

REPORT OF PROCEEDINGS

Date: February 8, 2024

Case: PUBLIC HEARING - HILLSBORO ENERGY, LLC, DEER RUN MINE PERMIT RENEWALS

No. N/A

Court Reporter: Ann Marie Hollo, CSR, RDR, CRR

Paszkiewicz Court Reporting
Phone: (618) 307-9320 / (855) 595-3577 toll-free
Fax: 618-855-9513

Web Site: www.spreporting.com

Page 1

CITY OF HILLSBORO

STATE OF ILLINOIS

PUBLIC HEARING

HILLSBORO ENERGY, LLC, DEER RUN MINE

PERMIT RENEWALS

FEBRUARY 8, 2024

Ann Marie Hollo, CSR, RDR, CRR

1

3

4

5

CITY OF HILLSBORO

2 STATE OF ILLINOIS

PUBLIC HEARING

HILLSBORO ENERGY, LLC, DEER RUN MINE

PERMIT RENEWALS

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

PUBLIC HEARING REGARDING HILLSBORO ENERGY, LLC, DEER RUN MINE, PERMIT RENEWALS, on FEBRUARY 8, 2024, between the hours of thirty-five minutes after five o'clock in the afternoon and twenty-four minutes after seven o'clock in the afternoon of that day, at the Montgomery County Historic Courthouse, #1 Courthouse Square, Hillsboro, Illinois, before Ann Marie Hollo, CSR, RDR, CRR, in a certain cause pursuant to 62 Ill. Adm. Code 1773.13(c) promulgated under the Surface Coal Mining Land Conservation and Reclamation Act, the Department of Natural Resources, Office of Mines and Minerals, Land Reclamation Division hereby gives notice that a public hearing for submission of comments will be conducted by the Department for the submittal of renewal application for the Deer Run mine permit Nos. 399 and 424, which was submitted by Hillsboro Energy.

	Page 3
1	A P P E A R A N C E S
2	For the Illinois Department of Natural Resources:
3	Mr. Brian Navarrete, Hearing Officer
4	Ms. Amy Wolff Oakes, Legal Counsel
5	ILLINOIS DEPARTMENT OF NATURAL RESOURCES
6	One Natural Resources Way Springfield, Illinois 62702
7	(217) 558-6622 brian.m.navarrete@illinois.gov
8	amy.oakes@illinois.gov
9	Ma Komi Ogihamoro
10	Ms. Kemi Osibamowo Northern District Manager
11	ILLINOIS DEPARTMENT OF NATURAL RESOURCES
12	One Natural Resources Way Springfield, Illinois 62702
13	(217) 785-9037
14	Mr. James Schafer
15	Permit Coordinator ILLINOIS DEPARTMENT OF NATURAL RESOURCES
16	One Natural Resources Way
17	Springfield, Illinois 62702 (217) 785-5191
18	
19	ALSO PRESENT: Mr. Clayton Cross, Hillsboro Energy, LLC
20	
21	The Court Reporter:
22	Ann Marie Hollo, CSR, RDR, CRR
23	Paszkiewicz Litigation Services 26 Ginger Creek Parkway
24	Glen Carbon, Illinois 62034 (618) 307-9320

1 IT IS HEREBY STIPULATED AND AGREED that the 2 public hearing may be taken in shorthand by Ann Marie Hollo, RDR/CRR, a Certified Shorthand 3 4 Reporter, and afterwards transcribed into 5 typewriting. 6 7 (Starting time of the hearing is: 5:35 p.m.) 8 MR. NAVARRETE: All right. Good 9 evening, ladies and gentlemen. My name is Brian 10 Navarrete. I'm an attorney with the Illinois Department of Natural Resources, Office of Legal 11 12 Counsel. I am the appointed hearing officer for 13 this -- for the -- this public hearing administered by the Office of Mines and Minerals, Land 14 15 Reclamation District. 16 The -- it was originally scheduled for January 22, 2024, but was continued to today's 17 18 date because of the unforeseen weather emergency. So, thank you, all, who were able to come today. 19 20 Seated in front of me are Kemi 21 Osibamowo, Jim Schafer, and Amy Oakes from the 22 Illinois Department of Natural Resources Land

Before we start, I'd like to go over

23

24

Reclamation Division.

