Page 1

BEFORE THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

## PUBLIC HEARING

REGARDING SECTION 401 WATER QUALITY CERTIFICATION DYNEGY MIDWEST GENERATION, LLC Re: Middle Fork Vermilion River Stabilization

Transcript of Proceedings taken before HEARING OFFICER DEAN STUDER, by Becky L. Jessup, CSR, a notary public within and for the County of Vermilion and State of Illinois, at the Danville Area Community College, 2000 East Main Street, Danville, Illinois, on the 26th day of March, 2019, at 6:00 p.m.



```
Page 2
 1
    APPEARANCES:
 2
    ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
     1021 North Grand Avenue East
    PO Box 19276
 3
    Springfield, Illinois 62794-9276
 4
     217-558-8280
     BY: DEAN STUDER, HEARING OFFICER
 5
 6
     ILLINOIS ENVIRONMENTAL PROTECTION AGENCY STAFF PRESENT:
 7
     Rex Gradeless, Assistant Counsel
 8
     Brian Koch, Environmental Protection Specialist
 9
     Darren Gove, Environmental Protection Engineer
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
```



Page 3 1 INDEX 2 3 OPENING COMMENTS BY DEAN STUDER ..... 6 4 COMMENTS BY DARREN GOVE ..... 13 5 COMMENTS BY KEVIN GREEN ..... 22 6 COMMENTS BY BRUCE RHOADS ..... 24 7 COMMENTS BY PAM RICHART ..... 25 COMMENTS BY JOYCE MAST ..... 8 28 9 COMMENTS BY MIKE MARRON ..... 29 10 11 COMMENTS BY LAN RICHART ..... 33 12 COMMENTS BY VINCE RANCURET ..... 35 13 14 COMMENTS BY ARTHUR CRONKHITE ..... 40 15 16 COMMENTS BY JOHN TAFT ..... 44 17 COMMENTS BY THOMAS DURBIN ..... 46 18 COMMENTS BY ALICIA HENRY ..... 47 19 COMMENTS BY WAYNE KARPLUS ..... 48 COMMENTS BY TOM MONAHAN ..... 50 20 COMMENTS BY TED HARTKE ..... 21 52 22 COMMENTS BY CINDY SHEPHERD ..... 54 23 COMMENTS BY JASON HERMAN ..... 56 24 



Page 4 INDEX (cont.) COMMENTS BY ANDY ROBINSON ..... COMMENTS BY GERMAINE LIGHT ..... 60 COMMENTS BY DAVID MAIN ..... 62 COMMENTS BY PHILIP HULT ..... COMMENTS BY TONY HEATH COMMENTS BY SUZANNE SMITH ..... COMMENTS BY STUART LEVY ..... 77 COMMENTS BY RICKEY WILLIAMS ..... COMMENTS BY JAN PREDMORE ..... 90 COMMENTS BY SUSAN MISNER ..... 91 COMMENTS BY VINCE KOERS 



		Page	5
1	INDEX (cont.)		
2	COMMENTS BY RACHAEL O'REILLY	100	
3	COMMENTS BY JOYCE BLUMENSHINE	101	
4	COMMENTS BY LYNN McCLINDEN	102	
5			
б			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			



Page 6 1 HEARING OFFICER STUDER: Good evening. We 2 will go ahead and go on the record. I have a few minutes beyond 6. 3 4 My name is Dean Studer and I am the hearing officer for the Illinois Environmental Protection 5 6 Agency. On behalf of the Acting Director John Kim, I 7 welcome you to tonight's hearing. 8 My purpose tonight is to ensure that this 9 proceeding runs properly according to the rules and is 10 conducted fairly. 11 Personally I will not be responding to 12 specific issues related to water quality certification 13 process, but will defer such issues to the Agency staff here with me tonight. 14 This is an informational hearing before the 15 Illinois EPA in the matter of a water quality 16 17 certification pursuant to Section 401 of the federal 18 Clean Water Act. The certification applicant is Dynegy 19 Midwest, LLC. 20 The specific project for which this certification is being sought is a streambank 21 22 stabilization and erosion mitigation project along approximately 1900 feet of the right descending bank of 23 the Middle Fork of the Vermilion River near Oakford. 24



Although Section 401 water quality
 certification is not a permit, this certification is a
 component necessary before activities to be authorized
 under a U.S. Army Corps of Engineers Section 404 permit
 can be undertaken.

Page 7

6 The Illinois EPA staff person reviewing the 7 certification is Darren Gove and he will be the second 8 person on my right. And he will provide more 9 information on the Section 401 and 404 process in just 10 a few moments.

11 The public hearing is being held under the provisions of Illinois EPA's procedures for 12 13 informational and quasi-legislative public hearings which can be found at 35 Illinois Administrative Code 14 Part 164 and in accordance with 35 Illinois 15 Administrative Code Part 395 which is procedures and 16 17 criteria for certification of applications for federal permits or licenses for discharge into waters of the 18 19 State.

These regulations can be accessed and downloaded on the website for the Illinois Pollution Control Board. Or if you do not have ready access to the internet, it can be obtained from me upon request. Illinois EPA will make a determination on the



Page 8 certification based on the issues contained in 35 1 2 Illinois Administrative Code, 395.401, namely that the intended activities not caused; 1, violations to the 3 4 water quality standards of 35 Illinois Administrative Code Part 302; 2, that not caused violations of other 5 6 pollution control board requirements; 3, that it not 7 cause noncompliance with Sections 301, 302, 303, 306 8 and 307 of the federal Clean Water Act; and, 4, that it 9 does not interfere with existing water usage, 10 particularly public recreation and food and -- public 11 and food processing water supplies. The Illinois EPA is holding this hearing for 12 13 the purpose of accepting comments from the public on the issues described above and on the Section 401 water 14 quality certification prior to taking final action on 15 the certification application. 16 17 At this time Illinois EPA has made a tentative determination that the project complies with 18 the antidegradation requirements of 35 Illinois 19 Administrative Code 302.105. 20

I stress that the regulations contain
provisions for public notice and Illinois EPA welcomes
comments on the antidegradation analysis.
Tonight's hearing is the only time that



	Page 9
1	Illinois EPA will be accepting oral comments on this
2	project. After the close of this hearing, all comments
3	will need to be submitted and either written or
4	electronic form.
5	We will continue to accept comments by mail
6	and e-mail through the end of the comment period on
7	April 25, 2019. But all comments must be received at
8	Illinois EPA headquarters by 11:59 p.m. on April 25,
9	2019.
10	E-mail comments need to be sent to
11	epa.publichearingcom, that is
12	p-u-b-l-i-c-h-e-a-r-i-n-g-c-o-m, at Illinois, spelled
13	out, dot gov.
14	I note the hearing notice provides specific
15	instructions on how to submit e-mail comments. The
16	e-mail address is also provided in that notice. Those
17	instructions are intended to ensure that Illinois EPA
18	receives all comments. Please follow them.
19	Comments submitted by either the United
20	States Postal Service or another carrier service need
21	to be received at Illinois EPA headquarters in
22	Springfield no later than April 25 when the public
23	comment period closes.
24	Those comments should be sent to me at the



Page 10 address provided on the hearing notice and I will give 1 2 that to you quickly. It is Dean Studer, Hearing Officer, Mail Code 3 4 No. 5, Illinois EPA, 1021 North Grand Avenue East, PO Box 19276, Springfield, Illinois, 62794-9276. 5 I also 6 note that that address is on the hearing notice. 7 I am going to ask that those that have signs, 8 that you keep them down. I need to be able to make 9 sure that everyone has access to the front. 10 I typically do not allow signs in the hearing 11 I am going to make an exception tonight, but I room. 12 am going to ask for your cooperation in that. If that 13 does not happen, I will then take a short break and ask that signs be removed and I would rather not do that. 14 15 When the public comment period is open, all relevant comments, documents and data will be placed 16 17 into the hearing record as exhibits. Following the close of the public comment 18 period, Illinois EPA will review all comments and 19 documents received. We will then determine whether to 20 issue a water quality certification. 21 22 And if we decide to issue a certification, then Illinois EPA will determine what, if any, 23 condition should be included in that certification. 24



A responsiveness summary will then be made available to the public. The summary will contain responses to all relevant issues raised at this hearing and during the comment period.

5 If we do not issue a water quality 6 certification, the Illinois EPA will make public the 7 basis for not issuing the certification. Illinois EPA 8 recognizes the importance of unique aquatic resources 9 of the Middle Fork of the Vermilion River.

10 The Middle Fork is Illinois' only National 11 Wild and Scenic River. As such the river is deserving 12 of the protection afforded by a thorough and 13 comprehensive review of all alternatives for the 14 appropriate closure of the coal ash impoundments. 15 Those release of contaminants threaten the Middle Fork 16 of the Vermilion River.

17 As was announced last week, Illinois EPA has asked the Office of the Illinois Attorney General to 18 represent the Illinois EPA in an enforcement case 19 20 regarding a closure of the coal ash impoundments and 21 the impact associated with those impoundments. 22 Illinois EPA will encourage the Illinois 23 Office of the Attorney General to allow public 24 participation in the process of developing the proper



## Page 11

Page 12 actions to eradicate those threat that the coal ash 1 2 impoundments pose to this unique water resource. 3 Accordingly appropriate ash impoundment 4 closure actions are subject matter for the enforcement 5 case and are not the focus of tonight's hearing. 6 Due to the impending enforcement case, we are 7 unable to comment further at this time regarding the 8 issues associated with the closure of the ash 9 impoundments. 10 The purpose of tonight's hearing is to obtain 11 comments on the water quality as related to the 12 proposed riverbank stabilization project. We look 13 forward to hearing your specific comments regarding this water quality certification. 14 15 I will now explain how tonight's hearing is going to proceed. First, I will have those seated at 16 17 the table introduce themselves and identify their responsibility within the Agency as it relates to the 18 proposed water quality certification. 19 Following introduction Darren Gove will 20 provide a brief explanation of the Section 401 water 21 22 quality process and a summary of this project. Finally 23 I will provide more specific instructions on how I will 24 be accepting oral comments during tonight's hearing.



Page 13 1 Again, the record in this matter will close 2 on April 25, 2019 and all written comments received by the State will be made part of the record in this 3 4 proceeding. At this time I ask that you silence all cell 5 6 phones and pagers, if you happen to have those antique 7 devices. If you have not already done so, please 8 silence them now. I will now have the Illinois EPA staff introduce themselves. 9 10 MR. GRADELESS: My name is Rex Gradeless. Ι 11 am with the Division of Legal Counsel and I provide 12 advice and counsel to the Agency. 13 MR. KOCH: My name is Brian Koch. I am an aquatic biologist in the Water Quality Standards 14 Section at Illinois EPA. My primary role of this 15 project is its potential effects on water quality in 16 17 the Middle Fork and Vermilion River. MR. GOVE: My name is Darren Gove. 18 I work in the capacity of an environmental protection engineer 19 20 for the Bureau of Water Permit Section in Springfield, 21 Illinois. 22 Good evening. As Dean mentioned earlier, the 401 certification is a component of the federal 23 24 permitting process. The federal Clean Water Act under



Page 14 Section 401 gives the State the authority to intervene 1 2 in the federal permitting process where regulated activity may result in a discharge of pollutants. 3 4 For this project the Corps of Engineers has 5 been requested to issue a permit for the discharge of 6 fill material into the Middle Fork Vermilion River. Under Section 401, the Agency may grant, deny 7 8 or waive certification. Denial of certification means 9 that the Corps of Engineers cannot issue their permit. 10 The Illinois EPA received a request on July 11 3, 2018, to begin its certification process and began 12 reviewing the proposed activity for compliance with 13 State rules and water quality standards. The proposed activity includes discharges 14 that consists of quarried stone, live plant stakes and 15 16 cuttings, soil, geotextile fabric and the resuspended 17 material resulting from construction activities at the 18 site. The proposed discharge of materials to the 19 river would occur as a result of installing engineered 20 streambank stabilization along approximately 1900 feet 21 of the right descending river bank. 22 23 The existing project site conditions include 24 approximately 900 feet of failed gabion basket



streambank stabilization, all of which would be removed during this construction.

Page 15

3 The proposed stabilization includes 4 void-filled rip-rap that would be keyed into the 5 existing riverbank and riverbed and shaped to form a 6 stream embankment with a slope between 2 and 3 7 horizontal to 1 vertical.

8 The void-filled rip-rap embankment would then 9 be lined with a layer of 24 inch minimum diameter 10 boulders to resist erosion. Approximately 11,500 cubic 11 yards of stone would be used for this purpose.

Above the bank elevation, soil lifts wrapped in geotextile fabric and layered with live willow cuttings would be sloped to approximately 1.5 to 1 to finish out the bank stabilization. Approximately 2,000 cubic yards of soil would be used for this purpose.

17 The proposed plan also includes a gravel 18 maintenance access road landward of the stabilization 19 that would run along the entire length of the 20 stabilization, though this feature is located above and 21 beyond the ordinary high-water mark.

A variety of live plant cuttings and seeds would be used throughout the stabilization profile to promote vegetation growth above and below the ordinary



1 high-water mark.

2 The proposed activity also includes the excavation and removal of approximately 9,000 cubic 3 4 yards of existing riverbed and riverbank material 5 including the existing gabion baskets. 6 The applicant has proposed to stage this 7 material in an upland location without any potential 8 for runoff to waters of the state. 9 The applicant has also proposed that all 10 in-stream construction activities would occur within a 11 temporary cofferdam structure identified as a 12 porta-dam. The cofferdam would isolate the in-stream 13 construction from the river's current and would 14 minimize discharge of resuspended solids to the river. 15 16 If the Agency determines that certification 17 can be granted, the certification conditions determined necessary for the project to meet water quality 18 standards would become part of the final Department of 19 20 the Army permit. 21 HEARING OFFICER STUDER: Thank you, Darren. 22 Statements made tonight should relate to the water quality certification. As hearing officer, I intend to 23 24 treat everyone here tonight in a respectful manner. Ι



Page 17 ask that members of the panel and the public do the 1 2 same. Should comments begin to drift into areas 3 4 away from this water quality certification, I may 5 interrupt and ask the speaker to move to their next 6 relevant issue. Applause and other responses are not 7 appropriate during this hearing. 8 If the conduct of persons attending this 9 hearing should become unruly, I am authorized to 10 adjourn this hearing should the action warrant. 11 In such a case, the Illinois EPA would still 12 accept written comments through the close of the 13 comment period which is April 25, 2019. 14 It appears the time is going to be somewhat of an issue this evening and we will make every attempt 15 16 to get to everyone that has indicated a desire to 17 speak. 18 In the event that we do not get to everyone, I will ask that you submit written comments. Please be 19 20 respectful of others here in attendance. 21 I encourage those commenting to provide a 22 summary of their comments and then to submit your comments in their entirety to Illinois EPA before the 23 24 public comment period closes.



Page 18 1 I want to avoid unnecessary repetition. Ιf 2 the information contained in your statements is 3 primarily the same as already presented, I encourage 4 you to only mention it in passing and quickly move on 5 to your next issue. 6 If what you plan to say has already been 7 said, then feel free to pass when I call your name the 8 first time. Once a relevant issue is raised, the 9 Illinois EPA is mandated to consider it and will 10 address it in the responsiveness summary. 11 We are primarily here tonight to listen to your comments. However, Illinois EPA staff may ask 12 13 questions to ensure that we fully understand your 14 comments. We also reserve the right to correct 15 misrepresentations. 16 For the purpose of allowing as many as 17 possible to provide comments and to ensure that we conduct this hearing in a timely fashion, I will impose 18 19 a time limit of 3 minutes per speaker. 20 In the event that we cannot accommodate everyone that wishes to make oral comments this 21

22 evening, you are asked to submit your comments to me in 23 writing or through electronic means.

24 Written comments and electronic comments are



Page 19 given the same consideration as oral comments received 1 2 during this hearing and may be submitted to the Illinois EPA at any time through the end of the comment 3 4 period. 5 I will not allow speakers to argue or engage 6 in prolonged dialogue with members of our panel or with 7 others here in attendance. I also will not allow 8 members of the public to address comments to other 9 members of the public. 10 We have a court reporter here who is taking a 11 record of this proceeding for inclusion with our 12 administrative record. Therefore for the benefit of the court 13 14 reporter, please keep the general background noise in 15 the room to a minimum so that everyone can hear what is said and that the comments can be accurately 16 17 transcribed. Comments from the public are to be addressed 18 to the hearing panel so that the court reporter can get 19 20 an accurate transcription of the comments. 21 Illinois EPA will post the transcript of this 22 hearing on our web page in the same general place where the public notice and hearing notice for this project 23 24 have been posted.



Page 20 When I call your name, please come forward. 1 2 And if you would take a seat in the front row there 3 which there is an empty spot right there, I will call 4 three names at a time and I will have you come down 5 when I call your name. Then I will call your name a 6 second time. And at that time please come forward to 7 the podium to speak. 8 For the record please state your name, and if 9 applicable, any governmental body organizations or 10 associations that you are formally representing. 11 If you are not representing a governmental 12 body and organization or an association, you may 13 indicate that you are either a concerned citizen or 14 just a member of the public. 15 For the benefit of the court reporter, I ask 16 that you spell your last name. If there are alternate spellings of your first name, feel free to spell your 17 18 first name as well. Once you spell your name, I will begin timing you and you will have 2 minutes to 19 20 complete your comments. 21 AUDIENCE MEMBER: Was it 2 or 3? HEARING OFFICER STUDER: It is 2. 22 AUDIENCE MEMBER: You said 3 earlier. 23 24 HEARING OFFICER STUDER: Did I say 3 earlier?



	Page 21		
1	I apologize. I have an x in front of me based on the		
2	number of cards that we have. I am also going to		
3	remind you when we have 30 seconds left so that the 2		
4	minutes doesn't just come real abruptly.		
5	If reading from a prepared statement, please		
6	consider submitting the statement to us at the		
7	conclusion of your comment, of the comment period and I		
8	will enter it into the record as an exhibit. And		
9	please read slowly so that all comments can be		
10	accurately transcribed.		
11	All speaking at this hearing will need to		
12	project your voice into the microphone so everyone in		
13	the room can hear your comments.		
14	Again, comments are to be directed to the		
15	hearing panel. Prolonged dialogue with members and		
16	comments directed to others in attendance are not		
17	permitted.		
18	Please abide by the time limits. I will		
19	remind everyone the focus of this hearing is the water		
20	quality certification. Are there questions regarding		
21	the procedures that will be used for this hearing?		
22	(No response.)		
23	HEARING OFFICER STUDER: Okay. Let the record		
24	indicate that no one raised their hand. As required by		



Page 22 law I will read the names of those that have so far 1 2 submitted comments. This is required by Section, by 3 Part, excuse me, 164. 4 So far we have received comments from Rita 5 Adams, we have received comments from Sharon Hoff, we 6 have received comments from Paula Hurst, and we have 7 received comments from Betty Sexton. 8 I am required by law to read those. Ι 9 typically try and preserve someone's privacy as much as 10 I can, but Part 164 is very explicit. 11 With that said, we have a number of people 12 that have registered to speak. I have got cards for 13 well over 50 people. So we will go ahead and get 14 started this evening. First three people it looks like are Kevin 15 Green, looks like Dr. Bruce Rhoads and looks like 16 17 Pamela Richart. Kevin Green, you will be first. Ιf you will come to the podium and if you would spell your 18 19 last name. 20 MR. GREEN: Kevin Green, g-r-e-e-n. First of 21 all, as a graduate of Oakwood High School and not 22 Oakford, I would like to make a correction to your introduction. 23

HEARING OFFICER STUDER: Okay.

24



MR. GREEN: Kevin Green, Vermilion County
 Board, Executive Committee. Speaking for the County
 Board. The Illinois EPA should not prematurely approve
 a project that would harm the quality and use of the
 Middle Fork of the Vermilion River.

Page 23

6 A resolution approved by the County Board 7 unanimously offers the best option. While the coal ash 8 remains in place, any solution for bank armory is 9 temporary and allows for further degradation of the 10 river. That degradation would result in restrictive 11 quality and quantity of the uses of the river as far as 12 recreational uses.

13 A recent editorial summarizes my personal "This is no time and the Middle Fork is no 14 beliefs: 15 place for risky, halfhearted control measures. The 16 river is used by thousands of anglers, kayakers, 17 canoers and others every year and is vital to the 18 economy of Vermilion County. Further damage would be devastating". 19

In summary, I repeat, the Illinois EPA should not prematurely approve a project that would harm the quality and use of the Middle Fork River. Thank you. HEARING OFFICER STUDER: Thank you. Bruce Rhoads.



Page 24 1 MR. RHOADS: My name is Bruce Rhoads. I am a 2 professor at the University of Illinois. I'm not officially representing them, but I am here because --3 HEARING OFFICER STUDER: Can you spell your 4 5 last name for the court reporter? 6 MR. RHOADS: Yes. R-h-o-a-d-s. And I am here 7 more to just express I guess my opinions about the way 8 in which management of the system is occurring. And I think it sort of reflects I quess the 9 10 piecemeal, what I see is a piecemeal sort of way in 11 which we do manage rivers in this country. 12 And I have dealt a lot with Corps 13 certification projects and while I recognize that is the way things work, I also see it as largely ignoring 14 important issues that come up because things are 15 connected to the rivers. 16 17 And dealing with one issue like water quality separate from other issues I think is not an effective 18 way to wholistically manage the system. 19 20 So I guess regarding water quality particularly from what I have seen, what I have been 21 22 sent by people who have access to the plans, I guess one of the things I am concerned about is that water 23 24 quality, the effects are uncertain at this point.



Page 25 Mainly because no details are really provided 1 2 in the plans of possible contingencies, how to deal with contingencies. Particularly something like a 3 4 large flood that occurs during construction. 5 Rivers are unpredictable. And if there is a 6 lot of excavating taking place while a flood occurs, 7 that could cause a problem. 8 And also a concern to me is how even a low 9 flow could be controlled specifically. I know that 10 there was plans to use dams and things, but it is not 11 clear exactly how they will be used and used 12 effectively. 13 And I guess finally just a point that, again, 14 separating the problem of the coal ash itself from the water quality in this particular project is I think 15 difficult to do because ultimately this river is going 16 17 to I think erode that on which these pits sit and that will create a water quality problem. 18 19 HEARING OFFICER STUDER: Thank you. 20 MS. RICHART: Good evening. My name is Pam Richart, r-i-c-h-a-r-t. I work with Eco-Justice 21 22 Collaborative, a non-profit based in Champaign, Illinois. 23 24 And I regularly kayak the Middle Fork and I



want to see it protected in perpetuity from coal ash
 pollution.

The purpose of Dynegy's stabilization project 3 as it has been described on page 2 of the 4 5 Anti-Degradation Assessment is and I quote "to provide 6 streambank stabilization along this stretch of river 7 and deter advancing erosion towards the adjacent ash 8 pond berms that have not yet undergone closure 9 operations". 10 When this stated purpose, I believe the 11 alternatives analysis included in the Anti-Degradation 12 Assessments becomes deficient. 13 According to IEPA requirements, applicants 14 for 401 water quality certification must provide an assessment of alternatives to the proposed project that 15 will result in the following: One, a reduced pollutant 16 load; two, no load increase; or, three, minimal 17 environmental degradation. 18 19 While Dynegy alternatives range from no 20 action to relocating the river, their analysis fails to identify the removal of their toxic waste as a viable 21 22 alternative that would eliminate concerns over naturally occurring erosion, reduce pollutant loads and 23

24 minimize environmental degradation.



1 So I am here to ask you why hasn't coal ash 2 removal been considered as one of the ways to meet the 3 expressed purpose of the project.

I know removing the coal ash from the floodplain will require temporary bank stabilization and the temporary stabilization would eliminate the massive fill, the disturbance of contaminated soils and the disruption of recreational activities associated with the project.

10 The river channel is precariously by Dynegy's 11 ash pit and Dynegy says, I am told, they will act when 12 the area between the riverbank and the total of the 13 slope of the old ash pit reaches 3 feet.

But what if this system fails when the distance reaches 8 feet, not 3 feet. So I am asking you why aren't we requiring interim bank stabilization.

17 A smaller project could be approved more quickly and address the urgent need to protect those 18 banks without risking a catastrophic spill while 19 20 agencies continue to plow through documents associated with this monstrous project and interim stabilization 21 22 could be removed upon coal ash relocation. HEARING OFFICER STUDER: 23 30 seconds. 24 MS. RICHART: Perfect. One last couple of



## Page 27

sentences. I think we are reviewing the wrong project
 because the alternative analysis is so deficient and
 the risks of coal ash in the short term is so great I
 ask you to withhold your approval of Dynegy's project,
 but to instead require ash removal and temporary bank
 stabilization to protect our river now. Thank you.

Page 28

7 MS. MAST: My name is Joyce Mast, m-a-s-t. I 8 am here with Faith in Place, an organization in the 9 State of Illinois that brings environmental causes to 10 the floor so that the State of Illinois will be 11 sustainable for all of us in perpetuity.

12 This project has a high probability of 13 disturbing and resuspending contaminated soils and 14 sediments into the river.

15 This could bring great harm to water quality and redistribute the coal ash coming from downstream 16 17 where they may be ingested by fish and other aquatic wildlife or coming into contact with recreational uses 18 of the river of which I, my children, my grandchildren, 19 20 my friends, my sister and brother-in-law, we have been coming here since 1975 in all seasons of the year. 21 We play in the water. We hike around the 22

23 water. We bike. So we see orange sediment which
24 regularly pool and settle in the river channel next to



1 the coal ash pits.

	-
2	Samples of leachate taken from groundwater
3	seeps from riverbeds in this section by Illinois
4	personnel in 2008 were determined to contain coal ash
5	chemicals.
6	In 2016 and again in 2017, water quality
7	testing of these seeps by certified independent
8	laboratory showed the presence of arsenic, barium,
9	boron, chromium, manganese, molybdenum, and sulfate,
10	all of which exceeded background levels.
11	Is this a place that we want to take our
12	family members? No. This needs to be cleaned up.
13	Thank you.
14	MR. MARRON: My name is Mike Marron, m-i-k-e,
15	m-a-r-r-o-n. I am the State representative in the
16	104th District.
17	I appreciate the Illinois EPA holding this
18	hearing and taking in the public input. I appreciate
19	everyone being here, all the concerned citizens.
20	And as far as the water quality certification
21	and the bank stabilization, I think it goes without
22	saying that we need a permanent solution that protects
23	the environment.
24	The mess needs cleaned up without question



Page 30 because this is a national treasure that we have right 1 2 here in our neighborhood. And people like their 3 treasure. And so that needs to be permanently 4 protected. 5 And not only do we need a permanent solution 6 to secure the environment long term, but in addition to 7 that, this river is critically important to the local 8 economy as well. People come from all over the Midwest 9 to enjoy this river. 10 (Audience applauding.) 11 HEARING OFFICER STUDER: I ask that you please 12 hold the applause. We need to keep things moving 13 tonight. 14 MR. MARRON: I think it is important as well 15 that we look at a long term permanent solution that takes into account the steady energy of the riverbank 16 17 as well because of the fact that it is a major 18 attraction for people. 19 And it is so very important to this part of 20 our area. And I think we talked about the river, we 21 talked about the resources. It is an environmental 22 treasure. 23 It is something that is critically important to us economically, but it is also part of the history 24



Page 31 of this area. A lot of us grew up on the river. 1 I did 2 myself. I find it very personal. And so I just ask that you consider a long 3 4 term permanent solution that cleans up the coal ash and 5 fixes this problem in perpetuity. Thank you. 6 HEARING OFFICER STUDER: Thank you. 7 MS. WOLFE MARLIN: Good evening. My name is 8 Diane Wolfe Marlin, Mayor of the City of Urbana, 9 Illinois. I urge the Illinois --10 HEARING OFFICER STUDER: Can you spell your 11 name please. 12 MS. WOLFE MARLIN: D-i-a-n-e, w-o-l-f-e, 13 m-a-r-l-i-n. I urge the Illinois EPA to deny Section 14 401 Water Quality Certification for Dynegy Midwest Generation related to the proposed riverbank 15 stabilization project in the Middle Fork of the 16 17 Vermilion River. This river is the only National Wild and 18 Scenic River in the State of Illinois. The proposed 19 20 stabilization project will violate certain water quality standards and permanently degrade the river 21 22 ecosystem and interfere with recreational and other 23 water uses. 24 The Illinois EPA and Governor J. B. Pritzker



Page 32 should completely remove coal ash storage from the 1 2 floodplain of the Middle Fork of the Vermilion River. 3 The proposal to rip-rap 1900 feet of the 4 riverbank will irreparably harm the Middle Fork River. It will release contaminated sediments and soil into 5 6 the river, degrade water quality and increase levels of 7 toxic chemicals. 8 These bank stabilization rip-rap projects are 9 at best inadequate and temporary solutions. The Middle 10 Fork River and all rivers naturally meander through the 11 landscape. Eventually the force of the water will 12 undercut the rip-rap and coal ash contamination will 13 continue to occur. 14 The project will also disrupt recreational enjoyment by canoeists, kayakers, anglers and hikers. 15 16 Visitors will be forced to portage around the 17 construction zone or avoid the area altogether. 18 Afterward the appearance of the riverbank will be altered from its natural state and it will scar 19 20 the centerpiece of a major recreational area and 21 ecosystem in East Central Illinois. 22 The Middle Fork River belongs to the people 23 of the United States. 40 years ago thousands of 24 citizens fought to keep the Middle Fork flowing free.



It was the first river I ever canoed on and as a
 student at the University of Illinois and that was a
 long time ago.

I believe we are obligated to protect this National Wild and Scenic River. Protect the Middle Fork River. Deny Section 401 certification for Dynegy and expand the options to include complete removal of all coal ash pits from the floodplain. Thank you. HEARING OFFICER STUDER: Thank you.

MR. RICHART: Good evening. Thank you Officer
Studer and the other representatives from the Illinois
EPA here tonight.

My name is Lan Richart. That is spelled l-a-n, r-i-c-h-a-r-t. I am a Codirector of the Eco-Justice Collaborative in Champaign, Illinois.

We know from the IEPA Notice of Violation issued to Dynegy in June of 2018 and from independent analyses of leachate moving through the streambank into the river adjacent to the North and Old East Ash pits, there is a high probability that the soils in the bank and bed of the river are contaminated with coal ash chemicals.

We also know that construction of the projectwill require the excavation of materials from the



## Page 33

riverbank and riverbed and that the disturbance of
 these soils is likely to disperse contaminated
 sediments into the river.

4 So it is puzzling then that the Public Notice 5 and the Associated Fact Sheet make no mention of this 6 nor specifically how this threat will be addressed 7 during construction.

