 62:4 68:14<br/>71:11 90:12 98:1<br/>102:21 106:25<br/>108:19</p> <p><b>works</b> 21:14 59:8<br/>62:25 96:8</p> <p><b>world</b> 12:9 52:16<br/>58:25 59:24 78:22</p> <p><b>worried</b> 93:19</p> <p><b>write</b> 4:16 5:21 67:8<br/>107:24</p> <p><b>written</b> 28:24</p> <p><b>wrong</b> 55:1 60:24 83:5</p> | <hr/> <p><b>Y</b></p> <hr/> <p><b>yell</b> 56:20</p> <p><b>yellow</b> 50:7 51:2,9<br/>57:4 58:17 86:24</p> <p><b>yet</b> 37:20,23 38:1,3<br/>70:6,7 99:22<br/>101:12,15</p> <p><b>you'll</b> 5:5 7:19 10:22<br/>11:4 22:19 30:25<br/>47:21 51:8</p> <p><b>young</b> 98:16</p> <p><b>young-of-the-year</b><br/>19:4,6,9,13</p> <p><b>yourself</b> 3:18,22</p> <p><b>YouTube</b> 54:1 56:23</p> <p><b>you've</b> 21:4 39:3,5<br/>51:22 53:2 54:7 58:9<br/>59:1,4,5,10 61:18<br/>65:5 68:21 69:21<br/>71:11 81:4,5 89:8</p> <p><b>Ypsilanti</b> 1:8,13,14<br/>47:23</p> <hr/> <p><b>Z</b></p> <hr/> <p><b>zip</b> 50:24 52:1 57:17<br/>87:1,4</p> <p><b>zone</b> 21:21</p> |  |  |
|---|---|--|--|