a few logistics for conducting this public hearing. 1 2 First, for those who wish to provide oral comments, please make sure that your name is on 3 here. So if anybody else -- anybody doesn't have 4 5 their name on here, now would be the time to do it. All right. I think James did a 6 really good job getting the names written down. 7 8 For those that requested a public 9 hearing, Mr. Schraut, it was my understanding that 10 you have -- you do not wish to go -- speak first; is that correct? 11 12 MR. SCHRAUT: No. Somebody else can, 13 I can speak first. or I can. 14 MR. NAVARRETE: Okay. 15 MR. SCHRAUT: I mean, I quess you 16 want me up front? 17 MR. NAVARRETE: In a second, in a 18 second. 19 MR. SCHRAUT: What? 20 MR. NAVARRETE: Not yet, not yet. 21 MS. DECLUE: I like that enthusiasm. 22 MR. NAVARRETE: So based on the 23 number of speakers -- I counted, I think, ten -- we

will have to limit the time at first and make sure

24

1 everybody has a chance to get heard, and then when

2 | we have time left over at the end, and those who

3 | wish to have -- or say more -- have more to say,

4 | will be given an opportunity to speak.

5 And that is until 7:30. That is when

6 | the Department has the space reserved, until

7:30 p.m.

7

15

16

8 Second, the Department has hired a

9 | court reporter to record and transcribe tonight's

10 hearing. So please be sure to speak loudly and

11 | clearly so the court reporter will be able to create

12 | an accurate transcript.

There is a microphone at this podium.

14 | So, please -- if you're able, please come to the

podium and speak into the microphone. It will make

it easier for the court reporter to transcribe your

17 statements.

Third, we'll be requesting an

19 expedited transcript, and we'll upload a copy of the

20 transcript onto the Department's website when that

21 is available.

22 First, we ask that since we do have a

23 | court reporter, that no other recordings be made of

24 | today's proceedings. The transcript will be

1 provided online.

2.

And, last, the restrooms on this floor are located outside this door immediately to your right. So, you know, if you need to use the restroom, please do so.

The Land Reclamation

Division -- "LRD" for short -- is but one of several state and federal administrative agencies responsible for administering and enforcing regulations regarding the coal mining industry in the State of Illinois.

Each has its authorizing statute and set of regulations, and with that, each has its own permitting and enforcement requirements regarding coal mining operations in the state.

LRD's authorizing statute is the Surface Coal Mining Land Conservation Reclamation Act, found in Chapter 225 of the Illinois Compiled Statutes, Act 720. Its promulgated regulations are found in Title 62 of the Illinois Administrative Code, Part 1700 to 1850.

This public hearing is being held pursuant to Sections 1773.13 and 1774.15 of those regulations, and it is in relation to the pending

application to renew Permit Numbers 399 and 424 of the Hillsboro Energy, LLC, Deer Run Mine.

Before we start, Ms. Osibamowo would like to provide a brief statement regarding the permit renewal process. Thank you.

I don't know if this is on.

MS. OSIBAMOWO: Good evening,
everybody. It's good to see everybody here today.

I think we have more of a turnout than we did during
the informal conference, which is always good.

As the hearing officer introduced,

I'm Kemi Osibamowo. I'm the Northern District

Manager. Today, I'll be representing Dan Barkley.

He really, really wanted to be here tonight, but as some of you may know, he is going through some health issues. So he sends his greetings.

I would also like to address the reason why the Department is processing the renewal of Permits 399 and 424 at the same time.

In 2018, LRD instituted an administrative process to synchronize permit renewal dates for coal mine units made up of multiple permits. This procedure was developed to facilitate a comprehensive review of the entire mine unit at

Page 9

1 fixed intervals as opposed to the individual permit

2 areas being reviewed in isolation at varying times.

3 We memorialized this policy in our

4 | Operator Memorandum 2018-1-04, and that was in 2018.

5 And that's why we are processing the renewals of

6 Permit Number 399 and Permit Number 424 at the same

7 time.

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

review process.

Also, as stated by the hearing officer, this public hearing is being held pursuant to Sections 1773.13 and 1774.15 of the regulations. I do have copies here, and we also have them available on the website. For brevity, my statement will generally encompass the application of these regulations to the permit renewals, but please note, there are also other regulations that are

So usually the first step is a renewal application is submitted to LRD, which is us, and reviewed for administrative completeness usually primarily by Jim Schafer.

cross-referenced and applicable as part of the

Here, in this situation, the application was submitted on

June -- sorry -- July 27, 2023. A completeness

1 | review is a moderately detailed review to determine

2 | if sufficient information is provided for the

3 Department to conduct its technical review of the

4 | application for compliance with the regulations I

5 | just mentioned. In this situation, the application

6 for renewal was deemed administratively complete

7 | September 12, 2023.