8 In Dynegy's Storm Water Pollution Protection 9 Plan which was submitted to the U.S. Army Corps of 10 Engineers, they propose to use a silt curtain.

We know from FOIA information the U.S. Army Corps of Engineers has advised Dynegy that that will not be adequate and you mentioned tonight the use of a Porta-Dam.

15 I would like to also make mention that the 16 U.S. Army Corps of Engineers Research Development 17 Center in at least one research paper quotes the 18 PortaDam was efficient under hydraulic loading, but did 19 not test well in debris impact tests. These are 20 exactly the conditions that are found frequently in the 21 Middle Fork during high discharge.

So tonight I am going to ask several questions. I don't necessarily expect a verbal answer to them, but I would like to get a written responses so



Page 34

1 that it can be shared.

2 First, on what basis and with what 3 documentation has the Agency determined that all 4 existing uses of the water body will be fully 5 protected. 6 Second, in your determination what level of 7 contamination did you identify in the soils. Third, 8 what sedimentation controls did you assume the 9 applicant will use. What percentage of suspended soils 10 did you assume would escape into the river during 11 months of construction. 12 And, finally, a very important one, what is 13 the contingency plan for controlling sediments when 14 river discharges exceed the capacity of sediment 15 control measures and those structures, contaminated sediments, as well as other erodible bank soils are 16 17 washed downstream. Thank you. 18 HEARING OFFICER STUDER: Thank you. 19 MR. RANCURET: I am Vince Rancuret, 20 r-a-n-c-u-r-e-t, concerned citizen. First of all, I 21 would like to thank you all for hosting this session 22 and taking a genuine interest in our river and 23 environment. It means a lot to us to know that you are 24 here.



I understand that our focus is bank Stabilization relevant to the Clean Water Act and whether what we think is the proposal will have any degradation issues.

Bank stabilization is needed in some form 5 6 While I have many concerns, I will focus of indeed. 7 the point that we are told that since there is not a 8 very wide area between the river channel and the berm 9 that holds back the coal ash, the intent is to place 10 construction equipment in the river itself with some 11 sort of thick curtain or wall separating the flowing 12 river from the work area.

This will make that portion of the river much narrower. I think that part of the Bernoulli Principle would apply here. When you push the same amount of fluid through a narrower space, the fluid will increase in pressure, speed and energy.

18 The downstream effect is a change in the 19 dynamics of the river. I can see more sediment being 20 introduced into the river including the already present 21 toxic chemicals.

22 Recreational activity will also change due to 23 1/3 mile construction zone potentially either 24 restricting portions of the scenic river by closing it



Page 36

1 down, introducing unsafe or hazardous area or requiring 2 families, many with children to exit their canoes or 3 kayaks and portage over 1/3 of a mile around the 4 construction zone.

Page 37

5 This can and will affect public use and 6 recreation negatively when then has the spillover 7 effect on the livery operator at Kickapoo State Park. 8 And when we have excessive rainfall, such as 9 in February 2018 that took out a levy, the problems 10 will multiply exponentially.

I know there should be other options and potential solutions. For all I know, other options have been looked at, it is just that the hearing notice does not seem explicit or detailed. We would very much like to see more details.

I understand that the IEPA is using the siloed approach by virtue of the sections. It ensures that you can apply appropriate resources, drill down nicely and not miss anything.

20 But how do you know that your solution 21 integrates with other departments and agencies. Is 22 there a liaison in place that is the coordinator over 23 all the different sections?

Are you sure that you are getting straight



24

1 consistent information submittals from Dynegy across
2 all agencies?

I understand I am not the expert, but only seeing the solution set forth, I am concerned of the well-being of the river's water quality, especially knowing that if the coal ash is moved properly, the bank stabilization project could be done in a safer way with less risk of environmental water contamination. Thank you.

10 MR. CHENAULT: My name is Woodrow Chenault, 11 c-h-e-n-a-u-l-t. I am retired consulting engineer. I 12 reside in Monticello, Illinois and I spent about 38 13 years as a consulting engineer in Champaign, Illinois. 14 I just became aware of this public hearing or

15 this comment period this morning. I apologize for 16 that. So I am going to hand you a sketch of an idea 17 that I had that I think bears some looking into from my 18 experience.

From my own experience with riverbank stabilization particularly, I have serious questions as to the long term adequacy of the bank stabilization and containment measures without significant physical separation to protect the waters of the state and water quality and also the wild and scenic character of the



## Page 38

1 river.

2	I think that the measures that are being
3	proposed will probably degrade the water quality in the
4	short term and it is very hard to make stabilization
5	measures stay in place from my experience.
6	So I will view them as a short term measure
7	rather than a long term solution. So I recommend
8	physical separation as the most as the best method
9	of protecting the waters and preserving the national
10	character of the wild and scenic river.
11	I recommend that you folks in the EPA with
12	your water quality certification and Corps of Engineers
13	and your following 401 permit consideration consider
14	granting a conditional emergency permit to the most
15	sensitive areas likely to fail.
16	HEARING OFFICER STUDER: 30 seconds time.
17	MR. CHENAULT: And then before a final water
18	quality certification permit is issued, I would
19	recommend a consideration of a new naturalized cutoff
20	channel to move or separate the river from the
21	currently contaminated area is the best long term
22	solution.
23	The area has many natural oxbow channels and
24	cutoff channels already in place as evidenced by the



Page 39

Page 40 1 National Park Service website that I was on this 2 morning. The relief map shows many, many --3 HEARING OFFICER STUDER: We are out of time. 4 MR. CHENAULT: So I will hand you my sketch 5 and you can -- I consider that an amenity which could 6 perhaps be pursued and possibly with grant funding. 7 Because it is an amenity. 8 HEARING OFFICER STUDER: I will add it. 9 MR. CRONKHITE: My name is Arthur Cronkhite, 10 c-r-o-n-k-h-i-t-e. I am just a citizen. I live in 11 what is called the (inaudible) prairie, a watershed 12 point between the North Fork and Vermilion or North 13 Fork and Middle Fork Rivers. I am 7 miles from the 14 plant. Obviously this group does not understand the 15 geology here because you keep focused on the river. 16 17 That is only a tiny piece. 18 When you are on that river and you are looking at the water, you are looking at water that 19 20 goes out for miles through the gravel. Miles. 21 It connects into my water where I live. 22 Between the two rivers is a giant stone bowl. It is 300 feet deep up by Henning, all right. That water 23 24 flows out through and interconnects. All of the water



Page 41 in that area interconnects with all the other water. 1 2 So when you are on that river, you are 3 sitting there floating on the watershed that is not 4 even a watershed, it is a water table. Preponderancy 5 owns our government now. It also owns our bureaucracy 6 and no better example is where you have your feet 7 planted. 8 I am tired of the (inaudible) defecating in 9 our dinner plate and then making us eat it. That is 10 exactly what is happening. 11 Personally I have very little hope that 12 anything good will come out of this, especially after 13 experiencing and witnessing and working in the insane wind turbine money laundering scheme that has left 14 damaged bodies and shattered estates. 15 16 I really have no hope for what you guys are 17 going to do to us because I know what has been done to 18 us before in this county. You keep talking about discharge and the waterway. The waterway is the 19 20 discharge. 21 You can put a wall up, but it is still going 22 to go out and around and down. It is not going to do 23 anything. The problem is you have leaking ash and the only way you are going to protect us from that is to 24



1 move it somewhere and seal it. That is only thing that
2 will work.

Page 42

What you see coming out of the bank is what 3 4 is in the ground and it goes out for miles. Start 5 doing some tests and see what you find out there. 6 Dynegy loves this circus. This is the 7 perfect circus that they are paying for. Because it 8 keeps everybody focused on the river, on the river, on 9 the river, on the discharge. That is not the problem. 10 The problem is the ash. It has to be moved 11 or it will poison that entire region because it all 12 interconnects. Thank you. 13 HEARING OFFICER STUDER: Mary Kay Solecki. 14 Spell your name please for the court reporter. 15 MS. SOLECKI: I am Mary Kay Solecki, s-o-l-e-c-k-i. So I respectfully request that the 16 17 Illinois Environmental Protection Agency deny Dynegy Midwest Generation's 401 application for water quality 18 19 certification. 20 In its application, Dynegy considered five alternatives including an alternative to move the river 21 22 over to a newly dug channel, a very costly and environmentally damaging alternative. 23

24 It is astonishing that the applicant did not



Page 43 also consider the alternative long term solution of 1 2 moving the coal ash out of the river's flood zone. 3 The only permanent solution to protect the 4 Middle Fork from coal ash pollution is the removal of 5 all coal ash from the floodplain. 6 The preferred alternative, No. 2, calls for 7 placing an approximately 2,000 foot long wall of 8 stones, boulders and rip-rap on the banks of Illinois' only National Wild and Scenic River. 9 10 This alternative would allow continued 11 contamination of the Middle Fork from the coal ash pits 12 and would compromise recreational use of the land 13 including degrading the scenic quality of this river 14 stretch. 15 I formerly worked with the Illinois Nature Preserves Commission and helped manage Orchid Hill 16 17 Natural Heritage Landmark which lies on the west side 18 of the ash pits. 19 I would stand on the hill looking out over 20 the vast coal ash pits in the floodplain below. Seeing the huge coal ash so close to the river worried me. 21 22 It is a very bad location for so much ash. Contaminants from the coal ash already enter the river 23 and this will continue unless the ash is moved away 24



Page 44 from the river. Leaving the coal ash in the floodplain 1 2 is a catastrophe waiting to happen. IEPA should deny certification for 3 4 alternative No. 2 and ask Dynegy to seriously consider 5 moving the coal ash out of the floodplain to an upland 6 location away from the river. Thank you. 7 HEARING OFFICER STUDER: I will remind you the 8 appropriate focus of tonight's hearing is not the coal 9 ash closure, but it is the actual stabilization of the 10 riverbank. John Taft. 11 MR. TAFT: Good evening. My name is John 12 Taft, j-o-h-n, t-a-f-t. I am a concerned citizen. Ι 13 am a botanist who found original inspiration to gain an 14 understanding of our natural resources from wild ares such as the Middle Fork River ecosystem. 15 16 I address you this evening concerning the 17 issue of toxic contaminants from the coal ash deposits leaching into the Middle Fork of the Vermilion River 18 and the eminent threat of streambank erosion and direct 19 20 contamination from the coal ash deposits into the 21 stream. 22 With specific regards to the Dynegy Midwest Generation 401 application for water quality 23 certification, a review of the five alternatives that 24



were under consideration for remedial action reveals a glaring shortcoming while the Dynegy planners even actually considered moving the course of the river, the option to relocate the coal ash was not formally considered.

Page 45

6 The option preferred by Dynegy, Alternative 7 No. 2, to reinforce a 1900 foot long length of 8 streambank with rubble and shrubbery is at best a 9 stopgap measure that also fails to address the issue of 10 ongoing contamination from ground water seepage which 11 would result in violations of established Pollution 12 Control Board water quality standards as well as 13 resulting in noncompliance of sections of the Clean 14 Water Act.

Borrowing from a health model, there is a cancer on the landscape that is spreading and the best minds on the project at Dynegy only came up with a band-aid solution.

Do the right thing and reject the Dynegy Midwest Generation 401 application for water quality certification and any other proposal that does not address the safe removal of the source of the problem, the coal ash deposit itself.

HEARING OFFICER STUDER: Okay. Thank you.



24

1 Thomas Durbin.

2 MR. DURBIN: My name is Thomas Durbin, d-u-r-b-i-n. I am a licensed professional engineer and 3 4 also have grown up in the shadows of the plant and 5 spent a lot of time in the Middle Fork area my entire 6 life. 7 From a professional standpoint though I want 8 to stick to the points you have in the bulletin. State 9 that this will certainly in the short term have a 10 negative impact on public recreation and water quality 11 in the area as we have already heard so I will be 12 brief. 13 Very explicitly, a lot of things will be 14 released during the construction that will be an unsafe area where people will be during construction. 15 16 Post construction as we can see now with the 17 solution in place that is failing, this is only a similar site version of that. In the long term I don't 18 want to see my kids, grandkids and future generations 19 20 have the same arguments 20, 30, 50 years from now about banks failing, solution from the past that we didn't 21 22 take the right action. 23 The right action now is for a permanent 24 solution to preserve Middle Fork, the water quality and



Page 46

recreational use of the river is to remove all the coal
 and all other hazardous material from that site at this
 time. Thank you.

Page 47

4 HEARING OFFICER STUDER: Thank you. Alicia5 Henry.

6 MS. HENRY: My name is Alicia Henry, 7 a-l-i-c-i-a, h-e-n-r-y. I appreciate the opportunity 8 to speak tonight. Thank you for giving this hearing. 9 My grandparents bought a farm approximately 2 10 miles from this site in the 1940s. My whole family has 11 used the Middle Fork for many decades.

When my children were young and when they were teenagers, we bought a couple of canoes so we would regularly be able to canoe the Middle Fork. We still have them.

Now the question is whether I would feel safe taking my grandchildren into a canoe on this river. This is something that is a tremendous resource for thousands of people in Vermilion County and then as we have heard tonight from many people from surrounding counties as well.

22 So I think that the proposal to just put in 23 rip-rap or however you say that is an ugly proposal. 24 It is temporary at best.



Page 48 1 I don't understand the engineering behind it 2 so I won't even talk about that, but as far as its recreational value, once logs or boulders and things 3 4 get stuck into a place like this, weeds come up. Ιt 5 gets hideous. And I have canoed that river a number of 6 7 And I know that sometimes when it is shallow, times. 8 you do need to pick up the canoe and walk quite a way. 9 And I don't know what would happen if this sort of 10 proposal, if it is even possible at that point. 11 I hope that you will deny Dynegy this permit 12 and I hope that IEPA and other agencies will insist 13 that appropriate measures will be taken to remove the hazard and to contain and remove all of the coal ash 14 15 from these ponds. It is something that the public does not 16 17 deserve to have. It is clearly a danger and we want to preserve this river for the future generation. 18 Thank 19 you. 20 HEARING OFFICER STUDER: Thank you. Wayne 21 Karplus, can you come forward? 22 MR. KARPLUS: My name is Wayne Karplus, w-a-y-n-e, k-a-r-p-l-u-s. And you have just heard from 23 my wife, Alicia. When we met 20 years ago, we started 24



Page 49

1 canoeing.

2 Her father told stories of when he was a boy canoeing down this particular river. And he grew up 3 here and built the farm in the 40's. He grew up in the 4 5 shadow of this river. 6 I would like to be able to canoe safely with 7 my children. I have done it with my children, but now 8 they have their own children, not yet canoe age. 9 But I wonder if the streambank stabilization 10 in the past that has failed, this too will allegedly 11 fail. This river is a powerful river. 12 Believe me, when I was with my daughter and a 13 branch got caught on our canoe and we tipped over, it was perfectly calm. The power of that river ripped the 14 shoes off my feet, my tennis shoe. 15 16 That river is strong. It may not seem that 17 way, but it is. A river bank stabilization is at best temporary. It cannot, that river is too powerful. 18 19 The only long term solution is to remove the 20 coal ash. If you have to put in a temporary shoring, you will get that done, okay, but then remove that 21 22 shoring so the river can go back to its initial state. It is going to meander back and forth. 23 And 24 you are going to have this pile of rubble stuck in the



1 middle of nowhere.

2 So I ask you to deny this permit or at the 3 very least make it temporary so that the ultimate 4 solution of removing the coal ash and let the river be 5 a natural and scenic river. Thank you. 6 HEARING OFFICER STUDER: Thank you. Tom 7 Monahan. 8 MR. MONAHAN: My name is Tom Monahan, 9 m-o-n-a-h-a-n. I am the concession operator at 10 Kickapoo State Park --11 COURT REPORTER: We can't hear. 12 MR. MONAHAN: The riverbank stabilization 13 project being proposed as a solution to the coal ash threat is the project that will have the biggest 14 15 negative economic impact. 16 The presence of construction equipment in the river presents an imminent danger to recreational users 17 of the river. It must be closed to prevent accidental 18 injury or death. 19 20 Because the construction area lies midway through our primary river trip being the National 21 22 Scenic River section of the Middle Fork, it will 23 effectively reduce our income to almost nothing. 24 I am aware of a proposed portage plan, but



Page 51 after a review of this option I find it untenable due 1 2 to serveral logistical barriers. One, site selection 3 for take-outs and put-ins are extremely difficult. 4 Particularly the take-out. The site must be accessible, easily 5 6 identifiable from the river and be located in an eddy 7 or slow moving section of the river under both low and 8 high river levels. 9 Also the watercraft is not designed for 10 portages and even if services are available to assist, 11 portage times will be longer than anticipated, greatly 12 impacting the overall experience. 13 So you are going to expose people to the construction site. Basically we will probably close 14 15 down during the construction period. Down the stream or further, the embankment, a 16 good portion of our customer base comes from outside 17 the area. And a lot of that has to do with the natural 18 19 scenic river. 20 With the degradation of the natural scenic part, they will go with other options. So it will, we 21 will lose over time a portion of our customer base. 22 Μv concern about --23 24 HEARING OFFICER STUDER: 30 seconds.



Page 52 1 MR. MONAHAN: Thank you. Theodore Hartke. 2 MR. HARTKE: Good evening. My name is Ted Hartke. I am an Illinois licensed professional 3 4 engineer and Illinois professional land surveyor. 5 I own Hartke Surveying Incorporated which was 6 founded here in Vermilion County almost a decade ago. 7 My wife was born and raised in Vermilion County. 8 I have personally canoed the Middle Fork with 9 my wife's family and also a church youth group. 10 Therefore I have seen it from the riverside. 11 Also during the most recent riverbank erosion 12 shoreline abatement/repair project, I completed surveys 13 of the new groundwater sampling/monitoring stations, 14 therefore I've seen this conundrum from the power plant side. 15 Seeing it in person and on the power plant 16 side puts into the true scope of how large our problem 17 might be if our riverbank failed. 18 19 So here we are talking about a massive 20 streambank stabilization project. This is almost 2,000 feet of alteration to a natural river. 21 Shoreline 22 treatment is about the most unnatural thing you can do to a river. 23 24 Attempts to fence in or control nature never



works. Over time the river will always win. During the
 battle against nature's forces, a lot of effort and
 money will be wasted.

When the river eventually wins, there will be this scar of material, rip-rap stone scattered into the streambed and also downstream.

7 This streambed layer of large diameter rock 8 will use up some of the hydraulic radius end area of 9 the river causing the river to move along at an 10 increased velocity. And that said increased velocity 11 will further erode the banks on both sides.

12 The addition of streambank rock stabilization 13 material is an unnatural short-lived fix which only 14 buys some time for the owners of the coal ash. It 15 merely postpones the inevitable.

16 Once this short-lived shoreline rip-rap 17 becomes a failure, then we will all be right back here in another school gym wasting time with more 18 uncommitted politicians who throw out another moldy 19 20 task force idea or a weak feel-good county resolution. 21 The solution of this problem is plain and simple. 22 The root of the problem is the coal ash threatening our perfectly wonderful river. If the coal ash is removed, 23 24 then the streambank stabilization project vanishes into



## Page 53

Page 54 thin air. Put the coal ash in a place where it can 1 2 remain safe. Do it now. HEARING OFFICER STUDER: 30 seconds. 3 4 MR. HARTKE: Stop wasting our time and money on a temporary fix. Time does not allow me to explain 5 6 my recommendations on ways to pay for the coal ash 7 relocation project and unfortunately the rules of this 8 meeting are limiting our comments to only the 9 streambank discussion. 10 Please reject Dynegy's plan to mess up 2,000 11 feet of our riverbank while a permanent correction is 12 obvious and staring us right in the face. 13 The first mistake was putting this coal ash 14 in a bad place. I don't know what they were thinking. They probably were not thinking. Adding another 15 mistake to the first mistake is even more unthinkable. 16 17 Thank you very much and have a good evening. 18 HEARING OFFICER STUDER: Thank you. Cindy 19 Shepherd. 20 MS. SHEPHERD: My name is Cindy Shepherd, 21 s-h-e-p-h-e-r-d. I thank the panel for the opportunity to speak with you tonight about this issue. 22 I work for Faith in Place which is a 23 24 non-profit that helps people of faith become leaders



Page 55

1 and many are here tonight.

2	Many people here have been taking care of our
3	homes that we share as not only as good citizens, but
4	it is a strong spiritual obligation that we share.
5	One of the favorite parts of my job is every
6	summer my colleagues from Chicago and Lake County and
7	Waukegan and that area bring youth down here to Central
8	Illinois to see the beauty of this place where we live.
9	And they fall in love with it.
10	When they canoe the Middle Fork River, it is
11	like they have never seen water before because they
12	have never seen a wild scenic river before. They have
13	seen water meandering through their neighborhood
14	because the storm sewer doesn't work very well. So it
15	is really an awesome thing for them.
16	It has not only a recreational value, but an
17	educational and spiritual awakening for those young
18	people. And I just think it would be a tragedy for
19	them to come here and have that river instead remind
20	them of the piles of rubble that they see in urban
21	neighborhoods. That is not that is just not taking
22	good care of our home.
23	So I would encourage you to please deny the
24	certification that Dynegy is asking for and to insist



1 that they come up with a solution to the problem that 2 they have created which actually involves moving the 3 coal ash.

And I know that we are not supposed to be addressing that tonight. I don't want to, but I do think that you might be interested to know -- hands up if you want Dynegy to move that ash. Thank you. HEARING OFFICER STUDER: We appreciate your comments. Thank you. Jason Herman. MR. HERMAN: Hello. My name is Jason Herman,

11 h-e-r-m-a-n. I would like to start out by thanking 12 this panel for taking the public's comments.

I am a concerned citizen of the area, a
resident. I was alerted of this meeting via social
media and various non-profit and news media outlets.

And so I decided to speak tonight to talk about my concerns specifically. I purchased land south of the area that is being proposed for the riverbank stabilization of the Middle Fork.

A year ago this land was affected by a flood. And in this land I bring my three children to this area. We come out every weekend.

We have chosen to invest in this area versustaking vacations outside of Illinois. This is where we



## Page 56

Page 57 spend our time and this is where we bring our friends 1 and we have also met numerous friends in this area. 2 3 I have been presented with many facts. Coal 4 ash and the contaminants contain heavy metals; arsenic, 5 lead, mercury, boron, chlorine and so on. I am not an 6 environmental expert. I am not an engineering expert 7 by any means. 8 But I will present the facts to a temporary 9 solution to prevent these contaminants during 10 construction releasing the sediment and these 11 contaminants into the river that may affect my family 12 and my friends. 13 I also want to note that we really enjoy 14 spending the time in the area. We spend it as often as 15 we can. We also frequent businesses in the area as 16 well as have friends that come visit us in the area as 17 well. I am concerned about those businesses because 18 I have gotten to know those people and I have gotten to 19 20 know how they rely on the river and the visitors. 21 And I will be concerned if in a number of 22 years from now if we made the wrong decision and this was not a permanent solution and this affected people 23 and their health and their families. 24



Page 58 1 And I want to conclude by saying that I am 2 concerned. I have been presented with many facts that this is a temporary solution and there are many 3 4 dangerous contaminants in the coal ash. 5 And I would encourage this committee to 6 consider not approving this, but approving a more 7 permanent solution. Thank you for the opportunity to 8 speak. 9 HEARING OFFICER STUDER: Thank you. Dave 10 Thornton. 11 MR. THORNTON: Dave Thornton, t-h-o-r-n-t-o-n. 12 I am a river guide. The ash ponds have already leaked 13 into the river and groundwater. This project will disturb contaminated 14 15 sediments and degrade water quality in violation of The stabilization will be ugly and not in 16 law. 17 compliance with the Wild and Scenic Rivers Act. 18 The containment measures have not been proven in these circumstances. I have seen this river at 15 19 20 foot above level and I have seen it 6 inches deep. 21 This project will decimate the recreation of 22 Middle Fork and Kickapoo State Park in violation of federal law. As my wife said earlier, this is putting 23 a band-aid on a cancer. 24



Page 59 A question, have any of you of the EPA ever 1 2 been down the Middle Fork River? You have? I am glad 3 to hear that. I hope that puts into perspective what 4 is in jeopardy here. If you have not, it is an open invitation. 5 Ι have six canoes, five kayaks. I am on Facebook. 6 Look 7 me up. I will take you down the river. It will change 8 your mind. 9 There is only a tiny fraction of natural 10 Illinois left and your job is to protect it. I believe 11 that all of you started in this field with good 12 intentions. 13 Reject corporate pressure and do the right 14 thing. Don't issue the certification. Mr. Studer, 15 your no applause rule is arbitrary and illegal. Thank 16 you. 17 MR. ROBINSON: We have -- (inaudible). I also want to mention that there are plenty of nearby species 18 of fish and wildlife in the river. (Inaudible.) 19 In 20 addition to the issues with the quality of the river 21 and the impacts that these have, I hope you take all of 22 these considerations into account. Thank you. 23 HEARING OFFICER STUDER: Thank you. 24



Page 60 1 MS. LIGHT: Hello. My name is Germaine Light; 2 q-e-r-m-a-i-n-e, l-i-q-h-t. And I want to thank you for having this hearing for us and I want to thank 3 4 everybody here who came. And I appreciate the time 5 everybody has spent on this very important problem. 6 So basically I know that you are probably a 7 little bit annoyed that everyone is talking about the 8 coal ash when you have got this and that we are not 9 just talking about riverbank stabilization. 10 And I say this respectfully. Please don't be 11 offended. But I do think that it puts us between a 12 rock and hard place so to speak. You are trying to 13 hammer a square peg through a round hole because this 14 is a whole entire problem. 15 How many riverbanks along the banks of the course of the Middle Fork river are eroding? Tons of 16 17 them. Are you concerned about those? No. Are we 18 concerned about those? None of us are. 19 Because that is what rivers do. They erode. 20 They change their course. They move around in the floodplain. And Dr. Bruce Rhoads from the U of I stood 21 22 here and told you that river will be eroding toward 23 those coal ash pits. 24 And there is nothing you can do, nothing that



Page 61

humans can do that will stop it from doing that. You might slow it down a little bit. The river is going to find its way around it, behind it, underneath it, over it. It is going to ruin that whole, the whole deal of that wall.

6 And I am concerned about a number of other 7 things that do go against the National Scenic Rivers 8 Act. First of all, it is going to be very, very ugly. 9 It is going to be an artificial wall made of rip-rap 10 that is not native.

11 Native plants, native rocks, you know, that 12 is what we want to see along a national scenic river. 13 We want to see the real thing. People don't want to 14 see all that ugliness.

15 So I also think that that is great and 16 appropriate according to the National Scenic Rivers 17 Act. It is going to cause navigation problems. 18 Problems with kayaks, canoes and inner tubes.

19 I think that even if the Kickapoo Adventures 20 canoe livery does stop letting people pass there on 21 canoes, there are other people that have their own 22 canoes. 23 HEARING OFFICER STUDER: 30 seconds. 24 MS. LIGHT: I am also concerned about



Page 62 construction. It has been indicated that might take up 1 2 to a year to get construction done and what it is going to do to when we run into that and how to handle that. 3 4 Pollutants will be stirred up during construction and they have been sitting there in the 5 riverbank for years, decades, and silt. And this is 6 7 going to be bad. 8 This is going to reduce the water quality. 9 It is going to mess things up for the wildlife and the 10 quality of plants getting sunlight. And then it will 11 also reduce the oxygen level. The fish are not going 12 to be able to survive. 13 Tourists are going to start staying away from the place. That is going to hurt the economy of 14 Danville, Vermilion County. I hate to see them harmed 15 by this too, but also hotels, gas stations, 16 restaurants. So that pretty much sums up what I was 17 18 going to say. Thank you for listening to me. 19 HEARING OFFICER STUDER: Thank you. 20 MR. MAIN: Thank you. I am Dr. David Main. 21 I practice pulmonary environmental occupational 22 medicine. 23 HEARING OFFICER STUDER: Can you spell your 24 last name?



Page 63 MR. MAIN: M-a-i-n. I grew up in Danville, 1 2 canoed the Middle Fork many times and I am very concerned for the community. So I am concerned about 3 4 the public aspect about this issue. My concerns, obviously the toxic materials in 5 6 the coal ash, more than 3 million cubic yards. Those 7 materials include arsenic, chromium, mercury, boron and 8 there are many others. 9 I wanted to mention two of these very 10 briefly, namely arsenic and chromium, because these 11 were found in groundwater testing at the site. 12 So why these two. These are carcinogens. 13 They cause cancer. Arsenic is known to cause cancer. I'm particularly concerned about arsenic. 14 A director of the National Institute of 15 Environmental Health and Safety, Dr. Lindenberg, and I 16 17 quote, there is strong evidence of adverse health effects from various levels of arsenic exposure, that 18 at no level, that is no level of arsenic appears to be 19 20 safe. 21 Chromium also is a material found in the groundwater testing, also a carcinogen. It has kidney, 22 23 liver effects. I obviously mentioned these particular 24 They have been found already in groundwater two.



Page 64 testing. Also lead and mercury. How many pounds of 1 coal ash toxins --2 HEARING OFFICER STUDER: 30 seconds. 3 4 MR. MAIN: It is unbelievable. So the bank 5 stabilization activity involves excavation of the 6 riverbed, some of which maintain chemicals as I have 7 mentioned. As that activity continues, materials will 8 be released to the river. The quality will be 9 affected. Clearly a deterioration in quality. 10 Also the fact that stabilization does not 11 eliminate leaking of the chemicals already going on. 12 HEARING OFFICER STUDER: We are out of time. 13 MR. MAIN: As a physician I ask for you to not 14 approve this. 15 HEARING OFFICER STUDER: Jane Cade. 16 MS. CADE: Good evening. My name is Jane Cade 17 I grew up in Potomac and I am here tonight to c-a-d-e. share some information prepared by my friend Kris Camp 18 who was unable to attend, but is passionate regarding 19 20 the Middle Fork River. Kris had noted changes yearly in the river 21 22 channel cause by erosion and deposition. This is the way of the river. Unfortunately some of this erosion 23 is occurring near the coal ash pits of the power plant. 24



Several years ago while kayaking, Kris noticed colorful traces left by the leaching of chemicals into the river and the breakdown of the gabions in the same area of the riverbank by the power plant. This is not a normal occurrence along the other parts of the river.

Dynegy Midwest Generation has applied for an
erosion mitigation and streambank stabilization project
along 2,000 linear feet of the right bank of the Middle
Fork River.

11 This work would occur within 2 miles of 12 Kris's home and tremendously impede the use and 13 enjoyment of the Middle Fork River and its floodplain in the following ways: No. 1, being unable to kayak 14 this area of the river without having to portage 1/3 15 mile. Even if a small channel is left open for the 16 17 current to flow, it will be too dangerous to navigate due to the swift river current, especially during rain 18 19 or flash flooding.