The next step is that the applicant must file a copy of the renewal application with the county clerk in the county where the mine is located and run a public notice for four consecutive weeks.

In this case, the administratively complete renewal application was filed with the Montgomery County Clerk September 14, 2023.

In addition to being available for public review at the county clerk's office, the permits are also available for review on our website. The news ad was first published by the permittee in the Hillsboro Journal-News, which is a Montgomery County-wide publication, and it started September 18, 2023. It also continued for the next four weeks.

The next step is written comments or objections and or requests for an informal

- 1 | conference may then be submitted to LRD within the
- 2 | 30 days after the last publication notices. In this
- 3 | case, the Department received requests for an
- 4 informal conference from Larry Schraut of Hillsboro,
- 5 | Mary Bates of Litchfield, Karyl Dressen of Coffeen,
- 6 | Eileen Russell of Alton, Joyce Blumenshine of
- 7 | Peoria, and Mary Ellen DeClue of Litchfield.
- Did anybody else request for an
- 9 informal conference that didn't hear their name?
- 10 (No response.)
- MS. OSIBAMOWO: Okay. Thank you for
- 12 that.
- So we did conduct an informal
- 14 | conference regarding the renewal of these permit
- 15 application on Monday, December 4, 2023, at this
- 16 | same courthouse.
- We also received comments from the
- 18 participants listed below, and I have a compilation
- 19 of all the comments we received during the informal
- 20 conference.
- Now, pursuant to Section 1773.14 of
- 22 | the regulations, if the issues in question are not
- 23 resolved by the informal conference, any interested
- 24 person or county board member may request a public

1 hearing within 80 days after the first newspaper

- 2 | notice required by Section 1773.13(a). In this
- 3 | case, Larry Schraut of Hillsboro requested a public
- 4 hearing.
- 5 Did anybody else request a public
- 6 | hearing and didn't hear their name?
- 7 (No response.)
- MS. OSIBAMOWO: Okay. Thank you for
- 9 that.
- Now, written comments and objections
- 11 submitted during the public comment period and at
- 12 | informal conference is -- and public hearing such as
- 13 this are compiled, they're reviewed, and they're
- 14 | considered as part of the permit review process.
- 15 Please note that renewal of the
- 16 permit is subject to standards that are very
- 17 different from those required for new permits or
- 18 | significant revisions to a permit.
- 19 Per Section 1773.19(d) and
- 20 | 1774.15(a), a valid permit shall -- a valid permit
- 21 issued shall carry with it the right of successive
- 22 renewal within the approved boundaries of the
- 23 existing permit and upon expiration of the term of
- 24 | the permit.

Now, Section 1774.15(c)(1)

specifically provides that the Department shall
approve a complete and accurate application for
permit renewal unless it finds in writing that the
terms and conditions of the existing permits are not
being satisfactorily met;

B, the present surface coal mining and reclamation operations are not in compliance with the environmental protection standards of the Act and regulatory program;

C, the requested renewal substantially jeopardizes the operator's continuing ability to comply with the Act and the regulatory program on existing permits areas;

D, the operator has not provided evidence of having liability insurance or self-insurance as required by the regulations in 1800.60;

evidence that any performance bond required to be in effect for the operation will continue in full force and effect for the proposed period of the renewal, as well as any additional bond the Department might require pursuant to the section -- pursuant to the

1 entire regulation;

2.

F, additional revised or updated information required by the Department has not been provided by the applicant.

Now, I just basically read out the regulations in this part. I have copies available if anybody wants that.

So, in short, basically to be approved, an application must meet every one of these requirements. If the applicant -- if the application does, then the Department shall approve the renewal application. If the application fails to meet any one of these criteria, then the Department shall deny approval.

This public hearing provides a venue for persons having interest, which may be adversely affected by the decision on the application, to provide oral or written statements and any other relevant information for us to consider in our review.

So, now, what does all -- this all means basically is all your comments provided through this process will be compiled. They'll be reviewed and considered and addressed in relation to

the standards for permit renewal set by the section. 1 2 So as your representative tonight, it's my job to compile the comments. As I 3 mentioned, I do have the ones from the informal 4 5 conference. Anything you provide today will be added onto this list, but please note that the 6 7 Department's decision on the pending permit renewal 8 application is based on the criteria I just 9 mentioned in our regulation. 10 So, thank you. 11 If you have -- are you ready? Do you 12 have anything? 13 MR. NAVARRETE: Yeah. 14 MS. OSIBAMOWO: Okay. All right. 15 So . . . 16 Thank you, Kemi. MR. NAVARRETE: MS. OSIBAMOWO: 17 Thank you. 18 MR. NAVARRETE: Before we start this public hearing --19 20 MS. DECLUE: Can I ask --21 MS. OSIBAMOWO: Yes. 22 MS. DECLUE: I know this is for 23 renewal of four permits.