No. 2, Two thousand linear feet of rip-rap or fill would be a huge visual distraction to the National Scenic River and ruin the recreational value of that section of the river in the same way the New East Ash Pit has become an eyesore.



1 No. 3, the proposed project would most 2 assuredly disturb the pair of eagles that have been 3 nesting near the site for a number of years that 4 paddlers have enjoyed viewing. How sad if the eagles 5 leave and do not return.

Page 66

6 And, No. 4, there is a real concern about the 7 amount of contaminated soil that would be released into 8 the water during the project. Will the proposed 9 turbidity curtain catch or hold back all contaminated 10 soil particles? These fears will prevent her family 11 including grandchildren from enjoying a usual summer 12 long activity in the river.

For these reasons I join Kris Camp in asking the IEPA not to approve Dynegy's application. Instead we can ask for a much less invasive streambank stabilization to be completed this summer with the future intention of the contents of all three coal ash pits being moved to a properly lined location away from any bodies of water. Thank you.

20 MR. NOREEN: In the interest of saving time, I 21 will not comment.

HEARING OFFICER STUDER: For the record that was Noreen, n-o-r-e-e-n, last name. David. Carolyn Trimble.



Page 67 1 MS. TRIMBLE: Good evening. I am Carolyn 2 Casady Trimble from Urbana, Illinois. Thank you for providing this opportunity for us all to talk about the 3 4 future of the Middle Fork. 5 HEARING OFFICER STUDER: Can you spell your 6 name for the record please. 7 MS. TRIMBLE: Pardon? 8 HEARING OFFICER STUDER: Can you spell your 9 name for the record? 10 MS. TRIMBLE: Carolyn Casady Trimble, 11 c-a-r-o-l-y-n, c-a-s-a-d-y, t-r-i-m-b-l-e. My family and I have been canoeing on the Middle Fork for more 12 13 than 40 years. I hope it will be available to my 14 grandchildren and great-grandchildren to enjoy. On a beautiful warm sunny day last July, my 15 husband and I took our canoe down the Middle Fork. 16 17 Despite a recent heavy rain, the water level was low. The river was full of people of all ages rafting, 18 swimming, splashing and wading in the river. 19 20 Unfortunately when we came to the section of 21 the bank near Dynegy, the clay of the bank was covered 22 with orange and red and other garish colors from what is leaching from the coal ash impoundments. 23 24 I didn't want to have any of that water on my



Page 68 skin or even on my canoe. I was amazed that there 1 2 seemed to be no safety warning for those enjoying themselves by splashing and swimming since we all know 3 4 that the chemicals leaching are hazardous to humans. 5 The proposed building up of the bank is not a 6 long term solution to the leaching. It will not make 7 the river safe to use, probably not in the short term 8 and certainly not in the long term. 9 The coal ash must be removed from the 10 floodplain and disposed of in a manner that will make 11 it impervious to earthquakes, huge rainstorms and other 12 natural disasters, as well as to any foolish acts of 13 humans. 14 Please accept only a solution that is really 15 a solution, able to ensure good water quality for this precious resource, our wild and scenic river. 16 Thank 17 you. 18 MS. DECLUE: Hi. My name is Mary Ellen DeClue, d-e-c-l-ue. I am from Litchfield, Illinois. 19 20 My concern is that Dynegy and prior coal utility owners do not consider protection of this river to be a 21 22 priority. In past public meetings, coal utility 23 24 representatives established clearly to me that profits



Page 69 were a priority over the health and safety of people, 1 2 children and fetuses. I heard statements like mercury 3 is not toxic. No one eats that many fish. 4 These responses were given to answer why the warning signs of mercury tainted fish consumption were 5 6 taken down at the Coffeen power plant several years 7 aqo. 8 I am disgusted that this manmade disaster has 9 progressed to the threatening extent that it has. I wonder if coal ash were classified as hazardous waste, 10 11 which it is, would there be millions of tons of toxic 12 coal ash sitting near rivers and in floodplains. I 13 would like to think that would not have happened. 14 The Middle Fork River cannot be replaced, but 15 the coal ash barrier can be displaced. The Middle Fork does not need to be fixed. It knows where to go and it 16 17 knows where it is going. The proposed rock pile does not fix anything. 18 The rock pile does not prevent contaminated runoff from 19 20 the coal ash -- the rock pile does not prevent groundwater contamination from coal ash leachate 21 22 entering the Middle Fork. The rock pile is not 23 permanent bank stabilization. 24 If this disaster is not addressed correctly,



Page 70 the Middle Fork will be lost to present and future 1 2 generations. The rock pile will make a scenic river into an unscenic river. The rock pile will damage the 3 4 natural beautiful design of the river. 5 HEARING OFFICER STUDER: 30 seconds. 6 MS. DECLUE: Illinois EPA must not approve 7 this inadequate and harmful proposal of Dynegy. Please 8 deny the 401 Water Quality Certification. Thank you. 9 HEARING OFFICER STUDER: Thank you. Philip 10 Hult. 11 MR. HULT: My name is Philip Hult, h-u-l-t. I 12 am formerly a member of the Board of Commissioners for 13 the Champaign County Forest Preserve District. 14 About 20 years I have been kayaking down the Middle Fork River. I have taken photos of toxic 15 16 chemicals leaching through the riverbank. I have taken 17 photos of the erosion. I have taken photos of the 18 former attempts at stabilization failures. 19 I have sent those to State officials, 20 Democrat, Republican, and nothing has been done in the 21 past so I thank you for being here. 22 One of the things that I am concerned about 23 is I read a report in the Illinois Water Survey. Ιt 24 says because of the climate change, we can expect



stronger rain events more often in the future. 1 2 Because of the geologic profile of the Middle 3 Fork, this river can rapidly rise as seen by going to 4 the U.S. Geologic Survey Water Gauge. 5 This shows that there would be rapid spikes 6 and high waters which would cause river closure to 7 kayakers making this a dangerous river. In the future 8 -- or the Illinois Water Survey says these events may 9 become more often and more damaging. 10 Using only past records in modeling flood 11 events could be a critical error. You must also make consideration for what could be more severe flooding 12 13 events in the future. The only way to permanently 14 protect water quality is to remove the coal ash from 15 the floodplain. Thank you. 16 HEARING OFFICER STUDER: We are going to take 17 a 5 minute break. (Whereupon a break was taken and the 18 19 deposition continued as follows:) 20 HEARING OFFICER STUDER: If we could go ahead 21 and go back on the record. Tony Heath. 22 MR. HEATH: Hi. My name is Tony Heath, t-o-n-y, h-e-a-t-h. I am a professional civil engineer 23 24 in the State of Illinois as well as a graduate student



at the University of Illinois in the Department of
 Urban and Regional Planning.

While I agree with almost everything that has 3 4 been said tonight about why this project should be 5 rejected because of increased erosion during 6 construction, increased erosion due to the constriction 7 of the channel post construction, and failure to 8 address the underlying issues, tonight I would like to 9 focus my comments on specifically the deficiencies in 10 the Section 401 application with regards to the 11 alternatives analysis and to provide additional 12 information regarding the extent of the failure of 13 previous bank hardening activities.

14 So as has been said already, Section 15 302.105.f.D states that the application for a project 16 such as this must include an assessment of alternatives 17 to proposed activities that would result in minimal 18 environmental degradation.

19 In this regard the application includes due 20 absolutely nothing, three different versions of bank 21 hardening activities and a proposed relocation of the 22 river.

What it doesn't consider is what goodpractice would consider the preferred alternative. For



Page 72

Page 73 your consideration, I have provided an excerpt from 1 2 Chapter 6 of the Bank Stabilization Design Guidelines as published by the U.S. Department of the Interior. 3 And on the second page of that Page 63, 4 5 Paragraph 2, it begins "methods in the preserving the 6 floodplain category are the most desirable". And then 7 it continues "hardening the banks is the least 8 desirable category of methods". 9 Then on the following page when discussing 10 methods for preserving the floodplain, the first and 11 most desirable of those is infrastructure relocation or 12 setback. And in this case that means bank 13 stabilization by moving the coal ash. I think it is clear to me and I think it is 14 15 clear to most of you why Dynegy hasn't even considered 16 this in their application so far. If they did, it 17 would be obvious that moving the coal ash is the best available alternative. 18 19 It minimizes impact on recreational and 20 commercial use of the river. It preserves ecological 21 function and best achieves the goal of this project which is to protect the Middle Fork from the risks 22 associated with having the 3 million cubic yards of 23 24 coal waste in its floodplain.



Page 74 1 When we look beyond just the upfront cost and 2 consider not only the maintenance and eventual placement costs of a rip-rap system, but the costs 3 4 associated with ongoing health effects, negative 5 impacts of local wildlife and most importantly the 6 risks associated with a potential --7 HEARING OFFICER STUDER: 30 seconds. 8 MR. HEATH: Moving the ash is the best 9 solution for residents of Vermilion County, the State 10 of Illinois and even for Dynegy itself. 11 The second thing I would like to bring your 12 attention to is that all of the representative site 13 photos were taken in late April when the water level was at its highest and exclusively from the west bank 14 which doesn't show the condition of the bank in the 15 16 river at all. 17 If you would look at the photos, it looks pretty pristine. What you see from the opposite side 18 of the river or the river itself, you can see entire 19 20 sections that have been ripped away or that slump in 21 place. Thank you. 22 HEARING OFFICER STUDER: We are out of time. 23 MR. HEATH: This doesn't meet the requirements 24 under Title 35. Thank you.



Page 75 1 HEARING OFFICER STUDER: Suzanne Smith. Go 2 ahead. 3 MS. SMITH: Suzanne Smith; s-u-z-a-n-n-e, s-m-i-t-h. I believe Dynegy's current plan has a high 4 5 probability of disturbing and suspending contaminated 6 soils and sediments into the stream that could degrade 7 water quality and redistribute coal ash sediments 8 downstream. 9 So I am here tonight to tell you a story 10 about a little girl. I have been part of a RiverWatch 11 team for 8 years collecting macro invertebrates (mainly bugs) from the Middle Fork near the take-out for 12 13 paddlers and tubers near the concessionaire. 14 We count the bugs and multiply them by their numerical value to determine a biotic index that 15 16 reflects water quality. 17 According to RiverWatch stream quality indexes, the Middle Fork is overall a healthy stream 18 which suggests conservation efforts have paid off in 19 20 good water quality and healthy biotic communities 21 noting coal ash impairments upstream --22 HEARING OFFICER STUDER: Can you slow down 23 for our court reporter. MS. SMITH: We always looked forward to 24



Page 76 meeting people and wildlife on sampling days. 1 While on one occasion a Mom came down to the river with her 2 children and asked what we were doing. 3 4 They were all excited to see the bugs, 5 crawdads and fish in our bucket and the proceeded to 6 play in the riffle that extends over halfway across the 7 They collected rocks from the riffle to build stream. 8 a little cage and enjoyed exploring the stream for 9 critters. 10 At one point our team looked up to see this 11 little girl maybe 5 or 6 years old floating suspended on her back in the riffle, her head upstream with the 12 13 water washing over her arms, her legs and her body. She laid there for a long time, immersed in the stream, 14 15 lost in her thoughts. 16 I want you to remember this little girl when you make your decision about this project. Will the 17 cap and run idea keep the river water and substrate 18 19 clean and safe? 20 Will it protect this little girl, others like her and the wildlife that surrounds her from toxic coal 21 22 ash in the short and the long run? 23 At a time when the world is in crisis, our 24 nation is debating tough political issues and our state



Page 77 struggles with an identity crisis, we desperately need 1 2 to protect clean green spaces that give us peace and solace. Places like the Middle Fork River. 3 4 Like that little girl, we need to be able to immerse ourselves, sometimes literally or figuratively 5 6 in the haven of the Middle Fork valley. This National 7 Wild and Scenic River affords extensive free public 8 access to nature. 9 HEARING OFFICER STUDER: 30 seconds. 10 MS. SMITH: I implore the IEPA to protect this 11 river from potential catastrophe. This is not a time 12 to compromise. 13 You need to make the best decision to ensure 14 that all people and all wildlife that encounter this river can safely interact with the wilderness of this 15 place for all time. 16 17 I support a complete coal ash removal plan with immediate temporary bank stabilization at critical 18 19 erosion points. Thank you very much for your time. 20 HEARING OFFICER STUDER: Okay. Stuart Levy. 21 MR. LEVY: I am Stuart Levy; s-t-u-a-r-t, l-e-v-y. And I would like to make two points. 22 There was a previous stabilization plan as we know. And it 23 24 has now pretty much degraded -- (inaudible).



Page 78 So my question is: How does the plan provide 1 2 for long term maintenance of the solution? Can they estimate funding, ongoing funding to perform that 3 maintenance? 4 This isn't just a solution for this year. 5 We don't want, you know, if you include a solution and in 6 7 20 years it is unmaintained and it fails and dumps a 8 large amount of coal ash on the river -- (inaudible). 9 Second, whatever approach you approve, the 10 National Park Service will also need to approve it to 11 ensure that it protects the value of the river as a 12 national state waterway. 13 So I think the Illinois EPA should consider 14 what will happen next. The Applicant hasn't offered 15 any plan as far as I have heard for temporary protection of the river -- (inaudible). 16 So if you reject this one or if the National 17 18 Park Service does, then -- (inaudible.) And through the whole time that was being prepared and considered, 19 20 the ash pile is going to be undermined by some spring flood water. 21 22 HEARING OFFICER STUDER: 30 seconds. 23 MR. LEVY: So I suggest an alternative --24 (inaudible). The Applicant should be asked to provide



Page 79 an alternative that doesn't impair the use of our 1 2 National Scenic River. Thank you. 3 HEARING OFFICER STUDER: Thank you. Mr. 4 Williams. 5 MR. WILLIAMS: Good evening. My name is 6 Rickey Williams. R-i-c-k-e-y, w-i-l-l-i-a-m-s. I am 7 the mayor of the City of Danville. 8 And recently the City council unanimously 9 passed an ordinance not only requesting this hearing, 10 but asking you to come up with a realistic solution, a 11 long term solution -- (inaudible). 12 There are a couple of concerns that we have. 13 We have many endangered species. That is something that we have to consider. Not only the animal and 14 marine life, plant life --15 16 HEARING OFFICER STUDER: Can you slow down for 17 the court reporter? MR. WILLIAMS: What about the marine life and 18 19 other animal species that we have that are endangered 20 in this area. Second of all, we have concerns for 21 recreational opportunities. We have just removed the dams here in our community so that we can have access 22 to the entire river. Soon we will be able to float 23 down the entire river. And this is in jeopardy. 24



Page 80 1 And finally we have to talk about the 2 economic concerns for us. We are in the process of building some trails and other recreational 3 4 opportunities right along the river. 5 By failing to move the coal ash, it puts all 6 that in jeopardy. We have tourism that would help fund 7 a lot of the things we need here. So the only solution 8 from the perspective of the City of Danville is to move 9 the coal ash. We ask you to do that. 10 HEARING OFFICER STUDER: Thank you. 11 MR. REHN: There is a bus leaving at 8:30. 12 Please be on the bus by 8:30. With that, my name is 13 Andrew Rehn, r-e-h-n. I work for Prairie Rivers 14 Network, a non-profit that works to protect water. Thank you for holding this hearing and taking 15 the time to listen to public input. I hope you can see 16 17 that this river is loved deeply by this community and our goal is to see it and the land protected for our 18 19 children's children. 20 We ask that the Illinois EPA deny this water quality certification on the basis that the, one, 21 22 alternatives analysis is incomplete; two, the water quality certification does not consider recreation 23 24 impacts as required, and, three, the Agency has not



demonstrated that the project has adequate
 sedimentation controls.

We encourage Dynegy and the many regulatory agencies to explore a targeted and temporary bank stabilization effort that does not leave a scar on the river.

7 HEARING OFFICER STUDER: You are going too8 fast.

9 MR. REHN: I am going to be asking some 10 questions and give someone else a chance to speak. So 11 if that is okay, I would like to ask Darren why the 12 removal of the coal ash was not considered --

MR. GOVE: For your information that information has been (inaudible) that the alternatives analysis be augmented to include that alternative. That has already been done.

MR. REHN: Okay. They didn't include itbecause?

MR. GOVE: Originally it was not included because they did not provide it with their alternative analysis.

MR. REHN: Okay. Thank you for that. What is
the life span of the project?
MR. GOVE: It is, the project is designed to



Page 81

Page 82 be maintained. Like I said, there is a proposal to add 1 2 maintenance and provide a maintenance plan which predicted that with small additions of maintenance work 3 on an as-needed basis, it could be maintained in 4 5 perpetuity. 6 MR. REHN: Is there any way to make sure that 7 would happen? 8 MR. GOVE: No funding information was 9 provided. 10 HEARING OFFICER STUDER: We are out of time. 11 MR. REHN: Thank you. 12 MS. WASSERMAN: My name is Naomi Wasserman. 13 N-a-o-m-i, w-a-s-s-e-r-m-a-n. So I am a nature enthusiast and also a PhD student at the University of 14 Illinois. 15 16 Obviously I don't speak for my department, 17 but my research examines the chemistry of toxic metals and metalloids in natural environments and built ones 18 19 such as coal ash impoundments. 20 My specific area of research focuses on the 21 effect of redox conditions on the mobility of certain 22 elements like selenium, antimony, chromium, mercury and arsenic which are commonly enriched in the coal 23 24 combustion process as you all know.



Page 83 1 So while elevated concentrations of these 2 elements are not detectable in the midstream area of the river, this does not mean that these elements are 3 4 not leaching from the coal ash pond. A common characteristic of these elements 5 6 like selenium, arsenic and antimony is that their 7 solubility is controlled by the redox conditions of the 8 environment that they are in. 9 So in more oxygen rich environments, these 10 elements are relatively soluble and are transported by 11 flowing groundwater or surface water. In less oxygen 12 rich environments, these elements precipitate in solid 13 forms and become less bioavailable to us and other animals. 14 15 These redox sensitive elements may have 16 precipitated as they encounter oxygen poor conditions 17 in the groundwater flowing from the coal ash ponds to the riverbanks. 18 19 This potential scenario is relevant to this 20 public comment hearing as disturbance of the sediment will almost certainly introduce oxygen into previously 21 22 anoxic environments mobilizing potentially toxic metals and metalloids that were insoluble previously into 23 24 Illinois' only natural scenic river.



Page 84 1 So no one to my knowledge has examined the 2 geochemistry of the riverbank sediment or groundwater before it reaches the seeps. Therefore we don't know 3 4 how much reduce arsenic and --5 HEARING OFFICER STUDER: 30 seconds. 6 MS. WASSERMAN: And we also don't know if 7 groundwater flow paths from the coal ash ponds could be 8 significantly altered by the addition of coarser 9 material to the riverbank possibly changing the redox 10 conditions of the groundwater that is flowing from the 11 coal ash ponds into the river. 12 So to fully assess the environmental impact 13 of this proposed stabilization, I ask if these effects on the geochemical state of the riverbank have been 14 15 considered before granting the 401 water quality certification. 16 Thank you. 17 HEARING OFFICER STUDER: Okay. Go ahead. MR. BULLARD: My name is Clark Bullard, 18 c-l-a-r-k, b-u-l-l-a-r-d. I timed this 2 minutes. 19 Ι 20 can slow it down a little bit for the reporter. 21 I am an engineering professor at the 22 University of Illinois. I have canoed the Middle Fork hundreds of times over the last 50 years. 23 24 I ask you to reject this project. First, the



bank stabilization is a means to no end. Not an end in
 itself. I have seen that raging river rip shore trees
 from the banks.

Page 85

Imagine a tree weighing as much as a fully loaded semi trailer truck demolishing Dynegy's flimsy silt curtain and crashing at a speed of 5 to 10 feet per second into the exposed parts of the bank.

8 If it doesn't happen during construction, it 9 will certainly happen eventually. Rip-rap or not. 10 That is the real reason to (inaudible) the river's 11 quality and recreational value. Common sense calls for 12 prevention and fortunately so does the State's 13 antidegradation regulation.

14 The real reason they need emergency rip-rap 15 is to enable construction of an access road. Then they 16 need the road so they can construct (inaudible) around 17 the embankments which they assume will withstand 18 whatever the river throws at them.

A better alternative is missing. It would start on the uphill side. Remove the ash first, then remove the embankment. Then remove any contaminated soil. And finally remove what is left of the gabions that are currently between the river and the ash ponds. Dynegy's proposal is backwards. It starts by



Page 86 removing the gabions and ends by leaving the ash in 1 2 forever. Finally, it is up to you as guardians of our tax dollars to remove the ash now while they still have 3 stockholders to pay for it. 4 5 The stockholders accepted this risk when they 6 bought into the abandoned plant and the ash. Don't let 7 them get away. It is not fair to the taxpayers who pay 8 your salary or to the next generation of taxpayers who 9 will inherit liability. 10 HEARING OFFICER STUDER: Okay. Thank you. 11 MS. DZIALLO: My name is Anna Mae Dziallo, 12 a-n-n-a, m-a-e, d-z-i-a-l-l-o. Thank you, first of 13 all, for listening to all of us here tonight. There is a lot of us here. 14 I am president of Fossil Free UIUC, formerly 15 Beyond Coal. I am a senior at the University of 16 17 Illinois. Although we have all benefited from a carbon based economic system, it is critical to take 18 responsibility for cleaning up harmful byproducts. 19 20 In line with this responsibility, the EPA 21 must not allow Dynegy to go through with this project. 22 Countless U of I students enjoy the Middle Fork River and even rent buses to bring busloads of students over 23 24 to enjoy kayaking and hiking and more.



Page 87 It is one of the few local areas of nature 1 2 that we can enjoy on campus at the U of I. And the bank stabilization project is not a long term solution 3 4 to protect this cherished resource. 5 Future generations will be forced to endure 6 health and environmental degradation from toxic coal 7 ash contamination if Dynegy has their way and the 8 project proceeds. 9 The three pits in total could fill the New 10 York Empire State Building two and a half times. And I 11 say that and I know I am talking about coal ash, but 12 all of the five alternatives proposed by Dynegy fail 13 me, my peers, your children and your grandchildren. 14 And it fails to resolve the current toxic seepage as well from all the coal ash. 15 16 Bank stabilization is a short term solution for a long term potentially generational ecological, 17 social and economic problem. 18

We do not have to settle for this. You can take action to prevent these issues by refusing Dynegy's bank stabilization project which would dredge up to 8 feet of the riverbed and release toxic chemicals down the stream. I urge you to decline on behalf of the future generations, my kids, your kids



Page 88 and U of I students. Thank you. 1 2 HEARING OFFICER STUDER: Okay. Thank you. 3 MR. McCOLLUM: I am Dan McCollum. D-a-n, 4 m-c-c-o-l-l-u-m. I am a lifelong resident of East 5 Central Illinois and I have been an active canoer for 6 50 years. I am downstream --7 HEARING OFFICER STUDER: Can you speak into 8 the microphone? 9 MR. McCOLLUM: I am a downstream landowner and 10 I have owned the land for 45 years. I have been around 11 here a long time. I am quite familiar with the area. 12 (Inaudible.) 13 HEARING OFFICER STUDER: Move your mike 14 closer. 15 MR. McCOLLUM: I remember my first canoe ride. That was impressive. (Inaudible.) Now I have also 16 17 canoed the river when ice was in the river. And we would canoe that river 10 years later (inaudible) it 18 would be flat. We also know (inaudible) we have 19 20 climate change that will expose the water that flows 21 down the river. So, anyway, I don't think the plan will work. 22 HEARING OFFICER STUDER: Hold it close. 23 24 MR. McCOLLUM: My observations confirm the



Page 89 fact that the previous stabilization has simply not 1 2 worked. HEARING OFFICER STUDER: We will attempt to 3 make the acoustics better. 4 (At this time a short break in the 5 6 proceedings was had.) 7 HEARING OFFICER STUDER: Rebecca Vining. 8 MS. VINING: My name is Rebecca Vining. I am 9 here today representing Students for Environmental 10 Concerns which is the University of Illinois's largest 11 and oldest environmental organization. 12 And I am here today as a student. And I 13 can't say a lot fact wise that hasn't already been 14 said. I am not an engineer. I am not an environmental 15 planner. 16 But what I can say is that I am pretty young 17 and most people in this room are not going to be fighting the next fight. It will be our turn to do the 18 19 same thing. 20 And what I want to say is urge you to 21 consider a solution that doesn't make it so we have to 22 -- I don't want to stand here in 20 years and have to tell you that the bank stabilization failed a second 23 24 time.



Page 90 1 The maintenance plan is not going to cut it. 2 Dynegy is not permanent. I don't think this plan acknowledges the fact in 20 years I might still be 3 4 sitting here, but they probably won't be. That is all. 5 Thank you. 6 HEARING OFFICER STUDER: Donald Davis is he 7 here? He is not? Okay. Betty Sexton, is she here? 8 No? Okay. Rebecca Vining? That was her, okay. Pam 9 -- Jan, I am sorry. 10 MS. PREDMORE: Hello. I am a person who is a 11 citizen -- my name is Jan Predmore, p-r-e-d-m-o-r-e. I 12 have spent the last 44 years (inaudible). I have spent 13 plenty of time there. And I would like to talk about the 14 15 stabilization in relation to the river. I agree by and 16 large with what most of my compatriots have said, but the river is at risk with contaminants in the water. 17 It also has a right to exist by itself. 18 19 The so-called bank stabilization is not 20 stable. It is not a bank. The pile of junk that is 21 there is an obstruction. It has been put there short 22 of 50 some years ago and it has been built up and added

24 rubble. It is a pile of dirt and it is a pile of ash.

to, but that is not the bank. That is a pile of

23



Page 91 1 The river needs its floodplain back. So I am 2 here to urge you to give the river its (inaudible). Return it to the river. It is going to take it anyway 3 in the long run. We all know that. 4 5 So I am here to support removal of the coal 6 ash as was described in previous statements. And I 7 just want to say free the floodplain, let the river 8 stay and protect the water for all life forms who live 9 and enjoy this river. Thank you. 10 HEARING OFFICER STUDER: Thank you. Alice 11 Englebretsen? Alice? She is not here. Rob Kanter. 12 He is gone. Mary Lambert? She is not here. Nancv 13 Goodall. No? Susan Misner. She is here. While she is coming to the podium, is Vince here? You will be 14 after Susan Misner. 15 16 MS. MISNER: Hi. Can you hear me okay? I am 17 Susan Misner, m-i-s-n-e-r. I am a resident of 18 Rossville, a small town north of here. 19 I want to appeal to you to reject the Dynegy 20 proposed certification as it is currently proposed. That is because alternative options would better 21 22 contain the risk to public health from the likely 23 pollution of the affected waters under the present 24 certification proposal. Especially given the estimated



1 rate of 2.3 feet per year erosion of the banks of the 2 river and downstream sedimentation of the affected 3 waters.

Page 92

4 Under the rules of the Clean Water Act, 5 conditions must be placed for any certification to 6 protect affected waters including avoidance of risk to 7 public health, harm to fish, impairment of recreational 8 uses, depress property values and offenses to the 9 senses. These will occur and I think it is good to 10 know and reiterate it throughout these hearings.

11 The current proposed certification 12 compromises each of these areas. My concern for the 13 safety of water quality is both personal and 14 professional.

I am a grandmother and I take my grandchildren to use the State's recreational resources that includes sections of the Middle Fork River. But as you can see the construction of these areas are potential safety hazards.

20 The berms may -- for example, boaters may be 21 swept by river currents to the bank. Also the proposed 22 berm materials would permanently detract from the 23 river's natural beauty and offend the senses. 24 And I just want to note that I believe that



1 on the basis of the (inaudible) that this certification
2 is not in compliance with the statutory mandates of the
3 relative sections of the Clean Water Act.

Page 93

But I also am a professional nurse. I have
been a registered nurse in Illinois for 48 years.

6 HEARING OFFICER STUDER: We are running up 7 against the time limit.

8 MS. MISNER: I care for patients with tragic 9 outcomes from chemicals found in coal ash including 10 lead, arsenic, mercury and radium.

11 These risks from potential contaminations 12 leaching into the Middle Fork River during flooding and 13 erosion cannot be allowed. And I just want to also say 14 that there are alternatives that have been delineated 15 today.

16 The EPA in collaboration of other federal 17 agencies has a mandate for cradle to grave management 18 scheme for hazardous wastes to ensure that these wastes 19 are not mismanaged in a manner that will impact human 20 health or the environment.

I hope that you will seriously consider
rejection of the current proposal and review
alternative options. Thanks for this opportunity.
HEARING OFFICER STUDER: Thank you. Vince



1 Koers.

2 MR. KOERS: Vince Koers, k-o-e-r-s. When Jim 3 Thompson petitioned the Secretary of Interior to 4 include this river in the Wild Scenic River program, he commissioned the State of Illinois to follow the 5 6 federal law. 7 Since that time the State managing agencies, 8 the Illinois Department of Natural Resources and the 9 IEPA have repeatedly and wantonly ignored the 10 requirements of federal law that were imposed upon the 11 State in return for the designation. 12 With the Wild Scenic River Act implementation 13 in 1968, the purpose that was spelled out to protect the free-flowing river which is defined as one that has 14

15 totally natural banks without rip-rap or other

16 modifications.

17 The Federal Register at the time spelled out 18 under the water quality regulation, water quality river 19 areas will be maintained or improved to levels which 20 meet federally criteria or federally approved State 21 standards.

Today the river does not meet those standards and haven't for some time. River managers will work with local authorities to abate activities within the



Page 95 river areas which are degrading or which would degrade 1 2 water quality. That hasn't happened either. Thus with IDNR and IEPA as the river managers 3 4 under the Wild Scenic River Act, IEPA is directly 5 responsible to not only maintain the water quality, but 6 to restore it to its natural purity. 7 That means IDNR and IEPA have a positive 8 responsibility under the Wild and Scenic River Act to 9 not only to stop the pollution, but to correct and 10 restore the river water quality. 11 Leaving the leaking waste in place to further 12 pollute the river is not an option under the law. Thus 13 dealing with the coal ash waste is an essential element 14 of maintaining and improving water quality. 15 IEPA has failed repeatedly to protect the river from contamination in violation of the Wild and 16 17 Scenic Rivers Act and has been complicit repeatedly in allowing the emplacement of various bank protection 18 schemes that are specifically disallowed by the Wild 19 20 and Scenic River Act. It is time for this ignoring of federal law 21 22 The Vermilion Middle Fork River site is to stop. unique in that it is the only site in the State that 23 has the Wild Scenic River provisions behind it to --24



Page 96 1 HEARING OFFICER STUDER: Time limit. 2 MR. KOERS: -- EPA not only contain the contamination, but to reverse it, cleaning the banks 3 4 and the river back to its natural condition. Thank 5 you. 6 HEARING OFFICER STUDER: Thank you. 7 MR. CHAMBERLAIN: My name is Lee Chamberlain, 8 c-h-a-m-b-e-r-l-a-i-n. I am a citizen of this 9 community. I am an educator in the county. 10 A couple of concerns that I would like to 11 bring up is with the wall being built and the 12 possibility of flooding, chemicals would obviously find 13 their way over, under, around or whatever. Water is going to find the path of least 14 15 resistance. That is just the way it is, okay. So the 16 other thing is that we are running the possibility of 17 risks of what Nebraska looks right now. It is a mess. So fortunately, you know, I don't know if 18 they have pollution going on, but where we are at, we 19 20 do and it needs to be taken care of. So some other things with major flooding, 21 22 obviously it would knock down the wall. I know Nebraska had some of their manmade stuff destroyed and 23 demolished. 24



Page 97 1 Some of the bigger pictures that we have too 2 is the risk of contaminating the State of Indiana along with other states that the river flows into and 3 4 eventually down to the Gulf of Mexico. 5 Also I am a father of a 6 year old daughter 6 who I am trying to get into fly fishing. Now I am 7 really kind of holding back on getting her in that 8 river and participating in that activity at least 9 locally with the concerns that it possibly would have 10 for her and I and my other family members. 11 So ultimately the wall is going to be a 12 temporary fix, but ultimately we need to get rid of the 13 coal ash. 14 HEARING OFFICER STUDER: Thank you. 15 MS. DeCELLE: My name is Sharon Decelle, d-e-c-e-l-l-e. I am here to ask the Illinois EPA to 16 17 not approve Dynegy's proposed solution of the riverbank stabilization. 18 19 So the problem as I see it is akin to putting 20 a band-aid on an infected wound. It just temporarily 21 hides it. Any coal ash left on that site next to a 22 river in a floodplain is going to be a problem. 23 For as long as the coal ash is there, it will continue to leak and leach into the river and into the 24



Page 98 groundwater. The only solution that solves the 1 2 pollution problem is to move the coal ash. So we the citizens of Illinois are relying on 3 4 the Illinois EPA to do their job. The only reason the 5 EPA exists is to protect the environment from needless 6 and avoidable damage. 7 We are asking the Illinois EPA to protect our 8 environment and to protect us, the people who live 9 here, from being poisoned for generations to come. 10 Poisoned by this huge pile of coal ash that 11 unless it is moved from the very unfortunate place 12 where it currently sits, will inevitably poison the 13 land and water in this area. 14 The problem is solvable. Move the coal ash 15 to a safe containment area. Allowing it to stay where 16 it is is reckless endangerment to the environment and 17 to the people who live here. Thank you. 18 MS. WILKEN: My name is Grace Wilken, w-i-l-k-e-n. I am a concerned citizen of Urbana and 19 20 graduate student at Eastern Illinois University. 21 I want to highlight and testify to the 22 dangers of wrecking our water quality with the heavy metals already discussed. This is particularly a risk 23 24 to humans involving cancers.



I spent two years teaching high school
 science in Southeast Kentucky in the beautiful
 Appalachian Mountains. A place very familiar with coal
 mining and its waste products. This is where some of
 the largest coal ash in the ground waters have occurred
 often under the radar.

7 During my time there I have never seen so 8 many teenagers with cancers and brain tumors in that 9 area. Even people there attributed it to the heavy 10 metals from the coal mining ash.

11 It also creates problems with agriculture. 12 We have acidic soil and water. We are first to buy 13 plastic bottled water which is a thousand times more 14 expensive and we ingest microplastics from the bottles.

We are so incredibly fortunate in this part of the country to have clean drinking water. I think it is extremely important that we protect that. And that you protect that as your Agency name suggests for all of us because it is a serious, serious health risk.

And once these are released into the environment, there is no putting them back. Capping the ash ponds and building a retaining wall will not adequately prevent coal ash from seeping into groundwater. Hardly in the short term, especially in



Page 99

Page 100 the long term in terms of decades and centuries for 1 2 future generations instead of years. Thank you. 3 HEARING OFFICER STUDER: Thank you. 4 MS. O'REILLY: My name is Rachael O'Reilly, r-a-c-h-a-e-l, o-'-r-e-i-l-l-y. I am a member of 5 6 Central Illinois Health Community Alliance. However, 7 my opinions are my own and not the foundation's. 8 I come to you also as a concerned Earthling. Please reject this 401 certificate. You tell us to 9 10 stick to the bank stabilization plan, but what better 11 way than to remove the poison that threatens it. 12 Please take heed from Nebraska. Take heed a 13 couple of months ago in California, these were 14 record-breaking floods that are happening this year. Just adding onto the record-breaking floods in the past 15 5 years. 16 17 We are at a crisis. The international data 18 suggests that we have 12 years not only to stop the 19 carbon emissions, but to omit them from our air. 20 These floods, it is very likely that a flood will happen here because of the warming of our planet. 21 22 97 percent of scientists agree that climate change is 23 not only real, but it is exacerbated by human activity. 24 So we come to you, we implore you, the gatekeepers of



	Page 101
1	justice, to please protect our sacred waters because
2	when it is time for you to meet your maker as we all
3	will, may sacred waters protect you. Thank you.
4	HEARING OFFICER STUDER: Thank you.
5	MS. BLUMENSHINE: Good evening. My name is
6	Joyce, j-o-y-c-e, Blumenshine, b-l-u-m-e-n-s-h-i-n-e.
7	I am one of those people that comes from far away, two
8	hours, and goes and enjoys being on the Vermilion River
9	with my husband.
10	It is a great day. We get a meal, buy gas
11	and I am hoping to bring my brother. So it is really
12	good that the IEPA is holding this hearing. Thank you,
13	Hearing Officer, and to everyone on the panel and all
14	who came out.
15	Because when I got here, it was a little
16	after 6 and for 2 whole hours the bleachers behind us
17	were filled. And now it is almost 3 full hours and
18	there is still a large group here and that is a
19	testimony to the concern of the public and also
20	testimony to your Agency. And I do thank you.
21	I will be brief. The Vermilion River, it was
22	clear in seeing the embankments of the river
23	(inaudible). You have heard that numerous times
24	tonight. It is also clear that the project can and at



Page	102
raye	ㅗᇇ고

some point will cause violations of surface water 1 2 quality standards and clearly will interfere with the assisted water usage. So it does not meet the 401 3 4 requirements. Thank you, Mr. Gove, for answering tonight 5 6 that, yes, your Agency has asked for coal ash 7 information from Dynegy. That is essential. What 8 happens here is going to be telling maybe for other 9 locations. So I know your Agency will review this 10 carefully. 11 You have heard from the public. We know that you will do as best. We ask you to do what is best for 12 13 this site that will actually restore the river. Thank 14 you. 15 HEARING OFFICER STUDER: Thank you. 16 MR. McLINDEN: I would like to thank all of 17 you for being here tonight HEARING OFFICER STUDER: Can everybody hear? 18 19 MR. McLINDEN: I would like to thank all of 20 you here, both the people at the table and the people 21 on the bleachers. 22 HEARING OFFICER STUDER: Can you spell your 23 name? MR. McLINDEN: L-y-n-n, m-c, capital 24



Page 103

l, i-n-d-e-n. You have heard a lot of specifics
 tonight. I may be the last speaker perhaps. I don't
 have prepared remarks.

I live in this area, Champaign to Danville, for 45 years. I have enjoyed walking along almost all of the Middle Fork River. And I love it and I think it is fair to say practically everyone behind me loves what Middle Fork has to offer the citizens of Champaign and Danville, Vermilion County, the region and the whole state.

11 The lands stretching north and south from 12 this coal ash area, these public lands will presumably 13 be enjoyed by citizens well into the future, I dare say 14 in perpetuity.

Perpetuity has been mentioned previously. I am not sure I have a technical definition on perpetuity. My understanding is it means forever. As far as the human mind can anticipate human beings enjoying the situation.

20 So with that I would like you to try to focus 21 in summary fashion going beyond all the technical 22 things that any people have knowledge that have been 23 presented to focus on the long range. Probably 24 Dynegy's plan will work for 5, 10, perhaps 20, maybe



Page 104 1 even 40 years. Is that perpetuity? I don't think so. 2 The public in the state, the county, the services and other entities that have invested in 3 4 caring for the future prosperity of our citizens will 5 be here much longer than this stabilization plan that 6 Dynegy has proposed. 7 I suggest you take a longer view and in your 8 conscience search and see if you can truly say does 9 Dynegy's plan satisfy stabilizing this in perpetuity. 10 I hope you will do the right thing. Thank you. 11 HEARING OFFICER STUDER: Thank you. Okay. 12 Anyone who registered to speak on cards I did not call 13 their name? 14 (No response.) 15 HEARING OFFICER STUDER: I appreciate everyone's patience here this evening. I thank you, 16 17 especially those that have been here since the start for your patience. 18 19 And more than that, I thank everyone here for 20 your time and your comments. Now this is what public 21 hearings are about. It is an opportunity for you to 22 express your comments on specific projects. I thank 23 you for that. 24 I will remind everyone that we are still and



Page 105 1 will continue to accept written comments through the 2 close of the comment period and we will also be accepting e-mail comments. 3 4 And I remind everyone that the written 5 comments sent by mail need to be mailed in sufficient 6 time to arrive at Illinois EPA headquarters by April 7 25. 8 The information on the hearing notice 9 contains how to submit written comments. Again, I 10 thank you. Thank you for your comments and thank you 11 for those that spoke. You did a hell of a job 12 presenting your comments to the EPA. Thank you. Give 13 yourself all a hand. This hearing is adjourned. (The hearing concluded at 9:06 p.m.) 14 15 16 17 18 19 20 21 22 23 24



	Page 106
1	REPORTER'S CERTIFICATION
2	
3	I hereby certify that the foregoing is a true and
4	accurate transcript of the Illinois EPA Hearing taken
5	on March 26, 2019, stenographically recorded by me and
6	reduced to typewriting at my direction.
7	
8	
9	
10	Becky L. Jessup, CSR
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	



		27 21 20 2 40 12	00 00 01 14 07 10	1602504224
A	activities 7:3 8:3	37:21 38:2 48:12	80:22 81:14 87:12	16:9 35:9 42:24
abandoned 86:6	14:17 16:10 27:8	81:4 93:17 94:7	93:14	78:14,24
<b>abate</b> 94:24	72:13,17,21 94:24	Agency 1:1 2:2,6	altogether 32:17	applicants 26:13
abatement/repair	activity 14:3,12,14	6:6,13 12:18	amazed 68:1	application 8:16
52:12	16:2 36:22 64:5,7	13:12 14:7 16:16	<b>amenity</b> 40:5,7	42:18,20 44:23
<b>abide</b> 21:18	66:12 97:8 100:23	35:3 42:17 80:24	<b>amount</b> 36:15 66:7	45:20 66:14 72:10
<b>able</b> 10:8 47:14	acts 68:12	99:18 101:20	78:8	72:15,19 73:16
49:6 62:12 68:15	actual 44:9	102:6,9	analyses 33:18	applications 7:17
77:4 79:23	Adams 22:5	<b>ages</b> 67:18	<b>analysis</b> 8:23 26:11	applied 65:7
abruptly 21:4	add 40:8 82:1	<b>ago</b> 32:23 33:3	26:20 28:2 72:11	<b>apply</b> 36:15 37:18
absolutely 72:20	added 90:22	48:24 52:6 56:20	80:22 81:15,21	appreciate 29:17
accept 9:5 17:12	adding 54:15	65:1 69:7 90:22	<b>Andrew</b> 4:13 80:13	29:18 47:7 56:8
68:14 105:1	100:15	100:13	ANDY 4:2	60:4 104:15
accepted 86:5	<b>addition</b> 30:6 53:12	<b>agree</b> 72:3 90:15	<b>anglers</b> 23:16 32:15	approach 37:17
accepting 8:13 9:1	59:20 84:8	100:22	animal 79:14,19	78:9
12:24 105:3	additional 72:11	agriculture 99:11	animals 83:14	appropriate 11:14
access 7:22 10:9	additions 82:3	<b>ahead</b> 6:2 22:13	<b>Anna</b> 4:16 86:11	12:3 17:7 37:18
15:18 24:22 77:8	<b>address</b> 9:16 10:1,6	71:20 75:2 84:17	announced 11:17	44:8 48:13 61:16
79:22 85:15	18:10 19:8 27:18	air 54:1 100:19	annoyed 60:7	approval 28:4
accessed 7:20	44:16 45:9,22	<b>akin</b> 97:19	<b>anoxic</b> 83:22	<b>approve</b> 23:3,21
accessible 51:5	72:8	alerted 56:14	answer 34:23 69:4	64:14 66:14 70:6
accidental 50:18	addressed 19:18	Alice 91:10,11	answering 102:5	78:9,10 97:17
accommodate	34:6 69:24	<b>Alicia</b> 3:18 47:4,6	anticipate 103:18	approved 23:6
18:20	addressing 56:5	48:24	anticipated 51:11	27:17 94:20
<b>account</b> 30:16	adequacy 38:21	allegedly 49:10	antidegradation	approving 58:6,6
59:22	adequate 34:13	Alliance 100:6	8:19,23 85:13	approximately
accurate 19:20	81:1	<b>allow</b> 10:10 11:23	antimony 82:22	6:23 14:21,24
106:4	adequately 99:23	19:5,7 43:10 54:5	83:6	15:10,14,15 16:3
accurately 19:16	adjacent 26:7	86:21	antique 13:6	43:7 47:9
21:10	33:19	allowed 93:13	Anti-Degradation	<b>April</b> 9:7,8,22 13:2
achieves 73:21	adjourn 17:10	allowing 18:16	26:5,11	17:13 74:13 105:6
acidic 99:12	adjourned 105:13	95:18 98:15	anyway 88:21 91:3	aquatic 11:8 13:14
acknowledges 90:3	administrative	allows 23:9	apologize 21:1	28:17
acoustics 89:4	7:14,16 8:2,4,20	alteration 52:21	38:15	arbitrary 59:15
act 6:18 8:8 13:24	19:12	altered 32:19 84:8	Appalachian 99:3	area 1:14 27:12
27:11 36:2 45:14	advancing 26:7	alternate 20:16	appeal 91:19	30:20 31:1 32:17
58:17 61:8,17	Adventures 61:19	alternative 26:22	appearance 32:18	32:20 36:8,12
92:4 93:3 94:12	adverse 63:17	28:2 42:21,23	APPEARANCES	37:1 39:21,23
95:4,8,17,20	advice 13:12	43:1,6,10 44:4	2:1	41:1 46:5,11,15
Acting 6:6	advised 34:12	45:6 72:24 73:18	appears 17:14	50:20 51:18 53:8
action 8:15 17:10	affect 37:5 57:11	78:23 79:1 81:15	63:19	55:7 56:13,18,22
26:20 45:1 46:22	afforded 11:12	81:20 85:19 91:21	applauding 30:10	56:23 57:2,14,15
46:23 87:20	affords 77:7	93:23	applause 17:6	57:16 65:4,15
actions 12:1,4	Afterward 32:18	alternatives 11:13	30:12 59:15	79:20 82:20 83:2
active 88:5	age 49:8	26:11,15,19 42:21	applicable 20:9	88:11 98:13,15
	agencies 27:20	44:24 72:11,16	<b>applicant</b> 6:18 16:6	99:9 103:4,12
	•	•	•	



	_		_	
areas 17:3 39:15	97:13,21,23 98:2	Avenue 2:2 10:4	25:22 86:18	102:21
87:1 92:12,18	98:10,14 99:5,10	avoid 18:1 32:17	basically 51:14	Blumenshine 5:3
94:19 95:1	99:22,23 102:6	avoidable 98:6	60:6	101:5,6
<b>ares</b> 44:14	103:12	avoidance 92:6	<b>basis</b> 11:7 35:2	<b>board</b> 7:22 8:6 23:2
argue 19:5	asked 11:18 18:22	awakening 55:17	80:21 82:4 93:1	23:3,6 45:12
arguments 46:20	76:3 78:24 102:6	aware 38:14 50:24	basket 14:24	70:12
armory 23:8	asking 27:15 55:24	awesome 55:15	baskets 16:5	boaters 92:20
<b>arms</b> 76:13	66:13 79:10 81:9	<b>a-l-i-c-i-a</b> 47:7	battle 53:2	bodies 41:15 66:19
Army 7:4 16:20	98:7	<b>a-n-n-a</b> 86:12	<b>bears</b> 38:17	body 20:9,12 35:4
34:9,11,16	aspect 63:4		beautiful 67:15	76:13
<b>arrive</b> 105:6	assess 84:12	B	70:4 99:2	<b>born</b> 52:7
arsenic 29:8 57:4	assessment 26:5,15	<b>B</b> 31:24	beauty 55:8 92:23	<b>boron</b> 29:9 57:5
63:7,10,13,14,18	72:16	back 36:9 49:22,23	Becky 1:13 106:10	63:7
63:19 82:23 83:6	Assessments 26:12	53:17 66:9 71:21	<b>bed</b> 33:21	Borrowing 45:15
84:4 93:10	assist 51:10	76:12 91:1 96:4	began 14:11	botanist 44:13
Arthur 3:14 40:9	Assistant 2:7	97:7 99:21	begins 73:5	bottled 99:13
artificial 61:9	assisted 102:3	background 19:14	<b>behalf</b> 6:6 87:24	bottles 99:14
<b>ash</b> 11:14,20 12:1,3	associated 11:21	29:10	beings 103:18	<b>bought</b> 47:9,13
12:8 23:7 25:14	12:8 27:8,20 34:5	backwards 85:24	beliefs 23:14	86:6
26:1,7 27:1,4,11	73:23 74:4,6	<b>bad</b> 43:22 54:14	<b>believe</b> 26:10 33:4	boulders 15:10
27:13,22 28:3,5	association 20:12	62:7	49:12 59:10 75:4	43:8 48:3
28:16 29:1,4 31:4	associations 20:10	<b>band-aid</b> 45:18	92:24	<b>bowl</b> 40:22
32:1,12 33:8,19	<b>assume</b> 35:8,10	58:24 97:20	belongs 32:22	Box 2:3 10:5
33:21 36:9 38:6	85:17	<b>bank</b> 6:23 14:22	<b>benefit</b> 19:13 20:15	<b>boy</b> 49:2
41:23 42:10 43:2	assuredly 66:2	15:12,15 23:8	benefited 86:17	brain 99:8
43:4,5,11,18,20	astonishing 42:24	27:5,16 28:5	<b>berm</b> 36:8 92:22	branch 49:13
43:21,22,23,24	as-needed 82:4	29:21 32:8 33:20	<b>berms</b> 26:8 92:20	break 10:13 71:17
44:1,5,9,17,20	attempt 17:15 89:3	35:16 36:1,5 38:7	Bernoulli 36:14	71:18 89:5
45:4,23 48:14	attempts 52:24	38:21 42:3 49:17	<b>best</b> 23:7 32:9 39:8	breakdown 65:3
49:20 50:4,13	70:18	64:4 65:9 67:21	39:21 45:8,16	Brian 2:8 13:13
53:14,22,23 54:1	attend 64:19	67:21 68:5 69:23	47:24 49:17 73:17	brief 12:21 46:12
54:6,13 56:3,7	attendance 17:20	72:13,20 73:2,12	73:21 74:8 77:13	101:21
57:4 58:4,12 60:8	19:7 21:16	74:14,15 77:18	102:12,12	briefly 63:10
60:23 63:6 64:2	attending 17:8	81:4 85:1,7 87:3	<b>better</b> 41:6 85:19	<b>bring</b> 28:15 55:7
64:24 65:23 66:17	attention 74:12	87:16,21 89:23	89:4 91:21 100:10	56:21 57:1 74:11
67:23 68:9 69:10	<b>Attorney</b> 11:18,23	90:19,20,23 92:21	Betty 22:7 90:7	86:23 96:11
69:12,15,20,21	attraction 30:18	95:18 100:10	beyond 6:3 15:21	101:11
71:14 73:13,17	attributed 99:9	banks 27:19 43:8	74:1 86:16 103:21	brings 28:9
74:8 75:7,21	<b>Audience</b> 20:21,23	46:21 53:11 60:15	<b>bigger</b> 97:1	brother 101:11
76:22 77:17 78:8	30:10	73:7 85:3 92:1	biggest 50:14	brother-in-law
78:20 80:5,9	augmented 81:15	94:15 96:3	<b>bike</b> 28:23	28:20
81:12 82:19 83:4	authorities 94:24	barium 29:8	bioavailable 83:13	Bruce 3:6 22:16
83:17 84:7,11	authority 14:1	barrier 69:15	biologist 13:14	23:23 24:1 60:21
85:20,23 86:1,3,6	authorized 7:3 17:9	barriers 51:2	<b>biotic</b> 75:15,20	<b>bucket</b> 76:5
87:7,11,15 90:24	available 11:2	base 51:17,22	<b>bit</b> 60:7 61:2 84:20	<b>bugs</b> 75:12,14 76:4
91:6 93:9 95:13	51:10 67:13 73:18	based 8:1 21:1	bleachers 101:16	<b>build</b> 76:7
			1	1



Ρ	ag	je	3

		l		1
building 68:5 80:3	canoers 23:17	certification 1:6	cherished 87:4	<b>closer</b> 88:14
87:10 99:22	canoes 37:2 47:13	6:12,17,18,21 7:2	Chicago 55:6	closes 9:23 17:24
<b>built</b> 49:4 82:18	59:6 61:18,21,22	7:2,7,17 8:1,15,16	children 28:19 37:2	closing 36:24
90:22 96:11	<b>cap</b> 76:18	10:21,22,24 11:6	47:12 49:7,7,8	closure 11:14,20
<b>Bullard</b> 4:15 84:18	capacity 13:19	11:7 12:14,19	56:21 69:2 76:3	12:4,8 26:8 44:9
84:18	35:14	13:23 14:8,8,11	80:19 87:13	71:6
bulletin 46:8	capital 102:24	16:16,17,23 17:4	children's 80:19	coal 11:14,20 12:1
Bureau 13:20	Capping 99:21	21:20 24:13 26:14	chlorine 57:5	23:7 25:14 26:1
bureaucracy 41:5	<b>carbon</b> 86:17	29:20 31:14 33:6	chosen 56:23	27:1,4,22 28:3,16
<b>bus</b> 80:11,12	100:19	39:12,18 42:19	chromium 29:9	29:1,4 31:4 32:1
<b>buses</b> 86:23	carcinogen 63:22	44:3,24 45:21	63:7,10,21 82:22	32:12 33:8,21
businesses 57:15,18	carcinogens 63:12	55:24 59:14 70:8	church 52:9	36:9 38:6 43:2,4,5
busloads 86:23	cards 21:2 22:12	80:21,23 84:16	<b>Cindy</b> 3:22 54:18	43:11,20,21,23
<b>buy</b> 99:12 101:10	104:12	91:20,24 92:5,11	54:20	44:1,5,8,17,20
<b>buys</b> 53:14	care 55:2,22 93:8	93:1 106:1	circumstances	45:4,23 47:1
byproducts 86:19	96:20	certified 29:7	58:19	48:14 49:20 50:4
b-l-u-m-e-n-s-h-i	carefully 102:10	certify 106:3	<b>circus</b> 42:6,7	50:13 53:14,22,23
101:6	caring 104:4	Chamberlain 4:22	citizen 20:13 35:20	54:1,6,13 56:3
<b>b-u-l-l-a-r-d</b> 84:19	<b>Carolyn</b> 4:6 66:23	96:7,7	40:10 44:12 56:13	57:3 58:4 60:8,23
	67:1,10	Champaign 25:22	90:11 96:8 98:19	63:6 64:2,24
C	carrier 9:20	33:15 38:13 70:13	citizens 29:19	66:17 67:23 68:9
Cade 4:5 64:15,16	Casady 67:2,10	103:4,8	32:24 55:3 98:3	68:20,23 69:10,12
64:16	case 11:19 12:5,6	<b>chance</b> 81:10	103:8,13 104:4	69:15,20,21 71:14
<b>cage</b> 76:8	17:11 73:12	change 36:18,22	City 31:8 79:7,8	73:13,17,24 75:7
California 100:13	catastrophe 44:2	59:7 60:20 70:24	80:8	75:21 76:21 77:17
call 18:7 20:1,3,5,5	77:11	88:20 100:22	civil 71:23	78:8 80:5,9 81:12
104:12	catastrophic 27:19	changes 64:21	Clark 4:15 84:18	82:19,23 83:4,17
called 40:11	<b>catch</b> 66:9	changing 84:9	classified 69:10	84:7,11 86:16
calls 43:6 85:11	category 73:6,8	channel 27:10	<b>clay</b> 67:21	87:6,11,15 91:5
<b>calm</b> 49:14	caught 49:13	28:24 36:8 39:20	<b>clean</b> 6:18 8:8	93:9 95:13 97:13
Camp 64:18 66:13	cause 8:7 25:7	42:22 64:22 65:16	13:24 36:2 45:13	97:21,23 98:2,10
campus 87:2	61:17 63:13,13	72:7	76:19 77:2 92:4	98:14 99:3,5,10
cancer 45:16 58:24	64:22 71:6 102:1	<b>channels</b> 39:23,24	93:3 99:16	99:23 102:6
63:13,13	caused 8:3,5	Chapter 73:2	cleaned 29:12,24	103:12
cancers 98:24 99:8	causes 28:9	character 38:24	cleaning 86:19 96:3	coarser 84:8
canoe 47:14,17	causing 53:9	39:10	cleans 31:4	Code 7:14,16 8:2,5
48:8 49:6,8,13	<b>cell</b> 13:5	characteristic 83:5	clear 25:11 73:14	8:20 10:3
55:10 61:20 67:16	Center 34:17	chemicals 29:5	73:15 101:22,24	Codirector 33:14
68:1 88:15,18	centerpiece 32:20	32:7 33:22 36:21	clearly 48:17 64:9	Coffeen 69:6
canoed 33:1 48:6	<b>Central</b> 32:21 55:7	64:6,11 65:3 68:4	68:24 102:2	cofferdam 16:11,13
52:8 63:2 84:22	88:5 100:6	70:16 87:23 93:9	climate 70:24 88:20	collaboration 93:16
88:17	centuries 100:1	96:12	100:22	Collaborative
canoeing 49:1,3	certain 31:20 82:21	chemistry 82:17	<b>close</b> 9:2 10:18 13:1	25:22 33:15
67:12	certainly 46:9 68:8	Chenault 3:13	17:12 43:21 51:14	colleagues 55:6
canoeists 32:15	83:21 85:9	38:10,10 39:17	88:23 105:2	collected 76:7
canoer 88:5	certificate 100:9	40:4	closed 50:18	collecting 75:11
		I	-	0



College 1:14	committee 23:2	conclude 58:1	consumption 69:5	coordinator 37:22
colorful 65:2	58:5	concluded 105:14	cont 4:1 5:1	corporate 59:13
<b>colors</b> 67:22	<b>common</b> 83:5	conclusion 21:7	contact 28:18	<b>Corps</b> 7:4 14:4,9
combustion 82:24	85:11	condition 10:24	contain 8:21 11:2	24:12 34:9,12,16
come 20:1,4,6 21:4	commonly 82:23	74:15 96:4	29:4 48:14 57:4	39:12
22:18 24:15 30:8	communities 75:20	<b>conditional</b> 39:14	91:22 96:2	<b>correct</b> 18:14 95:9
		conditions 14:23	contained 8:1 18:2	correction 22:22
41:12 48:4,21	<b>community</b> 1:14 63:3 79:22 80:17			
55:19 56:1,22		16:17 34:20 82:21	<b>containment</b> 38:22	54:11
57:16 79:10 98:9	96:9 100:6	83:7,16 84:10	58:18 98:15	correctly 69:24
100:8,24	compatriots 90:16	92:5	contains 105:9	cost 74:1
comes 51:17 101:7	complete 20:20	conduct 17:8 18:18	contaminants	costly 42:22
coming 28:16,18,21	33:7 77:17	conducted 6:10	11:15 43:23 44:17	costs 74:3,3
42:3 91:14	completed 52:12	confirm 88:24	57:4,9,11 58:4	council 79:8
<b>comment</b> 9:6,23	66:16	connected 24:16	90:17	counsel 2:7 13:11
10:15,18 11:4	completely 32:1	connects 40:21	contaminated 27:7	13:12
12:7 17:13,24	compliance 14:12	conscience 104:8	28:13 32:5 33:21	<b>count</b> 75:14
19:3 21:7,7 38:15	58:17 93:2	conservation 75:19	34:2 35:15 39:21	counties 47:21
66:21 83:20 105:2	complicit 95:17	consider 18:9 21:6	58:14 66:7,9	Countless 86:22
commenting 17:21	complies 8:18	31:3 39:13 40:5	69:19 75:5 85:21	country 24:11
<b>comments</b> 3:3,4,5,6	component 7:3	43:1 44:4 58:6	<b>contaminating</b> 97:2	99:16
3:7,8,9,10,11,12	13:23	68:21 72:23,24	contamination	<b>county</b> 1:13 23:1,2
3:13,14,15,16,17	comprehensive	74:2 78:13 79:14	32:12 35:7 38:8	23:6,18 41:18
3:18,19,20,21,22	11:13	80:23 89:21 93:21	43:11 44:20 45:10	47:19 52:6,7
3:23,24 4:2,3,4,5	compromise 43:12	consideration 19:1	69:21 87:7 95:16	53:20 55:6 62:15
4:6,7,8,9,10,11,12	77:12	39:13,19 45:1	96:3	70:13 74:9 96:9
4:13,14,15,16,17	compromises 92:12	71:12 73:1	contaminations	103:9 104:2
4:18,19,20,21,22	concentrations	considerations	93:11	couple 27:24 47:13
4:23,24 5:2,3,4	83:1	59:22	contents 66:17	79:12 96:10
8:13,23 9:1,2,5,7	concern 25:8 51:23	considered 27:2	contingencies 25:2	100:13
9:10,15,18,19,24	66:6 68:20 92:12	42:20 45:3,5	25:3	course 45:3 60:16
10:16,19 12:11,13	101:19	73:15 78:19 81:12	contingency 35:13	60:20
12:24 13:2 17:3	concerned 20:13	84:15	<b>continue</b> 9:5 27:20	court 19:10,13,19
17:12,19,22,23	24:23 29:19 35:20	consistent 38:1	32:13 43:24 97:24	20:15 24:5 42:14
18:12,14,17,21,22	38:4 44:12 56:13	consists 14:15	105:1	50:11 75:23 79:17
18:24,24 19:1,8	57:18,21 58:2	constriction 72:6	continued 43:10	covered 67:21
19:16,18,20 20:20	60:17,18 61:6,24	construct 85:16	71:19	cradle 93:17
21:9,13,14,16	63:3,3,14 70:22	construction 14:17	<b>continues</b> 64:7 73:7	crashing 85:6
22:2,4,5,6,7 54:8	98:19 100:8	15:2 16:10,14	<b>control</b> 7:22 8:6	crawdads 76:5
56:9,12 72:9	concerning 44:16	25:4 32:17 33:23	23:15 35:15 45:12	create 25:18
104:20,22 105:1,3	concerns 26:22	34:7 35:11 36:10	52:24	created 56:2
105:5,9,10,12	36:6 56:17 63:5	36:23 37:4 46:14	controlled 25:9	creates 99:11
<b>commercial</b> 73:20	79:12,20 80:2	46:15,16 50:16,20		crisis 76:23 77:1
Commission 43:16	89:10 96:10 97:9	51:14,15 57:10	controlling 35:13	100:17
commissioned 94:5	concession 50:9	62:1,2,5 72:6,7	controls 35:8 81:2	criteria 7:17 94:20
Commissioners	concessionaire	85:8,15 92:18	conundrum 52:14	critical 71:11 77:18
70:12	75:13	consulting 38:11,13	cooperation 10:12	86:18
, , , , , , , , , , , , , , , , , , , ,	, 0.10	50.11,15		