MS. OSIBAMOWO: Two permits, yes.

24

MS. DECLUE: Well, also revision one of Permit 39 -- 399, and revision two of Permit 399.

I consider that four permits, but okay.

MS. OSIBAMOWO: Yeah. Technically, ideally, for the case of this public hearing, we're only taking comments regarding the renewal of those two permits.

Now, I guess you're talking about the permitting action related to those two permits.

Those are the only two permits we have.

MS. DECLUE: Okay. I guess my question is: Can -- if there is approval, is it all -- all of them, or could it be just three of them or two of them?

MS. OSIBAMOWO: So we're only dealing with these two permits. Any permitting decision we make would be in regards to just these two permits, nothing else. Just the renewal of these permit applications.

If they have six permitting actions in the works with us, it has nothing to do with what we decide here. Well, I shouldn't say it has nothing to do. It's -- this is -- any decision we make regarding this application is based on the

1 renewal application, if that makes sense. No? 2 Okay. 3 MS. DECLUE: Okay. I guess I was under the impression, like, when -- you know, like, 4 5 revision one of 399 permit, that was up for renewal. Revision two of Permit 399 was up for renewal. 6 7 mean, that was my impression. 8 MS. OSIBAMOWO: The entire permit is 9 up for renewal. 10 MS. DECLUE: Oh, okay, okay. 11 MS. OSIBAMOWO: So each permit 12 carries the five-year term. After that five-year 13 term, it's renewed or not. 14 MS. DECLUE: Okay. 15 MS. OSIBAMOWO: So that's -- that's 16 what that means. 17 MS. DECLUE: All right. Thank you. 18 MS. OSIBAMOWO: Yeah. 19 MR. NAVARRETE: All right. Are there 20 any other questions related to this process before 21 we start? 22 (No response.) 23 MR. NAVARRETE: Okay. At the close

of tonight's hearing, the Department will collect

24

any written comments and statements or other
materials you wish to provide for this
administrative record.

- I'm going to ask that we start with six minutes per person and then see how much time we have left at the end.
- So, Mr. Schraut, if you would like to come up.
 - MS. OAKES: And before we begin, I just would like to -- I'm Amy Oakes, the attorney for IDNR for the record.
 - I just wanted to remind everyone that the key difference between an informal conference where we respond to questions and comments to the best of our ability, that is different than the public hearing, which is the furtherance of that informal conference where any responses to tonight's questions or comments will be within the appendix of permit if it is granted.
- MR. NAVARRETE: Mr. Schraut, start us off.
- MR. SCHRAUT: My name is Larry

 Schraut. I'm a farmer that has been adversely

 affected and will be adversely affected by the

1 longwall mining in the future.

Panels four, five, and six have already affected me, and panel seven, eight, and nine will affect -- will adversely affect me in the future.

None of you sitting here before me know the adverse, emotional effect that it's had on me, watching the sinking of my land and property that includes 12 grain bins, 2 machine sheds, and a garage.

I've spent my entire farming career caring for and improving the land for the next generation.

I think the IDNR land reclamation specialist needs to be more proactive with the landowners affected by this mine.

I'm very disappointed that a land reclamation specialist has not showed up at either one of the informal conferences or this hearing. It's kind of like out there in the field, he never shows up either, and he rubber-stamps every monthly report. It's very disappointing to me.

I know my flat farmland with minimal

- 1 erosion could never be the same because of the 6-,
- 2 | the 7-foot slopes, and the uneven subsidence.
- 3 | Normal farming practices will have to be changed to
- 4 | more time-consuming and costly ways to compensate
- 5 | for the subsided land surface and the drainage
- 6 issues.
- 7 Contractors' cost should not be a
- 8 factor in the best reclamation work, and my goal,
- 9 which is requiring hundreds of hours of my time, is
- 10 to have it reclaimed to the best possible.
- 11 And, like I say, I'm disappointed
- 12 | that a land reclamation specialist doesn't show up
- 13 and spend a little -- and he would get paid for it.
- 14 I'm not getting paid for it.
- MR. NAVARRETE: Thank you,
- 16 Mr. Schraut.
- Would the next person who would like
- 18 to speak step forward? And then please just
- 19 introduce yourself when you get to the podium.
- MS. BLUMENSHINE: My name is Joyce,
- 21 J-O-Y-C-E; Blumenshine, B-L-U-M-E-N-S-H-I-N-E.
- 22 I want to thank the IDNR staff for
- 23 | being here tonight, to the Hillsboro County for the
- 24 use of this courthouse, and particularly thank you