	1	1	1	I
critically 30:7,23	80:8 103:4,9	23:10 26:18,24	deter 26:7	distraction 65:21
critters 76:9	dare 103:13	36:4 51:20 72:18	deterioration 64:9	District 29:16
Cronkhite 3:14	Darren 2:9 3:4 7:7	87:6	determination 7:24	70:13
40:9,9	12:20 13:18 16:21	degrade 31:21 32:6	8:18 35:6	disturb 58:14 66:2
<b>CSR</b> 1:13 106:10	81:11	39:3 58:15 75:6	determine 10:20,23	disturbance 27:7
<b>cubic</b> 15:10,16 16:3	<b>data</b> 10:16 100:17	95:1	75:15	34:1 83:20
63:6 73:23	daughter 49:12	degraded 77:24	determined 16:17	disturbing 28:13
current 16:14	97:5	degrading 43:13	29:4 35:3	75:5
65:17,18 75:4	Dave 3:24 58:9,11	95:1	determines 16:16	Division 13:11
87:14 92:11 93:22	<b>David</b> 4:4 62:20	delineated 93:14	detract 92:22	documentation
currently 39:21	66:23	Democrat 70:20	devastating 23:19	35:3
85:23 91:20 98:12	<b>Davis</b> 90:6	demolished 96:24	developing 11:24	documents 10:16
currents 92:21	day 1:15 67:15	demolishing 85:5	<b>Development</b> 34:16	10:20 27:20
<b>curtain</b> 34:10 36:11	101:10	demonstrated 81:1	devices 13:7	doing 42:5 61:1
66:9 85:6	<b>days</b> 76:1	Denial 14:8	dialogue 19:6 21:15	76:3
<b>customer</b> 51:17,22	deal 25:2 61:4	deny 14:7 31:13	diameter 15:9 53:7	dollars 86:3
<b>cut</b> 90:1	dealing 24:17 95:13	33:6 42:17 44:3	<b>Diane</b> 3:10 31:8	Donald 90:6
<b>cutoff</b> 39:19,24	dealt 24:12	48:11 50:2 55:23	different 37:23	<b>dot</b> 9:13
cuttings 14:16	<b>Dean</b> 1:13 2:4 3:3	70:8 80:20	72:20	downloaded 7:21
15:14,22	6:4 10:3 13:22	department 16:19	difficult 25:16 51:3	downstream 28:16
<b>c-a-d-e</b> 64:17	death 50:19	72:1 73:3 82:16	dinner 41:9	35:17 36:18 53:6
<b>c-a-r-o-l-y-n</b> 67:11	debating 76:24	94:8	direct 44:19	75:8 88:6,9 92:2
<b>c-a-s-a-d-y</b> 67:11	<b>debris</b> 34:19	departments 37:21	directed 21:14,16	Dr 22:16 60:21
c-h-a-m-b-e-r-l-a	decade 52:6	deposit 45:23	direction 106:6	62:20 63:16
96:8	decades 47:11 62:6	deposition 64:22	directly 95:4	dredge 87:21
c-h-e-n-a-u-l-t	100:1	71:19	director 6:6 63:15	drift 17:3
38:11	DeCELLE 4:23	<b>deposits</b> 44:17,20	dirt 90:24	<b>drill</b> 37:18
<b>c-l-a-r-k</b> 84:19	97:15,15	depress 92:8	disallowed 95:19	drinking 99:16
c-r-o-n-k-h-i-t-e	decide 10:22	descending 6:23	disaster 69:8,24	due 12:6 36:22 51:1
40:10	decided 56:16	14:22	disasters 68:12	65:18 72:6,19
D	decimate 58:21	<b>described</b> 8:14 26:4	discharge 7:18 14:3	dug 42:22
$\overline{\mathbf{D}}$	decision 57:22	91:6	14:5,19 16:15	dumps 78:7
damage 23:18 70:3	76:17 77:13	deserve 48:17	34:21 41:19,20	<b>Durbin</b> 3:17 46:1,2
98:6	<b>decline</b> 87:23	deserving 11:11	42:9	46:2
damaged 41:15	<b>DeClue</b> 4:7 68:18	design 70:4 73:2	discharges 14:14	<b>dynamics</b> 36:19
damaging 42:23	68:19 70:6	designation 94:11	35:14	<b>Dynegy</b> 1:7 6:18
71:9	deep 40:23 58:20	designed 51:9	discussed 98:23	26:19 27:11 31:14
dams 25:10 79:22	deeply 80:17	81:24	discussing 73:9	33:6,17 34:12
Dan 4:17 88:3	defecating 41:8 defer 6:13	<b>desirable</b> 73:6,8,11	discussion 54:9	38:1 42:6,17,20
danger 48:17 50:17	deficiencies 72:9	desire 17:16	disgusted 69:8	44:4,22 45:2,6,17 45:19 48:11 55:24
dangerous 58:4	deficient 26:12	desperately 77:1 Despite 67:17	disperse 34:2 displaced 69:15	43:19 48:11 33:24 56:7 65:7 67:21
65:17 71:7	28:2	destroyed 96:23	disposed 68:10	68:20 70:7 73:15
dangers 98:22	<b>defined</b> 94:14	detailed 37:14	disrupt 32:14	74:10 81:3 86:21
<b>Danville</b> 1:14,14	definition 103:16	details 25:1 37:15	disruption 27:8	87:7,12 90:2
62:15 63:1 79:7	degradation 23:9	detectable 83:2	distance 27:15	91:19 102:7 104:6
	uvgi auativii 23.7		uistance 27.13	71.17 102.7 104.0



[				
Dynegy's 26:3	effective 24:18	12:4,6	environmentally	17:15 18:22 22:14
27:10 28:4 34:8	effectively 25:12	engage 19:5	42:23	25:20 31:7 33:10
54:10 66:14 75:4	50:23	engineer 2:9 13:19	environments	44:11,16 52:2
85:5,24 87:21	effects 13:16 24:24	38:11,13 46:3	82:18 83:9,12,22	54:17 64:16 67:1
97:17 103:24	63:18,23 74:4	52:4 71:23 89:14	<b>EPA</b> 6:16 7:6,24	79:5 101:5 104:16
104:9	84:13	engineered 14:20	8:12,17,22 9:1,8	event 17:18 18:20
<b>Dziallo</b> 4:16 86:11	efficient 34:18	engineering 48:1	9:17,21 10:4,19	events 71:1,8,11,13
86:11	effort 53:2 81:5	57:6 84:21	10:23 11:6,7,17	eventual 74:2
<b>D-a-n</b> 88:3	efforts 75:19	Engineers 7:4 14:4	11:19,22 13:8,15	eventually 32:11
<b>d-e-c-e-l-l-e</b> 97:16	either 9:3,19 20:13	14:9 34:10,12,16	14:10 17:11,23	53:4 85:9 97:4
<b>d-e-c-l-ue</b> 68:19	36:23 95:2	39:12	18:9,12 19:3,21	everybody 42:8
<b>D-i-a-n-e</b> 31:12	electronic 9:4	Englebretsen 91:11	23:3,20 29:17	60:4,5 102:18
<b>d-u-r-b-i-n</b> 46:3	18:23,24	enjoy 30:9 57:13	31:13,24 33:12	everyone's 104:16
<b>d-z-i-a-l-l-o</b> 86:12	element 95:13	67:14 86:22,24	39:11 59:1 70:6	evidence 63:17
	elements 82:22	87:2 91:9	78:13 80:20 86:20	evidenced 39:24
E	83:2,3,5,10,12,15	enjoyed 66:4 76:8	93:16 96:2 97:16	exacerbated 100:23
<b>E</b> 3:1	elevated 83:1	103:5,13	98:4,5,7 105:6,12	exactly 25:11 34:20
eagles 66:2,4	elevation 15:12	<b>enjoying</b> 66:11	106:4	41:10
earlier 13:22 20:23	eliminate 26:22	68:2 103:19	<b>EPA's</b> 7:12	examined 84:1
20:24 58:23	27:6 64:11	enjoyment 32:15	epa.publichearin	examines 82:17
Earthling 100:8	Ellen 4:7 68:18	65:13	9:11	example 41:6 92:20
earthquakes 68:11	embankment 15:6	enjoys 101:8	equipment 36:10	excavating 25:6
easily 51:5	15:8 51:16 85:21	enriched 82:23	50:16	excavation 16:3
East 1:14 2:2 10:4	embankments	ensure 6:8 9:17	eradicate 12:1	33:24 64:5
32:21 33:19 65:23	85:17 101:22	18:13,17 68:15	erode 25:17 53:11	exceed 35:14
88:4	emergency 39:14	77:13 78:11 93:18	60:19	exceeded 29:10
Eastern 98:20	85:14	ensures 37:17	erodible 35:16	exception 10:11
eat 41:9	eminent 44:19	enter 21:8 43:23	eroding 60:16,22	excerpt 73:1
eats 69:3	emissions 100:19	entering 69:22	erosion 6:22 15:10	excessive 37:8
ecological 73:20	Empire 87:10	enthusiast 82:14	26:7,23 44:19	excited 76:4
87:17	emplacement 95:18	entire 15:19 42:11	52:11 64:22,23	exclusively 74:14
economic 50:15	empty 20:3	46:5 60:14 74:19	65:8 70:17 72:5,6	excuse 22:3
80:2 86:18 87:18	enable 85:15	79:23,24	77:19 92:1 93:13	Executive 23:2
economically 30:24	encounter 77:14	entirety 17:23	error 71:11	exhibit 21:8
economy 23:18	83:16	entities 104:3	escape 35:10	exhibits 10:17
30:8 62:14	encourage 11:22	environment 29:23	especially 38:5	exist 90:18
ecosystem 31:22	17:21 18:3 55:23	30:6 35:23 83:8	41:12 65:18 91:24	existing 8:9 14:23
32:21 44:15	58:5 81:3	93:20 98:5,8,16	99:24 104:17	15:5 16:4,5 35:4
Eco-Justice 25:21	endangered 79:13	99:21	essential 95:13	exists 98:5
33:15	79:19	environmental 1:1	102:7	exit 37:2
eddy 51:6	endangerment	2:2,6,8,9 6:5	established 45:11	expand 33:7
editorial 23:13	98:16	13:19 26:18,24	68:24	expect 34:23 70:24
educational 55:17	<b>ends</b> 86:1	28:9 30:21 38:8	estates 41:15	expensive 99:14
educator 96:9	endure 87:5	42:17 57:6 62:21	estimate 78:3	experience 38:18
effect 36:18 37:7	energy 30:16 36:17	63:16 72:18 84:12	estimated 91:24	38:19 39:5 51:12
82:21	enforcement 11:19	87:6 89:9,11,14	evening 6:1 13:22	experiencing 41:13
	Ι	l	-	



	<b>a</b> 11 <b>z z</b> o	0.0		<b>a b a</b> a ta
expert 38:3 57:6,6	fall 55:9	86:2	flows 40:24 88:20	formally 20:10
explain 12:15 54:5	familiar 88:11 99:3	<b>find</b> 31:2 42:5 51:1	97:3	45:4
explanation 12:21	families 37:2 57:24	61:3 96:12,14	<b>fluid</b> 36:16,16	former 70:18
explicit 22:10 37:14	family 29:12 47:10	<b>finish</b> 15:15	<b>fly</b> 97:6	formerly 43:15
explicitly 46:13	52:9 57:11 66:10	first 12:16 18:8	focus 12:5 21:19	70:12 86:15
explore 81:4	67:11 97:10	20:17,18 22:15,17	36:1,6 44:8 72:9	forms 83:13 91:8
exploring 76:8	far 22:1,4 23:11	22:20 33:1 35:2	103:20,23	forth 38:4 49:23
exponentially	29:20 48:2 73:16	35:20 54:13,16	focused 40:16 42:8	fortunate 99:15
37:10	78:15 101:7	61:8 73:10 84:24	focuses 82:20	fortunately 85:12
expose 51:13 88:20	103:18	85:20 86:12 88:15	FOIA 34:11	96:18
exposed 85:7	farm 47:9 49:4	99:12	folks 39:11	forward 12:13 20:1
exposure 63:18	fashion 18:18	fish 28:17 59:19	follow 9:18 94:5	20:6 48:21 75:24
express 24:7	103:21	62:11 69:3,5 76:5	following 10:18	Fossil 86:15
104:22	fast 81:8	92:7	12:20 26:16 39:13	fought 32:24
expressed 27:3	father 49:2 97:5	fishing 97:6	65:14 73:9	found 7:14 34:20
extends 76:6	favorite 55:5	five 42:20 44:24	follows 71:19	44:13 63:11,21,24
extensive 77:7	fears 66:10	59:6 87:12	<b>food</b> 8:10,11	93:9
extent 69:9 72:12	feature 15:20	<b>fix</b> 53:13 54:5 69:18	foolish 68:12	foundation's 100:7
extremely 51:3	February 37:9	97:12	foot 43:7 45:7	founded 52:6
99:17	federal 6:17 7:17	<b>fixed</b> 69:16	58:20	fraction 59:9
eyesore 65:24	8:8 13:23,24 14:2	<b>fixes</b> 31:5	force 32:11 53:20	free 18:7 20:17
e-mail 9:6,10,15,16	58:23 93:16 94:6	<b>flash</b> 65:19	forced 32:16 87:5	32:24 77:7 86:15
105:3	94:10,17 95:21	flat 88:19	forces 53:2	91:7
	federally 94:20,20	flimsy 85:5	foregoing 106:3	free-flowing 94:14
			8 8	
<u> </u>	feel 18:7 20:17	<b>float</b> 79:23	<b>Forest</b> 70:13	frequent 57:15
fabric 14:16 15:13	<b>feel</b> 18:7 20:17 47:16		0 0	
<b>fabric</b> 14:16 15:13 <b>face</b> 54:12		float 79:23	<b>Forest</b> 70:13	frequent 57:15
fabric 14:16 15:13           face 54:12           Facebook 59:6	47:16	<b>float</b> 79:23 <b>floating</b> 41:3 76:11	Forest 70:13 forever 86:2 103:17	frequent 57:15 frequently 34:20
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5	47:16 <b>feel-good</b> 53:20	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9	<b>frequent</b> 57:15 <b>frequently</b> 34:20 <b>friend</b> 64:18
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13	47:16 <b>feel-good 5</b> 3:20 <b>feet</b> 6:23 14:21,24	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22	<b>frequent</b> 57:15 <b>frequently</b> 34:20 <b>friend</b> 64:18 <b>friends</b> 28:20 57:1 57:2,12,16
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11         87:12	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9 65:20 85:6 87:22	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12 96:21	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24 33:6 34:21 40:12	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1 full 67:18 101:17
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11         87:12         failed 14:24 49:10	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9 65:20 85:6 87:22 92:1	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12 96:21 floodplain 27:5	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24 33:6 34:21 40:12 40:13,13 43:4,11	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1 full 67:18 101:17 fully 18:13 35:4
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11         87:12         failed 14:24 49:10         52:18 89:23 95:15	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9 65:20 85:6 87:22 92:1 fence 52:24	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12 96:21 floodplain 27:5 32:2 33:8 43:5,20	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24 33:6 34:21 40:12 40:13,13 43:4,11 44:15,18 46:5,24	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1 full 67:18 101:17 fully 18:13 35:4 84:12 85:4
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11         87:12         failed 14:24 49:10	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9 65:20 85:6 87:22 92:1 fence 52:24 fetuses 69:2	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12 96:21 floodplain 27:5 32:2 33:8 43:5,20 44:1,5 60:21	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24 33:6 34:21 40:12 40:13,13 43:4,11 44:15,18 46:5,24 47:11,14 50:22	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1 full 67:18 101:17 fully 18:13 35:4 84:12 85:4 function 73:21
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11         87:12         failed 14:24 49:10         52:18 89:23 95:15         failing 46:17,21         80:5	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9 65:20 85:6 87:22 92:1 fence 52:24 fetuses 69:2 field 59:11	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12 96:21 floodplain 27:5 32:2 33:8 43:5,20 44:1,5 60:21 65:13 68:10 71:15	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24 33:6 34:21 40:12 40:13,13 43:4,11 44:15,18 46:5,24 47:11,14 50:22 52:8 55:10 56:19	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1 full 67:18 101:17 fully 18:13 35:4 84:12 85:4 function 73:21 fund 80:6
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11         87:12         failed 14:24 49:10         52:18 89:23 95:15         failing 46:17,21         80:5         fails 26:20 27:14	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9 65:20 85:6 87:22 92:1 fence 52:24 fetuses 69:2 field 59:11 fight 89:18	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12 96:21 floodplain 27:5 32:2 33:8 43:5,20 44:1,5 60:21 65:13 68:10 71:15 73:6,10,24 91:1,7	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24 33:6 34:21 40:12 40:13,13 43:4,11 44:15,18 46:5,24 47:11,14 50:22 52:8 55:10 56:19 58:22 59:2 60:16	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1 full 67:18 101:17 fully 18:13 35:4 84:12 85:4 function 73:21 fund 80:6 funding 40:6 78:3,3
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11         87:12         failed 14:24 49:10         52:18 89:23 95:15         failing 46:17,21         80:5         fails 26:20 27:14         45:9 78:7 87:14	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9 65:20 85:6 87:22 92:1 fence 52:24 fetuses 69:2 field 59:11 fight 89:18 fighting 89:18	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12 96:21 floodplain 27:5 32:2 33:8 43:5,20 44:1,5 60:21 65:13 68:10 71:15 73:6,10,24 91:1,7 97:22	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24 33:6 34:21 40:12 40:13,13 43:4,11 44:15,18 46:5,24 47:11,14 50:22 52:8 55:10 56:19 58:22 59:2 60:16 63:2 64:20 65:10	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1 full 67:18 101:17 fully 18:13 35:4 84:12 85:4 function 73:21 fund 80:6 funding 40:6 78:3,3 82:8
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11         87:12         failed 14:24 49:10         52:18 89:23 95:15         failing 46:17,21         80:5         fails 26:20 27:14         45:9 78:7 87:14         failure 53:17 72:7	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9 65:20 85:6 87:22 92:1 fence 52:24 fetuses 69:2 field 59:11 fight 89:18 fighting 89:18 figuratively 77:5	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12 96:21 floodplain 27:5 32:2 33:8 43:5,20 44:1,5 60:21 65:13 68:10 71:15 73:6,10,24 91:1,7 97:22 floodplains 69:12	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24 33:6 34:21 40:12 40:13,13 43:4,11 44:15,18 46:5,24 47:11,14 50:22 52:8 55:10 56:19 58:22 59:2 60:16 63:2 64:20 65:10 65:13 67:4,12,16	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1 full 67:18 101:17 fully 18:13 35:4 84:12 85:4 function 73:21 fund 80:6 funding 40:6 78:3,3 82:8 further 12:7 23:9
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11         87:12         failed 14:24 49:10         52:18 89:23 95:15         failing 46:17,21         80:5         fails 26:20 27:14         45:9 78:7 87:14         failure 53:17 72:7         72:12	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9 65:20 85:6 87:22 92:1 fence 52:24 fetuses 69:2 field 59:11 fight 89:18 fighting 89:18 figuratively 77:5 fill 14:6 27:7 65:21	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12 96:21 floodplain 27:5 32:2 33:8 43:5,20 44:1,5 60:21 65:13 68:10 71:15 73:6,10,24 91:1,7 97:22 floodplains 69:12 floods 100:14,15,20	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24 33:6 34:21 40:12 40:13,13 43:4,11 44:15,18 46:5,24 47:11,14 50:22 52:8 55:10 56:19 58:22 59:2 60:16 63:2 64:20 65:10 65:13 67:4,12,16 69:14,15,22 70:1	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1 full 67:18 101:17 fully 18:13 35:4 84:12 85:4 function 73:21 fund 80:6 funding 40:6 78:3,3 82:8 further 12:7 23:9 23:18 51:16 53:11
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11         87:12         failed 14:24 49:10         52:18 89:23 95:15         failing 46:17,21         80:5         fails 26:20 27:14         45:9 78:7 87:14         failure 53:17 72:7         72:12         failures 70:18	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9 65:20 85:6 87:22 92:1 fence 52:24 fetuses 69:2 field 59:11 fight 89:18 fighting 89:18 figuratively 77:5 fill 14:6 27:7 65:21 87:9	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12 96:21 floodplain 27:5 32:2 33:8 43:5,20 44:1,5 60:21 65:13 68:10 71:15 73:6,10,24 91:1,7 97:22 floodplains 69:12 floods 100:14,15,20 floor 28:10	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24 33:6 34:21 40:12 40:13,13 43:4,11 44:15,18 46:5,24 47:11,14 50:22 52:8 55:10 56:19 58:22 59:2 60:16 63:2 64:20 65:10 65:13 67:4,12,16 69:14,15,22 70:1 70:15 71:3 73:22	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1 full 67:18 101:17 fully 18:13 35:4 84:12 85:4 function 73:21 fund 80:6 funding 40:6 78:3,3 82:8 further 12:7 23:9 23:18 51:16 53:11 95:11
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11         87:12         failed 14:24 49:10         52:18 89:23 95:15         failing 46:17,21         80:5         fails 26:20 27:14         45:9 78:7 87:14         failure 53:17 72:7         72:12         failures 70:18         fair 86:7 103:7	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9 65:20 85:6 87:22 92:1 fence 52:24 fetuses 69:2 field 59:11 fight 89:18 fighting 89:18 figuratively 77:5 fill 14:6 27:7 65:21 87:9 filled 101:17 final 8:15 16:19 39:17	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12 96:21 floodplain 27:5 32:2 33:8 43:5,20 44:1,5 60:21 65:13 68:10 71:15 73:6,10,24 91:1,7 97:22 floodplains 69:12 floods 100:14,15,20 floor 28:10 flow 25:9 65:17	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24 33:6 34:21 40:12 40:13,13 43:4,11 44:15,18 46:5,24 47:11,14 50:22 52:8 55:10 56:19 58:22 59:2 60:16 63:2 64:20 65:10 65:13 67:4,12,16 69:14,15,22 70:1 70:15 71:3 73:22 75:12,18 77:3,6	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1 full 67:18 101:17 fully 18:13 35:4 84:12 85:4 function 73:21 fund 80:6 funding 40:6 78:3,3 82:8 further 12:7 23:9 23:18 51:16 53:11 95:11 future 46:19 48:18
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11         87:12         failed 14:24 49:10         52:18 89:23 95:15         failing 46:17,21         80:5         fails 26:20 27:14         45:9 78:7 87:14         failure 53:17 72:7         72:12         failures 70:18         fair 86:7 103:7         fairly 6:10	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9 65:20 85:6 87:22 92:1 fence 52:24 fetuses 69:2 field 59:11 fight 89:18 figuratively 77:5 fill 14:6 27:7 65:21 87:9 filled 101:17 final 8:15 16:19	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12 96:21 floodplain 27:5 32:2 33:8 43:5,20 44:1,5 60:21 65:13 68:10 71:15 73:6,10,24 91:1,7 97:22 floodplains 69:12 floods 100:14,15,20 floor 28:10 flow 25:9 65:17 84:7	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24 33:6 34:21 40:12 40:13,13 43:4,11 44:15,18 46:5,24 47:11,14 50:22 52:8 55:10 56:19 58:22 59:2 60:16 63:2 64:20 65:10 65:13 67:4,12,16 69:14,15,22 70:1 70:15 71:3 73:22 75:12,18 77:3,6 84:22 86:22 92:17	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1 full 67:18 101:17 fully 18:13 35:4 84:12 85:4 function 73:21 fund 80:6 funding 40:6 78:3,3 82:8 further 12:7 23:9 23:18 51:16 53:11 95:11 future 46:19 48:18 66:17 67:4 70:1
fabric 14:16 15:13         face 54:12         Facebook 59:6         fact 30:17 34:5         64:10 89:1,13         90:3         facts 57:3,8 58:2         fail 39:15 49:11         87:12         failed 14:24 49:10         52:18 89:23 95:15         failing 46:17,21         80:5         fails 26:20 27:14         45:9 78:7 87:14         failure 53:17 72:7         72:12         failures 70:18         fair 86:7 103:7	47:16 feel-good 53:20 feet 6:23 14:21,24 27:13,15,15 32:3 40:23 41:6 49:15 52:21 54:11 65:9 65:20 85:6 87:22 92:1 fence 52:24 fetuses 69:2 field 59:11 fight 89:18 fighting 89:18 figuratively 77:5 fill 14:6 27:7 65:21 87:9 filled 101:17 final 8:15 16:19 39:17	float 79:23 floating 41:3 76:11 flood 25:4,6 43:2 56:20 71:10 78:21 100:20 flooding 65:19 71:12 93:12 96:12 96:21 floodplain 27:5 32:2 33:8 43:5,20 44:1,5 60:21 65:13 68:10 71:15 73:6,10,24 91:1,7 97:22 floodplains 69:12 floods 100:14,15,20 floor 28:10 flow 25:9 65:17 84:7 flowing 32:24	Forest 70:13 forever 86:2 103:17 Fork 1:8 6:24 11:9 11:10,15 13:17 14:6 23:5,14,22 25:24 31:16 32:2 32:4,10,22,24 33:6 34:21 40:12 40:13,13 43:4,11 44:15,18 46:5,24 47:11,14 50:22 52:8 55:10 56:19 58:22 59:2 60:16 63:2 64:20 65:10 65:13 67:4,12,16 69:14,15,22 70:1 70:15 71:3 73:22 75:12,18 77:3,6 84:22 86:22 92:17 93:12 95:22 103:6	frequent 57:15 frequently 34:20 friend 64:18 friends 28:20 57:1 57:2,12,16 front 10:9 20:2 21:1 full 67:18 101:17 fully 18:13 35:4 84:12 85:4 function 73:21 fund 80:6 funding 40:6 78:3,3 82:8 further 12:7 23:9 23:18 51:16 53:11 95:11 future 46:19 48:18 66:17 67:4 70:1 71:1,7,13 87:5,24