1 to IDNR for your cognizance of the unsafe driving

2 | conditions. I heard from local residents they were

3 | iced-in because they couldn't get up the hilly

4 driveway or that country roads were not treated, and

5 the highways might have been, but thank you for

6 rescheduling this hearing.

These hearings are very important, and I cannot help but reflect on the original heroines and heroes of Illinois, including Jane Johnson, who in the 1960s and 1970s trekked to Springfield and trekked to Washington, D.C., to be sure that our nation and this state were protected with regulations for coal mining. So I honor the legacy of those who have come before us tonight.

I appreciate that our Northern

Regional IDNR Division Director is here and reviewed the rules because that's what I want to speak to tonight.

It's my opinion that these permits should not be renewed, and I ask IDNR not to renew the permits. Clearly, to me, the renewals do not comply with 62 Illinois Administrative Code, Section 1774, letter (c), approval process, starting with number 1 criteria for approval.

I don't see that the terms and conditions of the existing permit are being satisfactorily met because Hillsboro Energy has failed and is failing to succeed to have the surface land areas affected by underground longwall mining activities — and this is in quotes from the regulation — "restored in a timely manner to conditions that are capable of supporting the uses which they were capable of supporting before any mining or to higher or better uses." Closed quote.

While the word "timely" is nothing I could find expressly defined, IDNR has to be aware that the ponded field areas due to longwall subsidence at the Deer Run Mine Permit 399, have remained underwater and incapable of being farmed for over three years.

Additional problems with longwall subsidence: Ponding, the lack of ability of the mine to adequately drain and maintain drainage of the longwall areas will clearly continue through the years -- the five years of these renewals -- because the mine is continually creating more drainage problems as it subsides ground unevenly in the longwall panels.

1

4

5

6

7

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

And these are not just short drops.

2 Some are 6 to 7 feet as local residents have mentioned.

IDNR approved the mine permit to go from upstream -- actually, from the headwater stream down against the drainage. So it's going to constantly not only be having to deal with the fact that the watershed drainage is fighting against the natural drainage, but also that the longwall subsidence is compounding the constant impacts on drainage, and concerns for mixing those soils, and excavating or dredging drainages, soil compaction from machinery, and other ongoing work will be band-aids in an effort to return a very different ground topography and drainage to pre-mining conditions. The mine is failing to restore land in a timely manner and will continue to do so if these permits are approved.

Letter B. The present surface mining and the reclamation, including the effects from the underground mining, are not in compliance, as I see it, with the environmental protection standards of the Act and the regulatory program. It is very difficult to understand how the ongoing ditching of

Bearcat -- all one word, "Bear" with C-A-T -- Creek and the Hillsboro Energy reclamation are in compliance with the regulatory program.

2.

I refer to appendix F -- letter "F" as in Frank -- to revision number 2, Permit 399, that states in quotes: "The Department will review the performance of Hillsboro Energy subsidence control plan in the field concerning prompt and effective mitigation. Quarterly reports detailing the compliance with 62 Illinois Administrative Code 1817.121, as required in the original Permit 399, shall continue for areas approved . . ."

And I hear that's not the specific permit, but clearly -- and this follows. In the original Permit Number 399, I want to ask: What has the IDNR learned from the Hillsboro Energy quarterly reports which were required in the original Permit 399?

I want to ask: What guidance has

IDNR given to Hillsboro Energy to adjust their

mitigation planning based on what is really

happening on the ground and the observed erosion,

ponding of water, and other mine work the mine has

done?

What is IDNR's definition of timely restoration for returning fields to a farmable condition? If the current practices being used by the mine continues for another five years, how many more fields will be left ponded? How much more topsoil will be washed away?

And the question has to be asked:

How is continuing the same practices accomplishing
the necessary reclamation in a timely manner and in
accordance and compliance with the full regulatory
program?

Letter C.

 $\label{eq:And I'm mindful of my time, and I can} % \begin{center} \begin{center} And I'm mindful of my time, and I can stop after this if I need to. \end{center}$

The requested renewal substantially jeopardizes the operator's continuing ability to comply with the Act and the regulatory program on existing permit areas.

And here's my thoughts on that, because I don't see how they can continue in the same manner.

Clearly, costs for reclamation work will continue escalating, and more acres are going to be mined for five years, and more reclamation

1 | will consistently be needed. The concerns about

2 | mine finances clearly -- previous humongous

3 | bankruptcy -- clearly, concern has been mentioned in

4 | the informal conference, lack of bonding for the

5 | shadow areas have been made before.

And at the informal conference, I presented exhibits detailing concerns about the ever-increasing load of heavy metals, toxins to public health and safety and to the environment for ongoing mining in the coal slurry impoundments and concerns that there will not be, you know, an end to those. There will be more coal slurry impoundments.

So Foresight Energy, the parent company for Hillsboro Energy, has had one documented coal slurry impoundment emergency, a slope side just mentioned before just months ago, and residents in the area were so frightened, they left their homes out of a fear of a breach of that impoundment. I don't have any news reports. I've been searching. There's nothing that I can find online. I did a FOIA to the Illinois Emergency Management Agency, which came up blocked at every line.

But, anyway, there's a rumor. I can't say it's true. I haven't been down there.

- 1 But I can say there's a rumor that there was a slope
- 2 | slide at the Sugar Camp Mine recently. That's
- 3 | another Foresight project -- same engineers, same
- 4 | kind of attitudes. And we know, those of us who
- 5 | have been involved in this long enough, that there
- 6 were questions about the quality of the compaction
- 7 | work at the permits under 399 and
- 8 | 3 -- I'm sorry -- 434.
- So I raise these here tonight as my submissions on reasonable issues that why these coal
- 11 | mine permits cannot be approved.
- And if I'm at time, I'll stop and
- 13 | come back with one closing part.
- MR. NAVARRETE: I mean, if it's
- 15 quick, go ahead.
- MS. BLUMENSHINE: Thank you very
- 17 | much, Hearing Officer.
- So in summary, I have given a list of
- 19 reasons of why it's hard to see how this renewal can
- 20 comply, and considerations including what we, as the
- 21 | public, see as repeated violations by this company,
- 22 | in general, referring to Foresight and concerns for
- 23 the Deer Run Mine, and at the very, very least, I
- 24 | want to raise that there are concerns for agency

actions that could be taken according to the
existing regulations, and I have four in closing.

Number one, the agency could require

4 additional bonding. 62 Illinois Administrative

5 | Code, Part 1800, at Section 1800.4 at letter (b) has

that the Department shall determine the amount of

7 bond.

And it goes on with the wording in quotes: "When other relevant conditions change," and then it goes, "According to the requirement of Section 1800.15."

And then Section 1800.15 is adjustment of amount. And at (a) it has -- and in quotes: "The amount of the bond or deposit required and the terms of acceptance of the applicant's bond shall be adjusted by the Department from time to time as the area requiring bond coverage is increased or decreased or where the cost of future reclamation changes."

And I just lift that up as what we clearly see on the ground.

Number two of concerns of what the agency is asked to do if, in the worst case, the permits are renewed, which I really don't think they

1 | should be -- so number two. Require more detailed,

2 | realtime, descriptive, on-the-ground reports from

3 | the mine regarding subsidence impacts and what is

4 | being done via mine reclamation work with photos

5 | that capture the actual on-the-ground conditions.

6 | That doesn't seem too out of line. Because in

7 | Permit 399, the subsidence control mitigation plan

8 | was a map of the modeling on the ponding map where

9 the mine company at that time, which has been many

years ago, thought the ponding would occur. And it

11 | would be good to have more specifics maybe to

12 document all of that and compare it to the original

13 permit approvals.

10

14

15

16

17

18

19

20

21

22

23

24

Number three. Why can't IDNR inspection reports detail also on-the-ground issues, photos, and full observations, time-relevant observations what is happening with the mine to have an ongoing, complete report of the seasonal changes and other effects?

And then, lastly, number four, why can't IDNR provide assistance to property owners in understanding the mine's responsibilities and the property owners' rights? There is, you know, what I would say opportunities for the mine to consult with

```
IDNR. We know those things are as set up -- and it
can happen, of course. The responsiveness to the
public, if they have questions, is something I'm not
conversant with, but have a lot of concerns about
from other third-hand reports.

So thank you, sincerely, for your
time tonight in consideration of these comments, and
I have a written copy.
```

MS. OSIBAMOWO: Thank you very much.