	•	•	•	
G	goal 73:21 80:18	grandparents 47:9	40:4 105:13	8:12,24 9:2,14
<b>gabion</b> 14:24 16:5	goes 29:21 40:20	grant 14:7 40:6	handle 62:3	10:1,3,6,10,17
gabions 65:4 85:22	42:4 101:8	granted 16:17	hands 56:6	11:3 12:5,10,13
86:1	going 10:7,11,12	granting 39:14	happen 10:13 13:6	12:15,24 16:21,23
<b>gain</b> 44:13	12:16 17:14 21:2	84:15	44:2 48:9 78:14	17:7,9,10 18:18
garish 67:22	25:16 34:22 38:16	grave 93:17	82:7 85:8,9	19:2,19,22,23
gas 62:16 101:10	41:17,21,22,24	gravel 15:17 40:20	100:21	20:22,24 21:11,15
gatekeepers 100:24	49:23,24 51:13	great 28:3,15 61:15	happened 69:13	21:19,21,23 22:24
Gauge 71:4	61:2,4,8,9,17 62:2	101:10	95:2	23:23 24:4 25:19
8	62:7,8,9,11,13,14	greatly 51:11	happening 41:10	27:23 29:18 30:11
general 11:18,23 19:14,22	62:18 64:11 69:17	great-grandchild	100:14	31:6,10 33:9
-	71:3,16 78:20	67:14	happens 102:8	35:18 37:13 38:14
<b>generation</b> 1:7 31:15 44:23 45:20	81:7,9 89:17 90:1	green 3:5 22:16,17	hard 39:4 60:12	39:16 40:3,8
48:18 65:7 86:8	91:3 96:14,19	22:20,20 23:1,1	hardening 72:13,21	42:13 44:7,8
	97:11,22 102:8	77:2	73:7	45:24 47:4,8
generational 87:17	103:21	grew 31:1 49:3,4	harm 23:4,21 28:15	48:20 50:6 51:24
generations 46:19	good 6:1 13:22	63:1 64:17	32:4 92:7	54:3,18 56:8 58:9
70:2 87:5,24 98:9 100:2	25:20 31:7 33:10	ground 42:4 45:10	harmed 62:15	59:23 60:3 61:23
Generation's 42:18	41:12 44:11 51:17	99:5	harmful 70:7 86:19	62:19,23 64:3,12
genuine 35:22	52:2 54:17 55:3	groundwater 29:2	Hartke 3:21 52:1,2	64:15 66:22 67:5
geochemical 84:14	55:22 59:11 64:16	52:13 58:13 63:11	52:3,5 54:4	67:8 70:5,9 71:16
geochemistry 84:2	67:1 68:15 72:23	63:22,24 69:21	hate 62:15	71:20 74:7,22
geologic 71:2,4	75:20 79:5 92:9	83:11,17 84:2,7	haven 77:6	75:1,22 77:9,20
geology 40:16	101:5,12	84:10 98:1 99:24	hazard 48:14	78:22 79:3,9,16
geotextile 14:16	Goodall 91:13	group 40:15 52:9	hazardous 37:1	80:10,15 81:7
15:13	gotten 57:19,19	101:18	47:2 68:4 69:10	82:10 83:20 84:5
<b>Germaine</b> 4:3 60:1	gov 9:13	<b>grown</b> 46:4	93:18	84:17 86:10 88:2
getting 37:24 62:10	<b>Gove</b> 2:9 3:4 7:7	growth 15:24	hazards 92:19	88:7,13,23 89:3,7
97:7	12:20 13:18,18	guardians 86:2	head 76:12	90:6 91:10 93:6
giant 40:22	81:13,19,24 82:8	guess 24:7,9,20,22	headquarters 9:8	93:24 96:1,6
girl 75:10 76:11,16	102:5	25:13	9:21 105:6	97:14 100:3 101:4
76:20 77:4	government 41:5	guide 58:12	health 45:15 57:24	101:12,13 102:15
give 10:1 77:2	governmental 20:9	Guidelines 73:2	63:16,17 69:1	102:18,22 104:11
81:10 91:2 105:12	20:11	Gulf 97:4	74:4 87:6 91:22	104:15 105:8,13
given 19:1 69:4	Governor 31:24	guys 41:16	92:7 93:20 99:19	105:14 106:4
91:24	Grace 4:24 98:18	gym 53:18	100:6	hearings 7:13
gives 14:1	Gradeless 2:7	g-e-r-m-a-i-n-e	healthy 75:18,20	92:10 104:21
giving 47:8	13:10,10	60:2	hear 19:15 21:13	Heath 4:9 71:21,22
glad 59:2	graduate 22:21	g-r-e-e-n 22:20	50:11 59:3 91:16	71:22 74:8,23
glaring 45:2	71:24 98:20		102:18	heavy 57:4 67:17
<b>go</b> 6:2,2 22:13	Grand 2:2 10:4	<u> </u>	heard 46:11 47:20	98:22 99:9
41:22 49:22 51:21	grandchildren	half 87:10	48:23 69:2 78:15	heed 100:12,12
61:7 69:16 71:20	28:19 47:17 66:11	halfhearted 23:15	101:23 102:11	held 7:11
71:21 75:1 84:17	67:14 87:13 92:16	halfway 76:6	103:1	hell 105:11
86:21	grandkids 46:19	hammer 60:13	hearing 1:6,13 2:4	Hello 56:10 60:1
	grandmother 92:15	hand 21:24 38:16	6:1,4,7,15 7:11	90:10
	I	l	l	1



help 80:6	70:11	19:3,21 23:3,20	impoundments	inevitable 53:15
helped 43:16	<b>human</b> 93:19	24:2 25:23 28:9	11:14,20,21 12:2	inevitably 98:12
helps 54:24	100:23 103:18,18	28:10 29:3,17	12:9 67:23 82:19	infected 97:20
Henning 40:23	humans 61:1 68:4	31:9,9,13,19,24	impressive 88:16	information 7:9
Henry 3:18 47:5,6	68:13 98:24	32:21 33:2,11,15	improved 94:19	18:2 34:11 38:1
47:6	hundreds 84:23	38:12,13 42:17	improving 95:14	64:18 72:12 81:13
Heritage 43:17	Hurst 22:6	43:8,15 52:3,4	inadequate 32:9	81:14 82:8 102:7
Herman 3:23 56:9	<b>hurt</b> 62:14	55:8 56:24 59:10	70:7	105:8
56:10,10	husband 67:16	67:2 68:19 70:6	inaudible 40:11	informational 6:15
Hi 68:18 71:22	101:9	70:23 71:8,24	41:8 59:17,19	7:13
91:16	hydraulic 34:18	72:1 74:10 78:13	77:24 78:8,16,18	infrastructure
hideous 48:5	53:8	80:20 82:15 83:24	78:24 79:11 81:14	73:11
hides 97:21	<b>h-e-a-t-h</b> 71:23	84:22 86:17 88:5	85:10,16 88:12,16	ingest 99:14
high 22:21 28:12	<b>h-e-n-r-y</b> 47:7	93:5 94:5,8 97:16	88:18,19 90:12	ingested 28:17
33:20 34:21 51:8	<b>h-e-r-m-a-n</b> 56:11	98:3,4,7,20 100:6	91:2 93:1 101:23	inherit 86:9
71:6 75:4 99:1	<b>h-u-l-t</b> 70:11	105:6 106:4	<b>inch</b> 15:9	initial 49:22
highest 74:14		<b>Illinois's</b> 89:10	inches 58:20	<b>injury</b> 50:19
highlight 98:21	<u> </u>	Imagine 85:4	include 14:23 33:7	inner 61:18
high-water 15:21	ice 88:17	immediate 77:18	63:7 72:16 78:6	input 29:18 80:16
16:1	<b>idea</b> 38:16 53:20	immerse 77:5	81:15,17 94:4	insane 41:13
hike 28:22	76:18	immersed 76:14	included 10:24	insist 48:12 55:24
hikers 32:15	identifiable 51:6	imminent 50:17	26:11 81:19	insoluble 83:23
hiking 86:24	identified 16:11	impact 11:21 34:19	includes 14:14 15:3	inspiration 44:13
hill 43:16,19	identify 12:17	46:10 50:15 73:19	15:17 16:2 72:19	installing 14:20
history 30:24	26:21 35:7	84:12 93:19	92:17	Institute 63:15
Hoff 22:5	identity 77:1	impacting 51:12	including 16:5	instructions 9:15
hold 30:12 66:9	<b>IDNR</b> 95:3,7	impacts 59:21 74:5	36:20 42:21 43:13	9:17 12:23
88:23	<b>IEPA</b> 26:13 33:16	80:24	66:11 92:6 93:9	integrates 37:21
holding 8:12 29:17	37:16 44:3 48:12	impair 79:1	inclusion 19:11	intend 16:23
80:15 97:7 101:12	66:14 77:10 94:9	impairment 92:7	income 50:23	intended 8:3 9:17
<b>holds</b> 36:9	95:3,4,7,15	impairments 75:21	incomplete 80:22	intent 36:9
hole 60:13	101:12	<b>impede</b> 65:12	<b>Incorporated</b> 52:5	intention 66:17
home 55:22 65:12	ignored 94:9	impending 12:6	increase 26:17 32:6	intentions 59:12
homes 55:3	<b>ignoring</b> 24:14	impervious 68:11	36:16	interact 77:15
hope 41:11,16	95:21	implementation	increased 53:10,10	interconnects
48:11,12 59:3,21	<b>illegal</b> 59:15	94:12	72:5,6	40:24 41:1 42:12
67:13 80:16 93:21	<b>Illinois</b> 1:1,14,14	implore 77:10	incredibly 99:15	interest 35:22
104:10	2:2,3,6 6:5,16 7:6	100:24	independent 29:7	66:20
hoping 101:11	7:12,14,15,21,24	importance 11:8	33:17	interested 56:6
horizontal 15:7	8:2,4,12,17,19,22	important 24:15	index 4:1 5:1 75:15	interfere 8:9 31:22
hosting 35:21	9:1,8,12,17,21	30:7,14,19,23	indexes 75:18	102:2
hotels 62:16	10:4,5,19,23 11:6	35:12 60:5 99:17	Indiana 97:2	interim 27:16,21
hours 101:8,16,17	11:7,10,17,18,19	importantly 74:5	indicate 20:13	<b>Interior</b> 73:3 94:3
huge 43:21 65:21	11:22,22 13:8,15 13:21 14:10 17:11	impose 18:18	21:24	international
68:11 98:10		imposed 94:10	indicated 17:16	100:17
Hult 4:8 70:10,11	17:23 18:9,12	impoundment 12:3	62:1	internet 7:23
		•	•	•



interrupt 17:5	<b>Joyce</b> 3:8 5:3 28:7	102:9,11	67:23 68:4,6	listen 18:11 80:16
intervene 14:1	101:6	knowing 38:6	70:16 83:4 93:12	listening 62:18
introduce 12:17	<b>July</b> 14:10 67:15	knowledge 84:1	lead 57:5 64:1	86:13
13:9 83:21	June 33:17	103:22	93:10	Litchfield 68:19
introduced 36:20	junk 90:20	known 63:13	leaders 54:24	literally 77:5
introducing 37:1	justice 101:1	knows 69:16,17	leak 97:24	little 41:11 60:7
introduction 12:20	<b>j-o-h-n</b> 44:12	Koch 2:8 13:13,13	leaked 58:12	61:2 75:10 76:8
22:23	<b>j-o-y-c-e</b> 101:6	Koers 4:21 94:1,2,2	leaking 41:23 64:11	76:11,16,20 77:4
invasive 66:15		96:2	95:11	84:20 101:15
invertebrates 75:11	<u> </u>	Kris 64:18,21 65:1	leave 66:5 81:5	live 14:15 15:13,22
invest 56:23	Kanter 91:11	66:13	leaving 44:1 80:11	40:10,21 55:8
invested 104:3	Karplus 3:19 48:21	Kris's 65:12	86:1 95:11	91:8 98:8,17
invitation 59:5	48:22,22	<b>k-a-r-p-l-u-s</b> 48:23	Lee 4:22 96:7	103:4
<b>involves</b> 56:2 64:5	Kay 3:15 42:13,15	<b>k-o-e-r-s</b> 94:2	left 21:3 41:14	liver 63:23
involving 98:24	kayak 25:24 65:14		59:10 65:2,16	livery 37:7 61:20
<b>in-stream</b> 16:10,13	kayakers 23:16	$\frac{\mathbf{L}}{\mathbf{L}}$	85:22 97:21	LLC 1:7 6:19
irreparably 32:4	32:15 71:7	11:13 103:1 106:10	Legal 13:11	load 26:17,17
isolate 16:13	kayaking 65:1	laboratory 29:8	<b>legs</b> 76:13	loaded 85:5
issue 10:21,22 11:5	70:14 86:24	laid 76:14	length 15:19 45:7	loading 34:18
14:5,9 17:6,15	kayaks 37:3 59:6	Lake 55:6	letting 61:20	loads 26:23
18:5,8 24:17	61:18	Lambert 91:12	level 35:6 58:20	local 30:7 74:5 87:1
44:17 45:9 54:22	keep 10:8 19:14	Lan 3:11 33:13	62:11 63:19,19	94:24
59:14 63:4	30:12 32:24 40:16	land 43:12 52:4	67:17 74:13	locally 97:9
issued 33:17 39:18	41:18 76:18	56:17,20,21 80:18	levels 29:10 32:6	located 15:20 51:6
issues 6:12,13 8:1	keeps 42:8	88:10 98:13	51:8 63:18 94:19	location 16:7 43:22
8:14 11:3 12:8	Kentucky 99:2	Landmark 43:17	levy 4:11 37:9	44:6 66:18
24:15,18 36:4	Kevin 3:5 22:15,17	landowner 88:9	77:20,21,21 78:23	locations 102:9
59:20 72:8 76:24	22:20 23:1	lands 103:11,12	liability 86:9	logistical 51:2
87:20	keyed 15:4	landscape 32:11 45:16	liaison 37:22	logs 48:3
issuing 11:7	<b>Kickapoo</b> 37:7 50:10 58:22 61:19	43:10 landward 15:18	licensed 46:3 52:3	long 30:6,15 31:3
<b>i-n-d-e-n</b> 103:1	kidney 63:22	large 25:4 52:17	licenses 7:18	33:3 38:21 39:7
J	kids 46:19 87:24,24	53:7 78:8 90:16	<b>lies</b> 43:17 50:20	39:21 43:1,7 45:7
$\overline{\mathbf{J}}$ 31:24	Kim 6:6	101:18	<b>life</b> 46:6 79:15,15	46:18 49:19 66:12
Jan 4:19 90:9,11	kind 97:7	largely 24:14	79:18 81:23 91:8	68:6,8 76:14,22
Jane 4:5 64:15,16	knock 96:22	largest 89:10 99:5	lifelong 88:4 lifts 15:12	78:2 79:11 87:3
<b>Jason</b> 3:23 56:9,10	know 25:9 27:4	late 74:13	Light 4:3 60:1,1	87:17 88:11 91:4 97:23 100:1
jeopardy 59:4	33:16,23 34:11	laundering 41:14	61:24	103:23
79:24 80:6	35:23 37:11,12,20	law 22:1,8 58:16,23	limit 18:19 93:7	longer 51:11 104:5
<b>Jessup</b> 1:13 106:10	41:17 48:7,9	94:6,10 95:12,21	96:1	104:7
Jim 94:2	54:14 56:4,6	layer 15:9 53:7	limiting 54:8	look 12:12 30:15
job 55:5 59:10 98:4	57:19,20 60:6	layered 15:13	limits 21:18	59:6 74:1,17
105:11	61:11 68:3 77:23	leach 97:24	Lindenberg 63:16	looked 37:13 75:24
<b>John</b> 3:16 6:6 44:10	78:6 82:24 84:3,6	leachate 29:2 33:18	line 86:20	76:10
44:11	87:11 88:19 91:4	69:21	linear 65:9,20	looking 38:17
<b>join</b> 66:13	92:10 96:18,18,22	leaching 44:18 65:2	lined 15:9 66:18	40:19,19 43:19
Ĩ				



	_	_	_	_
looks 22:15,16,16	mandates 93:2	medicine 62:22	67:4,12,16 69:14	modeling 71:10
74:17 96:17	manganese 29:9	meet 16:18 27:2	69:15,22 70:1,15	modifications
lose 51:22	manmade 69:8	74:23 94:20,22	71:2 73:22 75:12	94:16
lost 70:1 76:15	96:23	101:2 102:3	75:18 77:3,6	moldy 53:19
lot 24:12 25:6 31:1	<b>manner</b> 16:24	meeting 54:8 56:14	84:22 86:22 92:17	molybdenum 29:9
35:23 46:5,13	68:10 93:19	76:1	93:12 95:22 103:6	<b>Mom</b> 76:2
51:18 53:2 80:7	map 40:2	meetings 68:23	103:8	moments 7:10
86:14 89:13 103:1	March 1:15 106:5	member 20:14,21	midstream 83:2	<b>Monahan</b> 3:20 50:7
love 55:9 103:6	marine 79:15,18	20:23 70:12 100:5	midway 50:20	50:8,8,12 52:1
loved 80:17	mark 15:21 16:1	members 17:1 19:6	<b>Midwest</b> 1:7 6:19	money 41:14 53:3
loves 42:6 103:7	<b>Marlin</b> 3:10 31:7,8	19:8,9 21:15	30:8 31:14 42:18	54:4
low 25:8 51:7 67:17	31:12	29:12 97:10	44:22 45:20 65:7	monstrous 27:21
LYNN 5:4	<b>Marron</b> 3:9 29:14	mention 18:4 34:5	mike 3:9 29:14	<b>months</b> 35:11
<b>I-a-n</b> 33:14	29:14 30:14	34:15 59:18 63:9	88:13	100:13
<b>I-e-v-y</b> 77:22	<b>Mary</b> 3:15 4:7	mentioned 13:22	mile 36:23 37:3	Monticello 38:12
<b>l-i-g-h-t</b> 60:2	42:13,15 68:18	34:13 63:23 64:7	65:16	morning 38:15
L-y-n-n 102:24	91:12	103:15	miles 40:13,20,20	40:2
	massive 27:7 52:19	mercury 57:5 63:7	42:4 47:10 65:11	Mountains 99:3
M	Mast 3:8 28:7,7	64:1 69:2,5 82:22	<b>million</b> 63:6 73:23	<b>move</b> 17:5 18:4
<b>macro</b> 75:11	<b>material</b> 14:6,17	93:10	millions 69:11	39:20 42:1,21
Mae 4:16 86:11	16:4,7 47:2 53:5	merely 53:15	mind 59:8 103:18	53:9 56:7 60:20
mail 9:5 10:3 105:5	53:13 63:21 84:9	mess 29:24 54:10	minds 45:17	80:5,8 88:13 98:2
mailed 105:5	materials 14:19	62:9 96:17	minimal 26:17	98:14
<b>Main</b> 1:14 4:4	33:24 63:5,7 64:7	met 48:24 57:2	72:17	moved 38:6 42:10
62:20,20 63:1	92:22	metalloids 82:18	minimize 16:15	43:24 66:18 98:11
64:4,13	matter 6:16 12:4	83:23	26:24	<b>moving</b> 30:12
maintain 64:6 95:5	13:1	metals 57:4 82:17	minimizes 73:19	33:18 43:2 44:5
maintained 82:1,4	<b>mayor</b> 31:8 79:7	83:22 98:23 99:10	minimum 15:9	45:3 51:7 56:2
94:19	McCLINDEN 5:4	method 39:8	19:15	73:13,17 74:8
maintaining 95:14	McCOLLUM 4:17	methods 73:5,8,10	mining 99:4,10	multiply 37:10
maintenance 15:18	88:3,3,9,15,24	Mexico 97:4	<b>minute</b> 71:17	75:14
74:2 78:2,4 82:2,2	McLINDEN	microphone 21:12	minutes 6:3 18:19	<b>m-a-e</b> 86:12
82:3 90:1	102:16,19,24	88:8	20:19 21:4 84:19	<b>M-a-i-n</b> 63:1
<b>major</b> 30:17 32:20	meal 101:10	microplastics 99:14	mismanaged 93:19	<b>m-a-r-l-i-n</b> 31:13
96:21	mean 83:3	<b>middle</b> 1:8 6:24	Misner 4:20 91:13	<b>m-a-r-r-o-n</b> 29:15
maker 101:2	meander 32:10	11:9,10,15 13:17	91:15,16,17 93:8	<b>m-a-s-t</b> 28:7
making 41:9 71:7	49:23	14:6 23:5,14,22	misrepresentations	<b>m-c</b> 102:24
manage 24:11,19	meandering 55:13	25:24 31:16 32:2	18:15	m-c-c-o-l-l-u-m
43:16	means 14:8 18:23	32:4,9,22,24 33:5	missing 85:19	88:4
management 24:8	35:23 57:7 73:12	34:21 40:13 43:4	<b>mistake</b> 54:13,16	<b>m-i-k-e</b> 29:14
93:17	85:1 95:7 103:17	43:11 44:15,18	54:16	<b>m-i-s-n-e-r</b> 91:17
managers 94:23	measure 39:6 45:9	46:5,24 47:11,14	mitigation 6:22	<b>m-o-n-a-h-a-n</b> 50:9
95:3	measures 23:15	50:1,22 52:8	65:8	
managing 94:7	35:15 38:22 39:2	55:10 56:19 58:22	mobility 82:21	<u> </u>
mandate 93:17	39:5 48:13 58:18	59:2 60:16 63:2	mobilizing 83:22	N 3:1
mandated 18:9	media 56:15,15	64:20 65:9,13	model 45:15	name 6:4 13:10,13
		Í	I	l



13:18 18:7 20:1,5	66:3 67:21 69:12	<b>noted</b> 64:21	offered 78:14	open 10:15 59:5
20:5,8,16,17,18	75:12,13	<b>notice</b> 8:22 9:14,16	offers 23:7	65:16
20:18 22:19 24:1	nearby 59:18	10:1,6 19:23,23	Office 11:18,23	OPENING 3:3
24:5 25:20 28:7	Nebraska 96:17,23	33:16 34:4 37:13	officer 1:13 2:4 6:1	operations 26:9
29:14 31:7,11	100:12	105:8	6:5 10:3 16:21,23	operator 37:7 50:9
33:13 38:10 40:9	necessarily 34:23	noticed 65:2	20:22,24 21:23	opinions 24:7 100:7
42:14 44:11 46:2	necessary 7:3 16:18	<b>noting</b> 75:21	22:24 23:23 24:4	opportunities
47:6 48:22 50:8	need 9:3,10,20 10:8	number 21:2 22:11	25:19 27:23 30:11	79:21 80:4
52:2 54:20 56:10	21:11 27:18 29:22	48:6 57:21 61:6	31:6,10 33:9,10	opportunity 47:7
60:1 62:24 64:16	30:5,12 48:8	66:3	35:18 39:16 40:3	54:21 58:7 67:3
66:23 67:6,9	69:16 77:1,4,13	numerical 75:15	40:8 42:13 44:7	93:23 104:21
68:18 70:11 71:22	78:10 80:7 85:14	numerous 57:2	45:24 47:4 48:20	opposite 74:18
79:5 80:12 82:12	85:16 97:12 105:5	101:23	50:6 51:24 54:3	<b>option</b> 23:7 45:4,6
84:18 86:11 89:8	needed 36:5	nurse 93:4,5	54:18 56:8 58:9	51:1 95:12
90:11 96:7 97:15	needless 98:5	<b>N-a-o-m-i</b> 82:13	59:23 61:23 62:19	<b>options</b> 33:7 37:11
98:18 99:18 100:4	needs 29:12,24 30:3	<b>n-o-r-e-e-n</b> 66:23	62:23 64:3,12,15	37:12 51:21 91:21
101:5 102:23	91:1 96:20		66:22 67:5,8 70:5	93:23
104:13	negative 46:10	0	70:9 71:16,20	oral 9:1 12:24
names 20:4 22:1	50:15 74:4	<b>o</b> 100:5	74:7,22 75:1,22	18:21 19:1
Nancy 91:12	negatively 37:6	Oakford 6:24	77:9,20 78:22	orange 28:23 67:22
Naomi 4:14 82:12	neighborhood 30:2	22:22	79:3,16 80:10	<b>Orchid</b> 43:16
narrower 36:14,16	55:13	Oakwood 22:21	81:7 82:10 84:5	ordinance 79:9
nation 76:24	neighborhoods	obligated 33:4	84:17 86:10 88:2	ordinary 15:21,24
national 11:10 30:1	55:21	obligation 55:4	88:7,13,23 89:3,7	organization 20:12
31:18 33:5 39:9	nesting 66:3	observations 88:24	90:6 91:10 93:6	28:8 89:11
40:1 43:9 50:21	Network 80:14	obstruction 90:21	93:24 96:1,6	organizations 20:9
61:7,12,16 63:15	never 52:24 55:11	<b>obtain</b> 12:10	97:14 100:3 101:4	original 44:13
65:21 77:6 78:10	55:12 99:7	obtained 7:23	101:13 102:15,18	Originally 81:19
78:12,17 79:2	new 39:19 52:13	obvious 54:12	102:22 104:11,15	outcomes 93:9
native 61:10,11,11	65:23 87:9	73:17	officially 24:3	outlets 56:15
natural 32:19	newly 42:22	obviously 40:15	officials 70:19	outside 51:17 56:24
39:23 43:17 44:14	news 56:15	63:5,23 82:16	okay 21:23 22:24	overall 51:12 75:18
50:5 51:18,20	nicely 37:19	96:12,22	45:24 49:21 77:20	owned 88:10
52:21 59:9 68:12	noise 19:14	occasion 76:2	81:11,17,22 84:17	owners 53:14 68:20
70:4 82:18 83:24	noncompliance 8:7	occupational 62:21	86:10 88:2 90:7,8	owns 41:5,5
92:23 94:8,15	45:13	occur 14:20 16:10	90:8 91:16 96:15	<b>oxbow</b> 39:23
95:6 96:4	non-profit 25:22	32:13 65:11 92:9	104:11	oxygen 62:11 83:9
naturalized 39:19	54:24 56:15 80:14	occurred 99:5	old 27:13 33:19	83:11,16,21
naturally 26:23	Noreen 66:20,23	occurrence 65:5	76:11 97:5	<b>O'Reilly</b> 5:2 100:4
32:10	normal 65:5	occurring 24:8	oldest 89:11	100:4
nature 43:15 52:24	<b>north</b> 2:2 10:4	26:23 64:24	omit 100:19	
77:8 82:13 87:1	33:19 40:12,12	<b>occurs</b> 25:4,6	once 18:8 20:18	P
nature's 53:2	91:18 103:11	offend 92:23	48:3 53:16 99:20	paddlers 66:4
navigate 65:17	notary 1:13	offended 60:11	ones 82:18	75:13
navigation 61:17	<b>note</b> 9:14 10:6	offenses 92:8	ongoing 45:10 74:4	page 19:22 26:4
near 6:24 64:24	57:13 92:24	offer 103:8	78:3	73:4,4,9



		1		
pagers 13:6	47:20 51:13 54:24	<b>PhD</b> 82:14	<b>plant</b> 14:15 15:22	PortaDam 34:18
paid 75:19	55:2,18 57:19,23	<b>Philip</b> 4:8 70:9,11	40:14 46:4 52:14	portage 32:16 37:3
<b>pair</b> 66:2	61:13,20,21 67:18	phones 13:6	52:16 64:24 65:5	50:24 51:11 65:15
<b>Pam</b> 3:7 25:20 90:8	69:1 76:1 77:14	<b>photos</b> 70:15,17,17	69:6 79:15 86:6	portages 51:10
<b>Pamela</b> 22:17	89:17 98:8,17	74:13,17	planted 41:7	porta-dam 16:12
panel 17:1 19:6,19	99:9 101:7 102:20	<b>physical</b> 38:22 39:8	plants 61:11 62:10	34:14
21:15 54:21 56:12	102:20 103:22	physician 64:13	plastic 99:13	<b>portion</b> 36:13
101:13	percent 100:22	<b>pick</b> 48:8	plate 41:9	51:17,22
paper 34:17	percentage 35:9	pictures 97:1	<b>play</b> 28:22 76:6	portions 36:24
Paragraph 73:5	perfect 27:24 42:7	<b>piece</b> 40:17	please 9:18 13:7	pose 12:2
Pardon 67:7	perfectly 49:14	<b>piecemeal</b> 24:10,10	17:19 19:14 20:1	positive 95:7
<b>Park</b> 37:7 40:1	53:23	pile 49:24 69:18,19	20:6,8 21:5,9,18	possibility 96:12,16
50:10 58:22 78:10	perform 78:3	69:20,22 70:2,3	30:11 31:11 42:14	possible 18:17 25:2
78:18	period 9:6,23 10:15	78:20 90:20,23,24	54:10 55:23 60:10	48:10
part 7:15,16 8:5	10:19 11:4 17:13	90:24 98:10	67:6 68:14 70:7	possibly 40:6 84:9
13:3 16:19 22:3	17:24 19:4 21:7	<b>piles</b> 55:20	80:12 100:9,12	97:9
22:10 30:19,24	38:15 51:15 105:2	pit 27:11,13 65:24	101:1	post 19:21 46:16
36:14 51:21 75:10	permanent 29:22	pits 25:17 29:1 33:8	plenty 59:18 90:13	72:7
99:15	30:5,15 31:4 43:3	33:19 43:11,18,20	<b>plow</b> 27:20	Postal 9:20
participating 97:8	46:23 54:11 57:23	60:23 64:24 66:18	<b>PO</b> 2:3 10:4	posted 19:24
participation 11:24	58:7 69:23 90:2	87:9	<b>podium</b> 20:7 22:18	postpones 53:15
particles 66:10	permanently 30:3	place 19:22 23:8,15	91:14	potential 13:16
particular 25:15	31:21 71:13 92:22	25:6 28:8 29:11	point 24:24 25:13	16:7 37:12 74:6
49:3 63:23	permit 7:2,4 13:20	36:9 37:22 39:5	36:7 40:12 48:10	77:11 83:19 92:19
particularly 8:10	14:5,9 16:20	39:24 46:17 48:4	76:10 102:1	93:11
24:21 25:3 38:20	39:13,14,18 48:11	54:1,14,23 55:8	points 46:8 77:19	potentially 36:23
51:4 63:14 98:23	50:2	60:12 62:14 74:21	77:22	83:22 87:17
parts 55:5 65:6	permits 7:18	77:16 95:11 98:11	poison 42:11 98:12	Potomac 64:17
85:7	permitted 21:17	99:3	100:11	<b>pounds</b> 64:1
pass 18:7 61:20	permitting 13:24	placed 10:16 92:5	<b>poisoned</b> 98:9,10	power 49:14 52:14
passed 79:9	14:2	placement 74:3	political 76:24	52:16 64:24 65:4
passing 18:4	perpetuity 26:1	Places 77:3	politicians 53:19	69:6
passionate 64:19	28:11 31:5 82:5	placing 43:7	pollutant 26:16,23	powerful 49:11,18
path 96:14	103:14,15,17	<b>plain</b> 53:21	pollutants 14:3	practically 103:7
<b>paths</b> 84:7	104:1,9	<b>plan</b> 15:17 18:6	62:4	practice 62:21
patience 104:16,18	person 7:6,8 52:16	34:9 35:13 50:24	pollute 95:12	72:24
patients 93:8	90:10	54:10 75:4 77:17	pollution 7:21 8:6	prairie 40:11 80:13
<b>Paula</b> 22:6	personal 23:13	77:23 78:1,15	26:2 34:8 43:4	precariously 27:10
pay 54:6 86:4,7	31:2 92:13	82:2 88:21 90:1,2	45:11 91:23 95:9	precious 68:16
paying 42:7	personally 6:11	100:10 103:24	96:19 98:2	precipitate 83:12
peace 77:2	41:11 52:8	104:5,9	pond 26:8 83:4	precipitated 83:16
peers 87:13	personnel 29:4	<b>planet</b> 100:21	ponds 48:15 58:12	predicted 82:3
peg 60:13	persons 17:8	planner 89:15	83:17 84:7,11	Predmore 4:19
people 22:11,13,15	perspective 59:3	planners 45:2	85:23 99:22	90:10,11
24:22 30:2,8,18	80:8	Planning 72:2	<b>pool</b> 28:24	preferred 43:6 45:6
32:22 46:15 47:19	petitioned 94:3	plans 24:22 25:2,10	<b>poor</b> 83:16	72:24
		· · ·	l	