MR. NAVARRETE: Thank you,

Ms. Blumenshine.

Whoever would like to speak next, come to the podium.

MS. DECLUE: This is -- okay. Mary Ellen DeClue from Litchfield, Illinois.

Thank you very much for rescheduling this meeting. You have a challenging task ahead of you, much like other regulatory agencies in the United States that oversee coal mining.

The coal industry has dominated for over two centuries, and residents and coal communities have suffered. There must be improvements in the transition away from coal for communities.

Your decision regarding how renewals are evaluated is critical to the future of Montgomery County. This coal renewal is not justified, given the history of past, irresponsible violations of policy and harm to our communities.

I respectfully request that the permit renewal application by Hillsboro Energy,

LLC -- HEL -- be denied. This action would improve the health, safety, and economic growth of Montgomery County.

The erosion of economic development in our community must be addressed. Foresight Energy, the owner of Deer Run Mine, along with several other mines in Illinois, has not been a responsible overlord in the host communities in Illinois.

Neighbors of Pond Creek Mine in Williamson County were scared for their safety when there was a slope slide of the retention pond at Pond Creek Mine in December of 2023. There was not adequate communication among the mine, IDNR, and vulnerable neighbors.

With an unsuccessful attempt to put out a fire in the Sugar Camp Mine in Franklin County

in September of 2021, 46,000 gallons of toxic foam

were dumped into this Foresight mine known as

"forever chemicals," perfluoro alkyl substances, or

PFAS -- it's P-F-A-S -- ended up contaminating

surrounding farmland and surrounding ground and

surface waters.

A resident activist photographed the foam in a nearby farm field and in a tributary to

Akin Creek and submitted the evidence to the

Illinois EPA and the Chicago Tribune. Both the fire and Foresight's responses had remained secret until the activist documented and reported the incident.

Foresight officials also hired contractors to drill boreholes into the mine without a permit from you guys.

In a press release, Attorney General Raoul stated that Sugar Camp jeopardized public safety and irresponsibly violated state and environmental statutes. He stated that exposure to PFAs can cause long-lasting damage to the environment and poses a serious risk to public health.

Foresight was negligent regarding the miners' safe exit when exiting from the fire and its

indiscriminate dispersion of the PFAs. Foresight received a citation from MSHA, but -- sorry -- from MSHA for risking the safety of the miners and not alerting them of the fire immediately.

2.

The toxic impacts from the PFAs were very apparent, harming farm animals and wildlife in areas surrounding where the PFAs were used. Several farmers living near the mine have lost over a hundred and ten livestock, have new upwelling springs containing the PFAs, tumors on the lips of deers, malformed fish in a nearby pond.

One of the severely affected neighbors, the Dennis Clark family, filed a complaint against Foresight Energy, LLC, and associates, in the Circuit Court. Foresight moved to dismiss the complaint or compel arbitration. The back-and-forth filings between Clark and Foresight ended with Clark being forced into arbitration.

This tragedy is another example of coal privilege and coal's harmful influence on communities.

Foresight Energy has shown by its actions that the primary mode of operation is to maximize profits while risking the safety of its employees, the safety of neighbors, while using the

environment as its waste receptacle. Tragically,

five miners have lost their lives at the Sugar Camp

Mine since 2008.

In addition, Foresight has not carried out the best management operations that are designed in the four Deer Run Mine permits under consideration. There are serious concerns about why the original operation of Deer Run Mine was not designed to address the appropriate safety issues that offset pyritic sulfur's known ability to create spontaneous combustion and hotspots in longwall panels.

Deer Run Mine started longwall production in 2012, develop its first hotspot in 2014, followed by another in 2015, with a mine being sealed in 2016. MSHA, finally in 2019, required Deer Run Mine to develop an alternate method of mining coal. Deer Run Mine was switched from a bleeder system to a U-type ventilation plan, according to Mark Cornell, president of Patton Mining, LLC at the time. I think this was in January -- January of 2020, but I'm not sure of the date.

If revision two of Permit 399 is

1 renewed, more high-hazard impoundments will be

2 | needed to impound the toxic wash-water from the coal

preparation plant that is located very near

3

7

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

4 | Hillsboro Hospital. The threat of failure of the

5 | two high-hazard coal slurry impoundments is a

6 deterrent for community development, especially when

the placement of these impoundments endangers the

8 | lives of residents and a drinking water supply.