prematurely 23:3	51:14 54:15 60:6	72:4,15 73:21	78:11	90:11
23:21	68:7 90:4 103:23	76:17 81:1,23,24	proven 58:18	p-u-b-l-i-c-h-e-a
prepared 21:5	problem 25:7,14,18	84:24 86:21 87:3	<b>provide</b> 7:8 12:21	9:12
64:18 78:19 103:3	31:5 41:23 42:9	87:8,21 101:24	12:23 13:11 17:21	<b>p.m</b> 1:15 9:8
Preponderancy	42:10 45:22 52:17	<b>projects</b> 24:13 32:8	18:17 26:5,14	105:14
41:4	53:21,22 56:1	104:22	72:11 78:1,24	
presence 29:8	60:5,14 87:18	prolonged 19:6	81:20 82:2	<u>Q</u>
50:16	97:19,22 98:2,14	21:15	<b>provided</b> 9:16 10:1	quality 1:6 6:12,16
present 2:6 36:20	problems 37:9	promote 15:24	25:1 73:1 82:9	7:1 8:4,15 10:21
57:8 70:1 91:23	61:17,18 99:11	proper 11:24	provides 9:14	11:5 12:11,14,19
presented 18:3	procedures 7:12,16	properly 6:9 38:6	providing 67:3	12:22 13:14,16
57:3 58:2 103:23	21:21	66:18	provisions 7:12	14:13 16:18,23
presenting 105:12	proceed 12:16	property 92:8	8:22 95:24	17:4 21:20 23:4
presents 50:17	proceeded 76:5	proposal 32:3 36:3	<b>public</b> 1:6,13 7:11	23:11,22 24:17,20
preserve 22:9	proceeding 6:9	45:21 47:22,23	7:13 8:10,10,13	24:24 25:15,18
46:24 48:18 70:13	13:4 19:11	48:10 70:7 82:1	8:22 9:22 10:15	26:14 28:15 29:6
preserves 43:16	proceedings 1:12	85:24 91:24 93:22	10:18 11:2,6,23	29:20 31:14,21
73:20	89:6	<b>propose</b> 34:10	17:1,24 19:8,9,18	32:6 38:5,24 39:3
preserving 39:9	proceeds 87:8	proposed 12:12,19	19:23 20:14 29:18	39:12,18 42:18
73:5,10	process 6:13 7:9	14:12,14,19 15:3	34:4 37:5 38:14	43:13 44:23 45:12
president 86:15	11:24 12:22 13:24	15:17 16:2,6,9	46:10 48:16 63:4	45:20 46:10,24
pressure 36:17	14:2,11 80:2	26:15 31:15,19	68:23 77:7 80:16	58:15 59:20 62:8
59:13	82:24	39:3 50:13,24	83:20 91:22 92:7	62:10 64:8,9
presumably 103:12	processing 8:11	56:18 66:1,8 68:5	101:19 102:11	68:15 70:8 71:14
pretty 62:17 74:18	products 99:4	69:18 72:17,21	103:12 104:2,20	75:7,16,17,20
77:24 89:16	professional 46:3,7	84:13 87:12 91:20	<b>public's</b> 56:12	80:21,23 84:15
prevent 50:18 57:9	52:3,4 71:23	91:20 92:11,21	published 73:3	85:11 92:13 94:18
66:10 69:19,20	92:14 93:4	97:17 104:6	pulmonary 62:21	94:18 95:2,5,10
87:20 99:23	professor 24:2	prosperity 104:4	purchased 56:17	95:14 98:22 102:2
prevention 85:12	84:21	protect 27:18 28:6	purity 95:6	quantity 23:11
previous 72:13	profile 15:23 71:2	33:4,5 38:23	purpose 6:8 8:13	quarried 14:15
77:23 89:1 91:6	<b>profits</b> 68:24	41:24 43:3 59:10	12:10 15:11,16	quasi-legislative
previously 83:21	program 94:4	71:14 73:22 76:20	18:16 26:3,10	7:13
83:23 103:15	progressed 69:9	77:2,10 80:14	27:3 94:13	question 29:24
primarily 18:3,11	project 6:20,22	87:4 91:8 92:6	pursuant 6:17	47:16 59:1 78:1
primary 13:15	8:18 9:2 12:12,22	94:13 95:15 98:5	pursued 40:6	questions 18:13
50:21	13:16 14:4,23	98:7,8 99:17,18	<b>push</b> 36:15	21:20 34:23 38:20
Principle 36:14	16:18 19:23 21:12	101:1,3	<b>put</b> 41:21 47:22	81:10
prior 8:15 68:20	23:4,21 25:15	protected 26:1 30:4	49:20 54:1 90:21	quickly 10:2 18:4
priority 68:22 69:1	26:3,15 27:3,9,17	35:5 80:18	puts 52:17 59:3	27:18
pristine 74:18	27:21 28:1,4,12	protecting 39:9	60:11 80:5	quite 48:8 88:11
Pritzker 31:24	31:16,20 32:14	<b>protection</b> 1:1 2:2,6	putting 54:13 58:23	quote 26:5 63:17
privacy 22:9	33:23 38:7 45:17	2:8,9 6:5 11:12	97:19 99:21	<b>quotes</b> 34:17
probability 28:12	50:13,14 52:12,20	13:19 34:8 42:17	put-ins 51:3	
33:20 75:5	53:24 54:7 58:14	68:21 78:16 95:18	puzzling 34:4	<u> </u>
probably 39:3	58:21 65:8 66:1,8	protects 29:22	p-r-e-d-m-o-r-e	Rachael 5:2 100:4
± v		<b>*</b>	*	l



radar 99:6	record 6:2 10:17	94:18	27:2 28:5 33:7	research 34:16,17
radium 93:10	13:1,3 19:11,12	regulations 7:20	43:4 45:22 77:17	82:17,20
radius 53:8	20:8 21:8,23	8:21	81:12 91:5	reserve 18:14
rafting 67:18	66:22 67:6,9	regulatory 81:3	remove 32:1 47:1	reside 38:12
raging 85:2	71:21	<b>Rehn</b> 4:13 80:11,13	48:13,14 49:19,21	resident 56:14 88:4
rain 65:18 67:17	recorded 106:5	81:9,17,22 82:6	71:14 85:20,21,21	91:17
71:1	records 71:10	82:11	85:22 86:3 100:11	residents 74:9
rainfall 37:8	record-breaking	reinforce 45:7	removed 10:14	resist 15:10
rainstorms 68:11	100:14,15	reiterate 92:10	15:1 27:22 53:23	resistance 96:15
raised 11:3 18:8	recreation 8:10	reject 45:19 54:10	68:9 79:21	resolution 23:6
21:24 52:7	37:6 46:10 58:21	59:13 78:17 84:24	removing 27:4 50:4	53:20
Rancuret 3:12	80:23	91:19 100:9	86:1	resolve 87:14
35:19,19	recreational 23:12	rejected 72:5	rent 86:23	resource 12:2
-		U		
range 26:19 103:23	27:8 28:18 31:22	rejection 93:22	repeat 23:20	47:18 68:16 87:4
rapid 71:5	32:14,20 36:22	relate 16:22	repeatedly 94:9	resources 11:8
rapidly 71:3	43:12 47:1 48:3	related 6:12 12:11	95:15,17	30:21 37:18 44:14
rate 92:1	50:17 55:16 65:22	31:15	repetition 18:1	92:16 94:8
reaches 27:13,15	73:19 79:21 80:3	relates 12:18	replaced 69:14	respectful 16:24
84:3	85:11 92:7,16	relation 90:15	report 70:23	17:20
read 21:9 22:1,8	red 67:22	relative 93:3	reporter 19:10,14	respectfully 42:16
70:23	redistribute 28:16	relatively 83:10	19:19 20:15 24:5	60:10
reading 21:5	75:7	release 11:15 32:5	42:14 50:11 75:23	responding 6:11
ready 7:22	redox 82:21 83:7	87:22	79:17 84:20	response 21:22
real 21:4 61:13	83:15 84:9	released 46:14 64:8	<b>REPORTER'S</b>	104:14
66:6 85:10,14	reduce 26:23 50:23	66:7 99:20	106:1	<b>responses</b> 11:3 17:6
100:23	62:8,11 84:4	releasing 57:10	represent 11:19	34:24 69:4
realistic 79:10	reduced 26:16	relevant 10:16 11:3	representative	responsibility
really 25:1 41:16	106:6	17:6 18:8 36:2	29:15 74:12	12:18 86:19,20
55:15 57:13 68:14	reflects 24:9 75:16	83:19	representatives	95:8
97:7 101:11	refusing 87:20	relief 40:2	33:11 68:24	responsible 95:5
reason 85:10,14	regard 72:19	relocate 45:4	representing 20:10	responsiveness
98:4	regarding 1:6	relocating 26:20	20:11 24:3 89:9	11:1 18:10
reasons 66:13	11:20 12:7,13	relocation 27:22	<b>Republican</b> 70:20	restaurants 62:17
<b>Rebecca</b> 4:18 89:7	21:20 24:20 64:19	54:7 72:21 73:11	request 7:23 14:10	restore 95:6,10
89:8 90:8	72:12	rely 57:20	42:16	102:13
received 9:7,21	regards 44:22	relying 98:3	requested 14:5	restricting 36:24
10:20 13:2 14:10	72:10	remain 54:2	requesting 79:9	restrictive 23:10
19:1 22:4,5,6,7	region 42:11 103:9	remains 23:8	require 27:5 28:5	result 14:3,20
receives 9:18	Regional 72:2	remarks 103:3	33:24	23:10 26:16 45:11
reckless 98:16	Register 94:17	remedial 45:1	required 21:24	72:17
recognize 24:13	registered 22:12	remember 76:16	22:2,8 80:24	resulting 14:17
recognizes 11:8	93:5 104:12	88:15	requirements 8:6	45:13
recommend 39:7	regularly 25:24	remind 21:3,19	8:19 26:13 74:23	resuspended 14:16
39:11,19	28:24 47:14	44:7 55:19 104:24	94:10 102:4	16:15
recommendations	regulated 14:2	105:4	requiring 27:16	resuspending 28:13
54:6	regulation 85:13	removal 16:3 26:21	37:1	retaining 99:22
			<u> </u>	



retired 38:11	11:11,11,16 13:17	95:8,10,12,16,20	55:20 90:24	39:10 43:9,13
return 66:5 91:3	14:6,20,22 16:15	95:22,24 96:4	<b>ruin</b> 61:4 65:22	50:5,22 51:19,20
94:11	23:5,10,11,16,22	97:3,8,22,24	rule 59:15	55:12 58:17 61:7
reveals 45:1	25:16 26:6,20	101:8,21,22	rules 6:9 14:13 54:7	61:12,16 65:22
reverse 96:3	27:10 28:6,14,19	102:13 103:6	92:4	68:16 70:2 77:7
review 10:19 11:13	28:24 30:7,9,20	riverbank 12:12	<b>run</b> 15:19 62:3	79:2 83:24 94:4
44:24 51:1 93:22	31:1,17,18,19,21	15:5 16:4 27:12	76:18,22 91:4	94:12 95:4,8,17
102:9	32:2,4,6,10,22	30:16 31:15 32:4	running 93:6 96:16	95:20,24
reviewing 7:6	33:1,5,6,19,21	32:18 34:1 38:19	<b>runoff</b> 16:8 69:19	scheme 41:14 93:18
14:12 28:1	34:3 35:10,14,22	44:10 50:12 52:11	<b>runs</b> 6:9	schemes 95:19
<b>Rex</b> 2:7 13:10	36:8,10,12,13,19	52:18 54:11 56:18	<b>r-a-c-h-a-e-l</b> 100:5	school 22:21 53:18
<b>Rhoads</b> 3:6 22:16	36:20,24 39:1,10	60:9 62:6 65:4	r-a-n-c-u-r-e-t	99:1
23:24 24:1,1,6	39:20 40:16,18	70:16 84:2,9,14	35:20	science 99:2
60:21	41:2 42:8,8,9,21	97:17	<b>r-e-h-n</b> 80:13	scientists 100:22
rich 83:9,12	43:9,13,21,23	riverbanks 60:15	<b>r-e-i-l-l-y</b> 100:5	scope 52:17
<b>Richart</b> 3:7,11	44:1,6,15,18 45:3	83:18	<b>R-h-o-a-d-s</b> 24:6	scope 32.17 seal 42:1
22:17 25:20,21	47:1,17 48:6,18	riverbed 15:5 16:4	<b>r-i-c-h-a-r-t</b> 25:21	search 104:8
27:24 33:10,13	49:3,5,11,11,14	34:1 64:6 87:22	33:14	seasons 28:21
<b>Rickey</b> 4:12 79:6	49:16,17,18,22	riverbeds 29:3	<b>R-i-c-k-e-y</b> 79:6	seat 20:2
rid 97:12	50:4,5,17,18,21	rivers 24:11,16		seated 12:16
ride 88:15	50:22 51:6,7,8,19	25:5 32:10 40:13	S	second 7:7 20:6
riffle 76:6,7,12	52:21,23 53:1,4,9	40:22 58:17 60:19	sacred 101:1,3	35:6 73:4 74:11
right 6:23 7:8 14:22	53:9,23 55:10,12	61:7,16 69:12	sad 66:4	78:9 79:20 85:7
18:14 20:3 30:1	55:19 57:11,20	80:13 95:17	safe 45:22 47:16	89:23
40:23 45:19 46:22	58:12,13,19 59:2	riverside 52:10	54:2 63:20 68:7	seconds 21:3 27:23
46:23 53:17 54:12	59:7,19,20 60:16	RiverWatch 75:10	76:19 98:15	39:16 51:24 54:3
59:13 65:9 80:4	60:22 61:2,12	75:17	safely 49:6 77:15	61:23 64:3 70:5
90:18 96:17	64:8,20,21,23	river's 16:14 38:5	safer 38:7	74:7 77:9 78:22
104:10	65:3,6,10,13,15	43:2 85:10 92:23	safety 63:16 68:2	84:5
rip 85:2	65:18,22,23 66:12	road 15:18 85:15	69:1 92:13,19	Secretary 94:3
ripped 49:14 74:20	67:18,19 68:7,16	85:16	salary 86:8	section 1:6 6:17 7:1
rip-rap 15:4,8 32:3	68:21 69:14 70:2	<b>Rob</b> 91:11	Samples 29:2	7:4,9 8:14 12:21
32:8,12 43:8	70:3,4,15 71:3,6,7	<b>ROBINSON</b> 4:2	sampling 76:1	13:15,20 14:1,7
47:23 53:5,16	72:22 73:20 74:16	59:17	sampling/monito	22:2 29:3 31:13
61:9 65:20 74:3	74:19,19 76:2,18	rock 53:7,12 60:12	52:13	33:6 50:22 51:7
85:9,14 94:15	77:3,7,11,15 78:8	69:18,19,20,22	satisfy 104:9	65:23 67:20 72:10
rise 71:3	78:11,16 79:2,23	70:2,3	saving 66:20	72:14
risk 38:8 86:5	79:24 80:4,17	rocks 61:11 76:7	saying 29:22 58:1	sections 8:7 37:17
90:17 91:22 92:6	81:6 83:3,24	role 13:15	says 27:11 70:24	37:23 45:13 74:20
97:2 98:23 99:19	84:11 85:2,18,23	room 10:11 19:15	71:8	92:17 93:3
risking 27:19	86:22 88:17,17,18	21:13 89:17	scar 32:19 53:5	secure 30:6
risks 28:3 73:22	88:21 90:15,17	root 53:22	81:5	sediment 28:23
74:6 93:11 96:17	91:1,2,3,7,9 92:2	<b>Rossville</b> 91:18	scattered 53:5	35:14 36:19 57:10
risky 23:15	92:17,21 93:12	round 60:13	scenario 83:19	83:20 84:2
<b>Rita</b> 22:4	94:4,4,12,14,18	row 20:2	scenic 11:11 31:19	sedimentation 35:8
river 1:8 6:24 11:9	94:22,23 95:1,3,4	rubble 45:8 49:24	33:5 36:24 38:24	81:2 92:2
11101 1.0 0.27 11.7	77.22,23 73.1,3,4	1 00010 70.0 70.27		01.2 72.2



sediments 28:14	service 9:20,20	69:5	<b>solution</b> 23:8 29:22	104:22
32:5 34:3 35:13	40:1 78:10,18	<b>silence</b> 13:5,8	30:5,15 31:4	specifically 25:9
35:16 58:15 75:6	services 51:10	<b>siloed</b> 37:17	37:20 38:4 39:7	34:6 56:17 72:9
75:7	104:3	silt 34:10 62:6 85:6	39:22 43:1,3	95:19
see 24:10,14 26:1	session 35:21	similar 46:18	45:18 46:17,21,24	specifics 103:1
28:23 36:19 37:15	set 38:4	<b>simple</b> 53:21	49:19 50:4,13	<b>speed</b> 36:17 85:6
42:3,5 46:16,19	setback 73:12	simply 89:1	53:21 56:1 57:9	<b>spell</b> 20:16,17,18
55:8,20 61:12,13	settle 28:24 87:19	sister 28:20	57:23 58:3,7 68:6	22:18 24:4 31:10
61:14 62:15 74:18	severe 71:12	sit 25:17	68:14,15 74:9	42:14 62:23 67:5
74:19 76:4,10	sewer 55:14	site 14:18,23 46:18	78:2,5,6 79:10,11	67:8 102:22
80:16,18 92:18	Sexton 22:7 90:7	47:2,10 51:2,5,14	80:7 87:3,16	spelled 9:12 33:13
97:19 104:8	shadow 49:5	63:11 66:3 74:12	89:21 97:17 98:1	94:13,17
seeds 15:22	shadows 46:4	95:22,23 97:21	solutions 32:9	spellings 20:17
seeing 38:4 43:20	shallow 48:7	102:13	37:12	spend 57:1,14
52:16 101:22	shaped 15:5	sits 98:12	solvable 98:14	spending 57:14
seen 24:21 52:10,14	<b>share</b> 55:3,4 64:18	sitting 41:3 62:5	solves 98:1	spent 38:12 46:5
55:11,12,13 58:19	shared 35:1	69:12 90:4	someone's 22:9	60:5 90:12,12
58:20 71:3 85:2	Sharon 4:23 22:5	situation 103:19	somewhat 17:14	99:1
99:7	97:15	six 59:6	Soon 79:23	spikes 71:5
seepage 45:10	shattered 41:15	sketch 38:16 40:4	sorry 90:9	spill 27:19
87:14	Sheet 34:5	<b>skin</b> 68:1	sort 24:9,10 36:11	spillover 37:6
seeping 99:23	Shepherd 3:22	slope 15:6 27:13	48:9	spiritual 55:4,17
seeps 29:3,7 84:3	54:19,20,20	sloped 15:14	sought 6:21	splashing 67:19
selection 51:2	<b>shoe</b> 49:15	slow 51:7 61:2	<b>source</b> 45:22	68:3
selenium 82:22	<b>shoes</b> 49:15	75:22 79:16 84:20	south 56:17 103:11	spoke 105:11
83:6	shore 85:2	slowly 21:9	Southeast 99:2	spot 20:3
semi 85:5	shoreline 52:12,21	slump 74:20	so-called 90:19	spreading 45:16
senior 86:16	53:16	small 65:16 82:3	<b>space</b> 36:16	spring 78:20
sense 85:11	shoring 49:20,22	91:18	spaces 77:2	Springfield 2:3
senses 92:9,23	short 10:13 28:3	smaller 27:17	span 81:23	9:22 10:5 13:20
sensitive 39:15	39:4,6 46:9 68:7	<b>Smith</b> 4:10 75:1,3,3	speak 17:17 20:7	square 60:13
83:15	76:22 87:16 89:5	75:24 77:10	22:12 47:8 54:22	stabilization 1:8
sent 9:10,24 24:22	90:21 99:24	social 56:14 87:18	56:16 58:8 60:12	6:22 12:12 14:21
70:19 105:5	shortcoming 45:2	soil 14:16 15:12,16	81:10 82:16 88:7	15:1,3,15,18,20
sentences 28:1	short-lived 53:13	32:5 66:7,10	104:12	15:23 26:3,6 27:5
separate 24:18	53:16	85:22 99:12	speaker 17:5 18:19	27:6,16,21 28:6
39:20	<b>show</b> 74:15	soils 27:7 28:13	103:2	29:21 31:16,20
separating 25:14	showed 29:8	33:20 34:2 35:7,9	speakers 19:5	32:8 36:2,5 38:7
36:11	shows 40:2 71:5	35:16 75:6	speaking 21:11	38:20,21 39:4
separation 38:23	shrubbery 45:8	solace 77:3	23:2	44:9 49:9,17
39:8	side 43:17 52:15,17	Solecki 3:15 42:13	Specialist 2:8	50:12 52:20 53:12
serious 38:20 99:19	74:18 85:20	42:15,15	species 59:18 79:13	53:24 56:19 58:16
99:19	sides 53:11	solid 83:12	79:19	60:9 64:5,10 65:8
seriously 44:4	significant 38:22	solids 16:15	<b>specific</b> 6:12,20	66:16 69:23 70:18
93:21	significantly 84:8	solubility 83:7	9:14 12:13,23	73:2,13 77:18,23
serveral 51:2	signs 10:7,10,14	<b>soluble</b> 83:10	44:22 82:20	81:5 84:13 85:1
		l	l	l



07.2.1(.21.00.1		G4 1 1122422	(0.17	50 01 (0 1 71 1(
87:3,16,21 89:1	staying 62:13	Studer 1:13 2:4 3:3	sums 62:17	59:21 62:1 71:16
89:23 90:15,19	steady 30:16	6:1,4 10:3 16:21	sunlight 62:10	86:18 87:20 91:3
97:18 100:10	stenographically	20:22,24 21:23	sunny 67:15	92:15 100:12,12
104:5	106:5	22:24 23:23 24:4	supplies 8:11	104:7
stabilizing 104:9	stick 46:8 100:10	25:19 27:23 30:11	support 77:17 91:5	taken 1:12 29:2
stable 90:20	stirred 62:4	31:6,10 33:9,11	supposed 56:4	48:13 69:6 70:15
staff 2:6 6:13 7:6	stockholders 86:4,5	35:18 39:16 40:3	sure 10:9 37:24	70:16,17 71:18
13:9 18:12	stone 14:15 15:11	40:8 42:13 44:7	82:6 103:16	74:13 96:20 106:4
stage 16:6	40:22 53:5	45:24 47:4 48:20	surface 83:11 102:1	takes 30:16
stakes 14:15	stones 43:8	50:6 51:24 54:3	surrounding 47:20	take-out 51:4 75:12
stand 43:19 89:22	<b>stood</b> 60:21	54:18 56:8 58:9	surrounds 76:21	take-outs 51:3
standards 8:4	stop 54:4 61:1,20	59:14,23 61:23	Survey 70:23 71:4	talk 48:2 56:16
13:14 14:13 16:19	95:9,22 100:18	62:19,23 64:3,12	71:8	67:3 80:1 90:14
31:21 45:12 94:21	stopgap 45:9	64:15 66:22 67:5	Surveying 52:5	talked 30:20,21
94:22 102:2	storage 32:1	67:8 70:5,9 71:16	surveyor 52:4	talking 41:18 52:19
standpoint 46:7	stories 49:2	71:20 74:7,22	surveys 52:12	60:7,9 87:11
staring 54:12	storm 34:8 55:14	75:1,22 77:9,20	<b>survive</b> 62:12	targeted 81:4
start 42:4 56:11	story 75:9	78:22 79:3,16	Susan 4:20 91:13	task 53:20
62:13 85:20	straight 37:24	80:10 81:7 82:10	91:15,17	tax 86:3
104:17	stream 15:6 44:21	84:5,17 86:10	suspended 35:9	taxpayers 86:7,8
started 22:14 48:24	51:16 75:6,17,18	88:2,7,13,23 89:3	76:11	teaching 99:1
59:11	76:7,8,14 87:23	89:7 90:6 91:10	suspending 75:5	team 75:11 76:10
starts 85:24	streambank 6:21	93:6,24 96:1,6	sustainable 28:11	technical 103:16,21
state 1:14 7:19 13:3	14:21 15:1 26:6	97:14 100:3 101:4	Suzanne 4:10 75:1	Ted 3:21 52:2
14:1,13 16:8 20:8	33:18 44:19 45:8	102:15,18,22	75:3	teenagers 47:13
28:9,10 29:15	49:9 52:20 53:12	104:11,15	swept 92:21	99:8
31:19 32:19 37:7	53:24 54:9 65:8	stuff 96:23	swift 65:18	tell 75:9 89:23
38:23 46:8 49:22	66:15	subject 12:4	swimming 67:19	100:9
50:10 58:22 70:19	streambed 53:6,7	submit 9:15 17:19	68:3	telling 102:8
71:24 74:9 76:24	Street 1:14	17:22 18:22 105:9	system 24:8,19	temporarily 97:20
78:12 84:14 87:10	stress 8:21	submittals 38:1	27:14 74:3 86:18	temporary 16:11
94:5,7,11,20	stretch 26:6 43:14	submitted 9:3,19	s-h-e-p-h-e-r-d	23:9 27:5,6 28:5
95:23 97:2 103:10	stretching 103:11	19:2 22:2 34:9	54:21	32:9 47:24 49:18
104:2	strong 49:16 55:4	submitting 21:6	<b>s-m-i-t-h</b> 75:4	49:20 50:3 54:5
stated 26:10	63:17	substrate 76:18	<b>s-o-l-e-c-k-i</b> 42:16	57:8 58:3 77:18
statement 21:5,6	stronger 71:1	sufficient 105:5	<b>s-t-u-a-r-t</b> 77:21	78:15 81:4 97:12
statements 16:22	structure 16:11	suggest 78:23 104:7	<b>s-u-z-a-n-n-e</b> 75:3	tennis 49:15
18:2 69:2 91:6	structures 35:15	suggests 75:19		tentative 8:18
states 9:20 32:23	struggles 77:1	99:18 100:18	T	term 28:3 30:6,15
72:15 97:3	Stuart 4:11 77:20	sulfate 29:9	table 12:17 41:4	31:4 38:21 39:4,6
State's 85:12 92:16	77:21	summarizes 23:13	102:20	39:7,21 43:1 46:9
stations 52:13	stuck 48:4 49:24	summary 11:1,2	<b>Taft</b> 3:16 44:10,11	46:18 49:19 68:6
62:16	student 33:2 71:24	12:22 17:22 18:10	44:12	68:7,8 78:2 79:11
statutory 93:2	82:14 89:12 98:20	23:20 103:21	tainted 69:5	87:3,16,17 99:24
stay 39:5 91:8	students 86:22,23	summer 55:6 66:11	take 10:13 20:2	100:1
98:15	88:1 89:9	66:16	29:11 46:22 59:7	terms 100:1



test 34:19	70:22 80:7 96:21	82:10 88:11 89:5	traces 65:2	U
testify 98:21	103:22	89:24 90:13 93:7	tragedy 55:18	<u>U 60:21 86:22 87:2</u>
testimony 101:19	think 24:9,18 25:15	94:7,17,23 95:21	tragic 93:8	88:1
101:20	25:17 28:1 29:21	96:1 99:7 101:2	trailer 85:5	ugliness 61:14
testing 29:7 63:11	30:14,20 36:3,14	104:20 105:6	trails 80:3	ugly 47:23 58:16
63:22 64:1	38:17 39:2 47:22	timed 84:19	transcribed 19:17	61:8
tests 34:19 42:5	55:18 56:6 60:11	timely 18:18	21:10	<b>UIUC</b> 86:15
thank 16:21 23:22	61:15,19 69:13	times 48:7 51:11	transcript 1:12	ultimate 50:3
23:23 25:19 28:6	73:14,14 78:13	63:2 84:23 87:10	19:21 106:4	ultimately 25:16
29:13 31:5,6 33:8	88:21 90:2 92:9	99:13 101:23	transcription 19:20	97:11,12
33:9,10 35:17,18	99:16 103:6 104:1	timing 20:19	transported 83:10	unable 12:7 64:19
35:21 38:9 42:12	thinking 54:14,15	tiny 40:17 59:9	treasure 30:1,3,22	65:14
44:6 45:24 47:3,4	<b>Third</b> 35:7	tipped 49:13	treat 16:24	unanimously 23:7
47:8 48:18,20	<b>Thomas</b> 3:17 46:1	tired 41:8	treatment 52:22	79:8
50:5,6 52:1 54:17	46:2	<b>Title</b> 74:24	tree 85:4	unbelievable 64:4
54:18,21 56:7,9	Thompson 94:3	today 89:9,12 93:15	trees 85:2	uncertain 24:24
58:7,9 59:15,22	Thornton 3:24	94:22	tremendous 47:18	uncommitted 53:19
59:23 60:2,3	58:10,11,11	told 27:11 36:7	tremendously	undercut 32:12
62:18,19,20 66:19	thorough 11:12	49:2 60:22	65:12	undergone 26:8
67:2 68:16 70:8,9	thoughts 76:15	<b>Tom</b> 3:20 50:6,8	<b>Trimble</b> 4:6 66:24	underlying 72:8
70:21 71:15 74:21	thousand 65:20	tonight 6:8,14	67:1,2,7,10,10	undermined 78:20
74:24 77:19 79:2	99:13	10:11 16:22,24	trip 50:21	underneath 61:3
79:3 80:10,15	thousands 23:16	18:11 30:13 33:12	truck 85:5	understand 18:13
81:22 82:11 84:16	32:23 47:19	34:13,22 47:8,20	true 52:17 106:3	36:1 37:16 38:3
86:10,12 88:1,2	threat 12:1 34:6	54:22 55:1 56:5	truly 104:8	40:15 48:1
90:5 91:9,10	44:19 50:14	56:16 64:17 72:4	try 22:9 103:20	understanding
93:24 96:4,6	threaten 11:15	72:8 75:9 86:13	trying 60:12 97:6	44:14 103:17
97:14 98:17 100:2	threatening 53:22	101:24 102:5,17	tubers 75:13	undertaken 7:5
100:3 101:3,4,12	69:9	103:2	tubes 61:18	unfortunate 98:11
101:20 102:5,13	threatens 100:11	tonight's 6:7 8:24	tumors 99:8	unfortunately 54:7
102:15,16,19	three 20:4 22:15	12:5,10,15,24	turbidity 66:9	64:23 67:20
104:10,11,16,19	26:17 56:21 66:17	44:8	turbine 41:14	<b>unique</b> 11:8 12:2
104:22 105:10,10	72:20 80:24 87:9	tons 60:16 69:11	turn 89:18	95:23
105:10,12	throw 53:19	<b>Tony</b> 4:9 71:21,22	<b>two</b> 26:17 40:22	United 9:19 32:23
thanking 56:11	throws 85:18	total 27:12 87:9	63:9,12,24 65:20	University 24:2
<b>Thanks</b> 93:23	time 8:17,24 12:7	totally 94:15	77:22 80:22 87:10	33:2 72:1 82:14
Theodore 52:1	13:5 17:14 18:8	tough 76:24	99:1 101:7	84:22 86:16 89:10
thick 36:11	18:19 19:3 20:4,6	tourism 80:6	typewriting 106:6	98:20
thin 54:1	20:6 21:18 23:14	<b>Tourists</b> 62:13	typically 10:10	unmaintained 78:7
thing 42:1 45:19	33:3 39:16 40:3	town 91:18	22:9	unnatural 52:22
52:22 55:15 59:14	46:5 47:3 51:22	<b>toxic</b> 26:21 32:7	<b>t-a-f-t</b> 44:12	53:13
61:13 74:11 89:19	53:1,14,18 54:4,5	36:21 44:17 63:5	t-h-o-r-n-t-o-n	unnecessary 18:1
96:16 104:10	57:1,14 60:4 64:12 66:20 74:22	69:3,11 70:15	58:11 t o n y 71:22	unpredictable 25:5
<b>things</b> 24:14,15,23 25:10 30:12 46:13	76:14,23 77:11,16	76:21 82:17 83:22	<b>t-o-n-y</b> 71:23 <b>t-r-i-m-b-l-e</b> 67:11	unruly 17:9
48:3 61:7 62:9	77:19 78:19 80:16	87:6,14,22 toxins 64:2	t-t-t-t-tt-tt-tt-tt-tt-tt-tt-tt-tt-tt-t	<b>unsafe</b> 37:1 46:14
+0.3 01.7 02.7	//.17/0.17/00.10	WAIIIS 04.2		



$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	8:18
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	8:18
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	8:18
uphill 85:20         103:9         warm 67:15         waters 7:18 16:8         98:18           upland 16:7 44:5         version 46:18         warming 100:21         38:23 39:9 71:6         91:33 92:3,6 99:5         79:5,6,18           rots         versions 72:20         warming 68:2 69:5         91:33 92:3,6 99:5         79:5,6,18         williams 4:12           urban 55:20 72:2         versions 72:20         warant 17:10         waters 7:18 16:8         98:18           urban 55:20 72:2         versions 66:4         washig 76:13         41:3,4         wind 41:14           98:19         view 39:6 104:7         washed 35:17         waterswhed 40:11         wins 53:4           urge 127:18         35:19 91:14 93:24         73:24 95:11,13         94:2         wises 93:18,18           use 23:4,22 25:10         Vining 4:18 89:7,8         wastes 93:18,18         65:23 71:13 82:6         Wolfe 3:10 31:           34:10,13 35:9         89:8 90:8         wastes 93:18,18         65:23 71:13 82:6         Wolfe 3:10 31:           32:0 79: 1 92:16         58:15,22 95:16         6:18 71: 8:48,9         87:7 96:13,15         31:12           use 23:11,12 28:18         45:11 102:1         11:5 12:2,11,14         waste 53:20         wonder 49:9 6           use 23:44,9;11,16         violation 33:16 <td< th=""><th></th></td<>	
upland 16:7 44:5 upstream 75:21version 46:18 versions 72:20 versus 56:23 versus 56:24 versus 56:25warming 100:21 38:23 39:9 71:6 91:23 92:3,6 99:5 101:1,3 watershed 40:11 wind 41:14 wind 41:14 wind 41:14 wind 41:14 wind 41:14 wise 39:6 104:7 viewing 66:4 wase 26:21 69:10 35:19 91:14 93:24 99:4waterway 41:19,19 waterway 41:19,19 wins 53:4 water 26:21 69:10 Waukegan 55:7 way 24:7,10,14,19 withold 28:4 wise 89:13 wise 48:12.11 withold 28:4 wises 89:13 wises 90:8 wasted 53:3 wasted 53:10Williams 4:12 with 63:12 wasted 53:3 wasted 53:3 wasted 53:3 wasted 53:3 wasted 53:3 waste 50:17 will with 57:16 with 33:122 with 33:122 with 33:122 with 33:122 with 33:122 with 33:122 with 33:122 with 33:122 waste 53:14 waste 53:14 week 43:15 week 43:15 <b< th=""><th>79:4</th></b<>	79:4
upstream75:21versions72:20warning68:291:2392:3,699:579:5,6,1876:12versus56:23vertical15:7warrant17:10101:1,3willow15:13urban51:2072:2vertical15:7washed35:17watershed40:11wind41:3,4wind41:1498:19view99:6104:7Wasserman4:14wasterway41:9,19wise89:53:4wrge31:991:1493:2473:2495:11,13waste78:12wise89:13urge23:4,2225:10Vining4:1889:7,8waste92:1438:741:2448:8withstand85:134:10,1335:989:890:8wastes93:18,1865:2371:1382:6Wolfe31:12wonder49:1661:3,1531:1233:10sig89:890:8wastes93:18,1865:2371:1382:6Wolfe31:1231:1231:20violation33:16water1:661:1,16100:11wonder48:22Wolfe31:1231:2335:492:1410:1111:512:2,11,14ways27:254:638:1031:2335:492:8virtu37:1712:19,2113:14,1665:14work33:1031:2335:492:8vistors32:1657:2016:18,2217:4web9:2254:23<	79:4
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
urban 55:20 72:2 Urbana 31:8 67:2 98:19vertical 15:7 viable 26:21 view 39:6 104:7washed 35:17 washing 76:13watershed 40:11 41:3,4win 53:1 wind 41:1498:19 urge 31:9,13 87:23 89:20 91:2view 39:6 104:7 viewing 66:4Wasserman 4:14 82:12,12 84:6 vaste 26:21 69:10waterway 41:19,19 78:12wins 53:4 wise 89:13urgent 27:18 usge 8:9 102:394:2 $73:24 95:11,13$ 99:4 $38:7 41:24 48:8$ withold 28:4withold 28:4 withold 28:434:10,13 35:9 37:5 43:12 47:1 violate 31:2089:8 90:8 violation 33:16wasted 53:3 wastes 93:18,18 wastes 93:18,18 wastes 93:18,18 $49:17 61:3 64:23$ withes 31:12withesing 41: withesing 41:33:23 35:4 92:8 uses 23:11,12 28:18 31:23 35:4 92:8 violations 32:16 57:16 visual 66:11 utility 68:20,23violations 8:3,5 visitors 32:16 57:20 visitors 32:16 57:20 visitors 32:16 57:2081:1,14 10:21 16:18,22 17:4 25:15,18 26:14 week 48:4Ways 27:2 54:6 65:14 week 53:20 week 48:4 week 48:438:10 25:21 36:12 4 week 48:4V vacations 56:24 value 48:3 55:16wading 67:1929:20 31:14,20,23 39:3,12,17 40:19week 8:22 week met 6:7 weekome 6:7 working 41:13	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
urge 31:9,13 87:23 89:20 91:2viewing 66:4 Vince 3:12 4:21 $35:19 91:14 93:24$ 82:12,12 84:6 waste 26:21 69:10 $73:24 95:11,13$ $99:4$ 78:12 Waukegan 55:7 way 24:7,10,14,19 $38:7 41:24 48:8$ $49:17 61:3 64:23$ $49:17 61:3 64:23$ withstand 85:1 withstand 85:1 withstand 85:1 withstand 85:1 withstand 85:1 $99:4$ Waukegan 55:7 way 24:7,10,14,19 $38:7 41:24 48:8$ $49:17 61:3 64:23$ $49:17 61:3 64:23$ $49:17 61:3 64:23$ withstand 85:1 $31:20$ $112 53:8 65:12 68:7$ $125:8 65:12 68:7$ $111 102:1$ $11:5 12:2,11,14$ $11:5 12:2,12,1211:15 12:2,12,1211:15 12:2,12,1311:15 12:2,12,1311:15 12:2,12,1311:15 12:2,12,2311:15 12:2,$	
89:20 91:2 urgent 27:18 usage 8:9 102:3 34:10,13 35:9Vince 3:12 4:21 35:19 91:14 93:24 94:2waste 26:21 69:10 73:24 95:11,13 99:4Waukegan 55:7 way 24:7,10,14,19 38:7 41:24 48:8 49:17 61:3 64:23 49:17 61:3 64:23 49:17 61:3 64:23wishes 18:21 withold 28:4 withstand 85:1 withstand 85:1 with 23:10 31: 37:5 43:12 47:153:8 65:12 68:7 73:20 79:1 92:16violation 33:16 58:15,22 95:16wastes 93:18,18 65:23 71:13 82:665:23 71:13 82:6 100:11Wolfe 3:10 31: 31:1253:8 65:12 68:7 violation 33:16violation 33:16 58:15,22 95:16water 1:6 6:12,16 6:18 7:1 8:4,8,9100:11 48:22wonder 49:9 6 38:10users 50:17 users 23:11,12 28:18 31:23 35:4 92:8 utilty 68:20,23 Vist 57:16violations 8:3,5 45:11 102:111:5 12:2,11,14 11:5 12:2,11,14 12:19,21 13:14,16 13:20,24 14:13 weak 53:20work 13:18 24 25:21 36:12 4 48:22V voice 21:12 voice 21:12 voice 21:12 void-filled 15:4,8vist 57:16 29:20 31:14,20,23 32:6,11 34:8 35:4 week 11:17workd 43:15 workd 43:15V worked 43:15 works 53:18 07:19W 39:3,12,17 40:19week of 6:7 welcome 6:7 welcome 6:7work 13:18 24 worked 43:21	
urgent 27:1835:19 91:14 93:2473:24 95:11,13way 24:7,10,14,19withhold 28:4usage 8:9 102:394:299:438:7 41:24 48:8withstand 85:1use 23:4,22 25:10Vining 4:18 89:7,8wasted 53:349:17 61:3 64:23witnessing 41:34:10,13 35:989:8 90:8wastes 93:18,1865:23 71:13 82:6Wolfe 3:10 31:37:5 43:12 47:1violate 31:20wasting 53:18 54:487:7 96:13,1531:1253:8 65:12 68:7violation 33:16water 1:6 6:12,16100:11wonder 49:9 673:20 79:1 92:1658:15,22 95:166:18 7:1 8:4,8,9Wayne 3:19 48:20wonderful 53:users 50:17violations 8:3,58:11,14 10:2148:22Woodrow 3:13uses 23:11,12 28:1845:11 102:111:5 12:2,11,14ways 27:2 54:638:1031:23 35:4 92:8virtue 37:1712:19,21 13:14,1665:14work 13:18 24usual 66:11visit 57:1613:20,24 14:13weak 53:2025:21 36:12 4utility 68:20,23visitors 32:16 57:2016:18,22 17:4web 19:2254:23 55:14 60.S 7:4 34:9,11,16visual 65:2121:19 24:17,20,23weeks 48:494:23 103:24voice 21:1228:15,22,23 29:6week 11:17worked 43:15vacations 56:24void-filled 15:4,829:20 31:14,20,23weekend 56:22working 41:13value 48:3 55:16wading 67:1939:3,12,17 40:19welcome 6:7world 76:23	
usage 8:9 102:3       94:2       99:4       38:7 41:24 48:8       withstand 85:1         use 23:4,22 25:10       Vining 4:18 89:7,8       wasted 53:3       49:17 61:3 64:23       witnessing 41:         34:10,13 35:9       89:8 90:8       wastes 93:18,18       65:23 71:13 82:6       Wolfe 3:10 31:         37:5 43:12 47:1       violate 31:20       wastes 93:18,18       65:23 71:13 82:6       Wolfe 3:10 31:         53:8 65:12 68:7       violation 33:16       water 1:6 6:12,16       100:11       wonder 49:9 6         73:20 79:1 92:16       58:15,22 95:16       6:18 7:1 8:4,8,9       Wayne 3:19 48:20       wonderful 53:         uses 23:11,12 28:18       45:11 102:1       11:5 12:2,11,14       ways 27:2 54:6       38:10         31:23 35:4 92:8       virtue 37:17       12:19,21 13:14,16       65:14       work 13:18 24         usual 66:11       visit 57:16       13:20,24 14:13       weak 53:20       25:21 36:12 4         utility 68:20,23       visitors 32:16 57:20       16:18,22 17:4       web 19:22       54:23 55:14 6         Voice 21:12       28:15,22,23 29:6       weeks 48:4       94:23 103:24         value 77:6       wading 67:19       39:3,12,17 40:19       welcome 6:7       work 53:1 80:         world 76:23       39:3,12,17 40:19       welcome	
use 23:4,22 25:10Vining 4:18 89:7,8wasted 53:349:17 61:3 64:23witnessing 41:34:10,13 35:989:8 90:8wastes 93:18,1865:23 71:13 82:6Wolfe 3:10 31:37:5 43:12 47:1violate 31:20wasting 53:18 54:487:7 96:13,1531:1253:8 65:12 68:7violation 33:16water 1:6 6:12,16100:11wonder 49:9 673:20 79:1 92:1658:15,22 95:166:18 7:1 8:4,8,9Wayne 3:19 48:20wonderful 53:users 50:17violations 8:3,58:11,14 10:2148:22Woodrow 3:13uses 23:11,12 28:1845:11 102:111:5 12:2,11,14ways 27:2 54:638:1031:23 35:4 92:8virtue 37:1712:19,21 13:14,1665:14work 13:18 24usual 66:11visit 57:1613:20,24 14:13weak 53:2025:21 36:12 4utility 68:20,23visitors 32:16 57:2016:18,22 17:4web 19:2254:23 55:14 671:4 73:3vital 23:1725:15,18 26:14weeds 48:494:23 103:24voice 21:12voice 21:1229:20 31:14,20,23weekend 56:22working 41:13valley 77:6wading 67:1939:3,12,17 40:19welcome 6:7world 76:23world 76:2339:3,12,17 40:19welcomes 8:22world 76:23	
34:10,13 35:9 37:5 43:12 47:1 53:8 65:12 68:7 73:20 79:1 92:16       89:8 90:8 violation 33:16 58:15,22 95:16       wastes 93:18,18 wasting 53:18 54:4 water 1:6 6:12,16       65:23 71:13 82:6 87:7 96:13,15       Wolfe 3:10 31: 31:12         users 50:17 uses 23:11,12 28:18 31:23 35:4 92:8 usual 66:11 utility 68:20,23       violations 8:3,5 45:11 102:1       water 1:6 6:12,16 6:18 7:1 8:4,8,9       Wayne 3:19 48:20       wonder 49:9 6 wonder 49:9 6         usual 66:11 utility 68:20,23       visit 57:16 visit ors 32:16 57:20       11:5 12:2,11,14 13:20,24 14:13       wase 53:20 week 53:20       work 13:18 24 25:21 36:12 4         vial 23:17 vacations 56:24 valley 77:6 value 48:3 55:16       vial 23:17 wading 67:19       visit 57:16 visit 57:19       21:19 24:17,20,23 32:6,11 34:8 35:4 32:6,11 34:8 35:4 39:3,12,17 40:19       weekend 56:22 working 41:13 worked 43:21	
37:5 43:12 47:1       violate 31:20       wasting 53:18 54:4       87:7 96:13,15       31:12         53:8 65:12 68:7       violation 33:16       set in 1:6 6:12,16       100:11       wonder 49:9 6         73:20 79:1 92:16       58:15,22 95:16       violations 8:3,5       8:11,14 10:21       48:22       wonder 49:9 6         users 50:17       violations 8:3,5       45:11 102:1       11:5 12:2,11,14       ways 27:2 54:6       38:10         31:23 35:4 92:8       visit 57:16       visit 57:16       13:20,24 14:13       weak 53:20       25:21 36:12 4         utility 68:20,23       visit of 57:20       visit 65:21       16:18,22 17:4       web 19:22       54:23 55:14 4         vial 65:21       vial 23:17       25:15,18 26:14       weeks 48:4       94:23 103:24         vial 23:17       voice 21:12       29:20 31:14,20,23       week 48:4       94:23 103:24         valley 77:6       wading 67:19       32:6,11 34:8 35:4       36:2 38:5,8,23       39:3,12,17 40:19       welcome 6:7       work d3:21	
53:8 65:12 68:7 73:20 79:1 92:16 users 50:17 uses 23:11,12 28:18 31:23 35:4 92:8 usual 66:11 utility 68:20,23 U.S 7:4 34:9,11,16violation 33:16 58:15,22 95:16 45:11 102:1 virtue 37:17 visit 57:16 visit or 32:16 57:20water 1:6 6:12,16 6:18 7:1 8:4,8,9 8:11,14 10:21 11:5 12:2,11,14 11:5 12:2,11,14 ways 27:2 54:6 65:14 weak 53:20 website 7:21 40:1 weeds 48:4 weeds 48:4 94:23 103:24 weeds 48:4 94:23 103:24 94:23 103:24 worked 43:15 worked 43:1550:17 uses 23:11,12 28:18 31:23 35:4 92:8 usual 66:11 utility 68:20,23 U.S 7:4 34:9,11,16 71:4 73:3violations 33:16 57:20 visitors 32:16 57:20 visitors 32:16 57:20 16:18,22 17:4 25:15,18 26:14 25:15,18 26:14 29:20 31:14,20,23 32:6,11 34:8 35:4 36:2 38:5,8,23 39:3,12,17 40:19100:11 Wander 49:9 6 wonder 49:9 6 wonder 49:9 6 wonder 49:9 6 wonder 49:9 653:20 working 41:13 worked 43:15visit 57:16 visit 57:16100:11 weeds 48:4 weeds 48:4 weekend 56:22 weighing 85:4 working 41:13 worke 43:1571:4 73:3 waley 77:6 value 48:3 55:16widing 67:1936:2 38:5,8,23 39:3,12,17 40:19weekend 56:22 welcome 6:7 welcomes 8:22	7,8
73:20 79:1 92:16 users 50:17 uses 23:11,12 28:18 31:23 35:4 92:8 utility 68:20,2358:15,22 95:16 violations 8:3,5 45:11 102:16:18 7:1 8:4,8,9 8:11,14 10:21 11:5 12:2,11,14 12:19,21 13:14,16 13:20,24 14:13Wayne 3:19 48:20 48:22wonderful 53:20 Woodrow 3:13 38:10utility 68:20,23 U.S 7:4 34:9,11,16 71:4 73:3visit 57:16 visit 23:17 voice 21:12 voice 21:12 void-filled 15:4,86:18 7:1 8:4,8,9 8:11,14 10:21 11:5 12:2,11,14 12:19,21 13:14,16 13:20,24 14:13Wayne 3:19 48:20 48:22wonderful 53:20 Woodrow 3:13 38:10V voisit 57:16 visit 57:16 visual 65:21 vital 23:17 voice 21:12 void-filled 15:4,8visit 57:20 25:15,18 26:14 29:20 31:14,20,23 32:6,11 34:8 35:4 32:6,11 34:8 35:4 39:3,12,17 40:19Wayne 3:19 48:20 48:22wonderful 53:20 Weok 13:18 24 Weok 13:18 24 25:21 36:12 4 Week 11:17 Weekend 56:22 Week 11:17 Weekend 56:22 Working 41:13 Weighing 85:4 Weilcome 6:7 Weilcome 6:7 Weilcome 8:22wonderful 53:20 Worle 43:21	
users 50:17 uses 23:11,12 28:18 31:23 35:4 92:8 utility 68:20,23 U.S 7:4 34:9,11,16 71:4 73:3violations 8:3,5 45:11 102:1 virtue 37:17 visit ors 32:16 57:208:11,14 10:21 11:5 12:2,11,14 12:19,21 13:14,16 13:20,24 14:13 16:18,22 17:448:22 ways 27:2 54:6 65:14 weak 53:20 web 19:22Woodrow 3:13 38:10 work 13:18 24 25:21 36:12 4 54:23 55:14 0U.S 7:4 34:9,11,16 71:4 73:3visitors 32:16 57:20 visual 65:21 vital 23:17 voice 21:12 void-filled 15:4,810:18,22 17:4 21:19 24:17,20,23 25:15,18 26:14 29:20 31:14,20,23 32:6,11 34:8 35:4 32:6,11 34:8 35:4 36:2 38:5,8,23 39:3,12,17 40:19Woodrow 3:13 ways 27:2 54:6 65:14V week 11:17 weekend 56:22 working 41:13 works 53:1 80: works 53:1 80: work 36:23 work 36:2 38:5,8,238:11,14 10:21 48:22 week 11:17 weekend 56:22 week 11:17 weekend 56:22 working 41:13 works 53:1 80: work 43:21	
uses 23:11,12 28:18 31:23 35:4 92:8 usual 66:11 utility 68:20,23 U.S 7:4 34:9,11,16 71:4 73:345:11 102:1 virtue 37:17 visit 57:16 visit ors 32:16 57:2011:5 12:2,11,14 12:19,21 13:14,16 13:20,24 14:13 16:18,22 17:4ways 27:2 54:6 65:14 weak 53:20 web 19:2238:10 work 13:18 24 25:21 36:12 4U.S 7:4 34:9,11,16 71:4 73:3visit ors 32:16 57:20 visual 65:21 vital 23:17 voice 21:12 void-filled 15:4,811:5 12:2,11,14 12:19,21 13:14,16 13:20,24 14:13 16:18,22 17:4ways 27:2 54:6 65:14 weak 53:20 web 19:2238:10 work 13:18 24 25:21 36:12 4V visual 65:21 vital 23:17 voice 21:12 valley 77:6 value 48:3 55:16visual 65:21 vital 23:17 void-filled 15:4,811:5 12:2,11,14 12:19,21 13:14,16 13:10,24 14:13 25:15,18 26:14 29:20 31:14,20,23 32:6,11 34:8 35:4 32:6,11 34:8 35:4 39:3,12,17 40:19ways 27:2 54:6 65:14 weak 53:20 web 19:2238:10 work 13:18 24 25:21 36:12 4 weighing 85:4 works 53:1 80: works 53:1 80: worked 43:21	.3
31:23 35:4 92:8       virtue 37:17       12:19,21 13:14,16       65:14       work 13:18 24         usual 66:11       visit 57:16       13:20,24 14:13       weak 53:20       25:21 36:12 4         utility 68:20,23       visitors 32:16 57:20       16:18,22 17:4       web 19:22       54:23 55:14 6         U.S 7:4 34:9,11,16       visual 65:21       21:19 24:17,20,23       website 7:21 40:1       80:13 82:3 83         vital 23:17       25:15,18 26:14       weeds 48:4       94:23 103:24         voice 21:12       28:15,22,23 29:6       week 11:17       worked 43:15         void-filled 15:4,8       29:20 31:14,20,23       weekend 56:22       works 53:1 80:         value 48:3 55:16       wading 67:19       39:3,12,17 40:19       welcome 6:7       world 76:23	
usual 66:11 utility 68:20,23 U.S 7:4 34:9,11,16 71:4 73:3visit 57:16 visit 57:2013:20,24 14:13 16:18,22 17:4 21:19 24:17,20,23 25:15,18 26:14weak 53:20 web 19:22 website 7:21 40:1 weeds 48:4 94:23 103:2425:21 36:12 4 54:23 55:14 0V vital 23:17 voice 21:12 vacations 56:24 value 48:3 55:16visit 57:16 visit 57:2013:20,24 14:13 16:18,22 17:4 21:19 24:17,20,23 25:15,18 26:14 29:20 31:14,20,23 32:6,11 34:8 35:4 36:2 38:5,8,23 99:3,12,17 40:19weak 53:20 week 19:22 week 14:13 weeks 48:4 week 11:17 weekend 56:22 working 41:13 works 53:1 80: works 53:1 80: works 53:1 80: work 43:21	
utility 68:20,23 U.S 7:4 34:9,11,16 71:4 73:3visitors 32:16 57:20 visual 65:21 vital 23:1716:18,22 17:4 21:19 24:17,20,23 25:15,18 26:14web 19:22 website 7:21 40:1 weeds 48:454:23 55:14 ( 80:13 82:3 88) 94:23 103:24V voice 21:12 void-filled 15:4,8voice 21:12 29:20 31:14,20,23 32:6,11 34:8 35:4weeds 48:4 weekend 56:22 weekend 56:22 weighing 85:4 welcome 6:7 welcome 6:7 welcomes 8:22voice 43:15 worked 43:15	
U.S 7:4 34:9,11,16       visual 65:21       21:19 24:17,20,23       website 7:21 40:1       80:13 82:3 83         71:4 73:3       vital 23:17       25:15,18 26:14       weeds 48:4       94:23 103:24         Voice 21:12       28:15,22,23 29:6       week 11:17       worked 43:15         vacations 56:24       void-filled 15:4,8       29:20 31:14,20,23       weekend 56:22       working 41:13         Valley 77:6       W       36:2 38:5,8,23       welcome 6:7       world 76:23         value 48:3 55:16       wading 67:19       39:3,12,17 40:19       welcomes 8:22       worried 43:21	
71:4 73:3       vital 23:17       25:15,18 26:14       weeds 48:4       94:23 103:24         V       voice 21:12       28:15,22,23 29:6       week 11:17       worked 43:15         vacations 56:24       void-filled 15:4,8       29:20 31:14,20,23       weekend 56:22       working 41:13         valley 77:6       W       36:2 38:5,8,23       welcome 6:7       working 43:21         wading 67:19       39:3,12,17 40:19       welcomes 8:22       working 43:21	
V         voice 21:12         28:15,22,23 29:6         week 11:17         worked 43:15           vacations 56:24         void-filled 15:4,8         29:20 31:14,20,23         weekend 56:22         working 41:13           valley 77:6         W         36:2 38:5,8,23         welcome 6:7         world 76:23           value 48:3 55:16         wading 67:19         39:3,12,17 40:19         welcomes 8:22         worried 43:21	:22
V         void-filled 15:4,8         29:20 31:14,20,23         weekend 56:22         working 41:13           valley 77:6         W         36:2 38:5,8,23         welcome 6:7         working 41:13           value 48:3 55:16         wading 67:19         39:3,12,17 40:19         welcomes 8:22         working 41:13	
wacations 56:24         working 41:15           valley 77:6         W           wading 67:19         32:6,11 34:8 35:4           welcome 6:7         work fill 41:15           works 53:1 80:23         welcome 6:7           works 53:12:11         work 53:12:11	<b>39:2</b>
valley 77:6         W         36:2 38:5,8,23         welcome 6:7         world 76:23           value 48:3 55:16         wading 67:19         39:3,12,17 40:19         welcomes 8:22         world 43:21	1 4
value 48:3 55:16         wading 67:19         30:2 58:5,8,25         welcome 0.7         world 70:25           world 43:21         world 43:21         world 43:21         world 43:21         world 43:21	14
	r
	-
	1-11
	2
	,
Vermilion 1:8,13         60:2,3 61:12,13         84:15 88:20 90:17         94:4,12 95:4,8,16         w-i-l-k-e-n 98:           6:24 11:9,16         61:13 67:24 76:16         91:8 92:4,13 93:3         95:19,24         w-i-l-i-a-m-s	
13:17 14:6 23:1,5 78:6 89:20,22 94:18,18 95:2,5 wilderness 77:15 w-o-l-f-e 31:12	19
<b>WINGLING 2011,0 WORD 00120,22 74.10,10 95.2,5 WINGLINESS /</b> 7.15 <b>WORL WORL 1005</b>	19



Page	21
------	----

	<b>164</b> 7:15 22:3,10	74:7 77:9 78:22	<b>56</b> 3:23	
<u>X</u>	<b>1900</b> 6:23 14:21	84:5	<b>50</b> 3.23 <b>58</b> 3:24	
<b>x</b> 3:1 21:1	32:3 45:7	<b>300</b> 40:23	<b>59</b> 4:2	
Y	<b>19276</b> 2:3 10:5	<b>301</b> 8:7	57 4.2	
yards 15:11,16 16:4	<b>1940s</b> 47:10	<b>302</b> 8:5,7	6	
63:6 73:23	<b>1968</b> 94:13	<b>302.105</b> 8:20	<b>6</b> 3:3 6:3 58:20 73:2	
year 23:17 28:21	<b>1975</b> 28:21	<b>302.105</b> 8.20 <b>302.105.f.D</b> 72:15	76:11 97:5 101:16	
56:20 62:2 78:5	177520.21	<b>303</b> 8:7	<b>6:00</b> 1:15	
92:1 97:5 100:14	2	<b>306</b> 8:7	<b>60</b> 4:3	
yearly 64:21	<b>2</b> 8:5 15:6 20:19,21	<b>307</b> 8:8	<b>62</b> 4:4	
years 32:23 38:13	20:22 21:3 26:4	<b>31</b> 3:10	<b>62794-9276</b> 2:3	
46:20 48:24 57:22	43:6 44:4 45:7	<b>33</b> 3:11	10:5	
62:6 65:1 66:3	47:9 65:11,20	<b>35</b> 3:12 7:14,15 8:1	<b>63</b> 73:4	
67:13 69:6 70:14	73:5 84:19 101:16	8:4,19 74:24	<b>64</b> 4:5	
75:11 76:11 78:7	<b>2,000</b> 15:15 43:7	<b>38</b> 3:13 38:12	<b>67</b> 4:6	
84:23 88:6,10,18	52:20 54:10 65:9	<b>395</b> 7:16	<b>68</b> 4:7	
89:22 90:3,12,22	<b>2.3</b> 92:1	<b>395.401</b> 8:2		
93:5 99:1 100:2	<b>20</b> 46:20 48:24		7	
100:16,18 103:5	70:14 78:7 89:22	4	7 40:13	
100.10,10 105.5	90:3 103:24	<b>4</b> 8:8 66:6	<b>70</b> 4:8	
York 87:10	<b>2000</b> 1:14	<b>40</b> 3:14 32:23 67:13	71 4:9	
young 47:12 55:17	<b>2008</b> 29:4	104:1	75 4:10	
89:16	<b>2016</b> 29:6	<b>40's</b> 49:4	77 4:11	
youth 52:9 55:7	<b>2017</b> 29:6	<b>401</b> 1:6 6:17 7:1,9	<b>79</b> 4:12	
<b>Juli</b> 52.9 55.7	<b>2018</b> 14:11 33:17	8:14 12:21 13:23		
Ζ	37:9	14:1,7 26:14	8	
zone 32:17 36:23	<b>2019</b> 1:15 9:7,9	31:14 33:6 39:13	<b>8</b> 27:15 75:11 87:22	
37:4 43:2	13:2 17:13 106:5	42:18 44:23 45:20	<b>8:30</b> 80:11,12	
	<b>217-558-8280</b> 2:4	70:8 72:10 84:15	80 4:13	
1	<b>22</b> 3:5	100:9 102:3	<b>82</b> 4:14	
<b>1</b> 8:3 15:7,14 65:14	<b>24</b> 3:6 15:9	<b>404</b> 7:4,9	84 4:15	
<b>1.5</b> 15:14	<b>25</b> 3:7 9:7,8,22 13:2	<b>42</b> 3:15	<b>86</b> 4:16	
<b>1/3</b> 36:23 37:3	17:13 105:7	<b>44</b> 3:16 90:12	88 4:17	
65:15	<b>26</b> 106:5	<b>45</b> 88:10 103:5	<b>89</b> 4:18	
<b>10</b> 85:6 88:18	<b>26th</b> 1:15	<b>46</b> 3:17	9	
103:24	<b>28</b> 3:8	<b>47</b> 3:18	<b>9,000</b> 16:3	
100 5:2	<b>29</b> 3:9	<b>48</b> 3:19 93:5	<b>9:06</b> 105:14	
101 5:3			<b>90</b> 4:19	
<b>102</b> 5:4	3	5	<b>900</b> 14:24	
<b>1021</b> 2:2 10:4	<b>3</b> 8:6 14:11 15:6	<b>5</b> 10:4 71:17 76:11	<b>900</b> 14:24 <b>91</b> 4:20	
<b>104th</b> 29:16	18:19 20:21,23,24	85:6 100:16	<b>91</b> 4.20 <b>94</b> 4:21	
<b>11,500</b> 15:10	27:13,15 63:6	103:24	<b>96</b> 4:22,23	
<b>11:59</b> 9:8	66:1 73:23 101:17	<b>50</b> 3:20 22:13 46:20	<b>90</b> 4:22,23 <b>97</b> 100:22	
<b>12</b> 100:18	<b>30</b> 21:3 27:23 39:16	84:23 88:6 90:22	<b>97</b> 100.22 <b>98</b> 4:24	
<b>13</b> 3:4	46:20 51:24 54:3	<b>52</b> 3:21	70 T.2T	
<b>15</b> 58:19	61:23 64:3 70:5	<b>54</b> 3:22		