The required water monitoring for coal mine permits is not extensive enough to determine the amount of contamination in the surrounding areas. Even with the adequate monitoring, most of the 400 violations of Foresight involves water with many still having a status of not being abated.

Sugar Camp has often been found on EPA's chronic violators' list of the Federal Clean Water Act. As far as air pollution is concerned, there are no coal dust restrictions in Hillsboro. Air pollution is a very real, ongoing health problem for coal communities.

The damage to farmland that was -- that has happened from longwall mining is not in agreement with the outcomes presented in

Permit 399 from subsidence. The flooded fields with drainage obstructions are not -- excuse me -- are not restored if restoration is possible. Some of the fields have not been capable of planting for

2.

over three years.

Contemporaneous reclamation required by SMCRA is not happening at Deer Run Mine.

Reclamation of coal mine sites is an expensive, time-consuming process that coal operators are obligated to complete. However, with a declining coal industry, realizing this actual reclamation is even more at risk. This failure to reclaim mine sites places surrounding communities at risk of landslides, catastrophic flooding events, water pollution, and additional health and safety hazards.

Citizens Against Longwall Mining, or CALM, recently signed a letter in support of a 2024 reclamation policy platform to address modern-era coal mine costs and liability. The policy document is a summation of a broad coalition working together for several years led by the Appalachian Law Center and Appalachian Voices. By adopting improvements to federal laws and regulations, we can help ensure that coal communities like ours will no longer be

1 | left with degraded land and water resources.

Neither coal communities nor taxpayers should be burdened with reclamation costs and cleanup from post-1977 mines that are inactive or closed. Prior to 1977, the Abandoned Mine Lands, or AML, fund is supposed to cover reclamation costs of these mines.

With the declining market for coal, and climate change issues, coal companies can financially or -- I'm sorry -- coal companies are financially compromised. To delay reclamation, coal operators classify the mine as active when the mine is basically abandoned. The term "zombie" describes the status and function of the orphaned mines.

MR. NAVARRETE: Ms. DeClue, you're over time. Are you almost done, or can we come back?

18 MS. DECLUE: Come back.

MR. NAVARRETE: All right. Let's do

20 that.

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

MS. DECLUE: Thank you. You've been

22 | very kind.

MR. NAVARRETE: Would you like to

24 | come on up, ma'am?

1 MS. DRESSEN: My name is Karyl

2 Dressen.

I want to state my opposition to the renewal of Hillsboro Energy's Deer Run Mine, Permits 399 and 424.

I'm a resident of Montgomery County.

I grew up on a farm in the area being longwall

mined, and my family still lives and farms there.

What have I observed since these permits were first approved? There is now a coal processing facility near the adjoining towns of Hillsboro and Schram City. There are two high-hazard coal slurry impoundments containing contaminating waste from washing the coal.

that a failure at the impoundment could inundate part of the town. An entire farming community is gone; land, taken up by the processing facility and slurry impoundments, can no longer produce crops.

More than a dozen homes within the first mine panels have been torn down. Leaning and damaged structures remain at a few sites.

I learned at a hearing for Permit 424

For the past three years, county residents have endured delays and detours on a state

1 | highway, Route 185, due to subsidence damage from

2 | longwall mining. A long section is still reduced to

3 | 20 miles per hour due to severe pavement distress.

I've witnessed the ongoing devastation to my family's farm fields for three

years. Once level farm fields are now subsided 6 to

7 feet above the longwall mine panels.

The room-and-pillar mine passageways do not subside impeding drainage. The natural direction of drainage has also been disrupted due to the direction the panels are being mined and subsided.

Formerly flat fields with good drainage and minimum erosion now have large areas of pooled water. Topsoil is lost from erosion on the slopes caused by the longwall panels and the large ditches dug as part of the mine's attempts at drainage mitigation.

Revision two to Permit 399 added 7,731.8 more acres of shadow area to be damaged by longwall mining subsidence.

Appendix F in this permit revision stated, "Hillsboro Energy must correct material damage resulting from subsidence caused to surface

1 lands, to the extent technologically and

economically feasible, by restoring the land to a

3 | condition capable of maintaining the value and

4 reasonably foreseeable uses which it was capable of

5 | supporting before subsidence."

2.

Level farm ground will never be restored to what it was before being subsided.

Topsoil lost to erosion cannot be restored. Ground flooded for long periods of time will never be as productive.

Appendix F stated, "The Department will review the performance of Hillsboro Energy's subsidence control plan in the field concerning prompt and effective mitigation. The Department will monitor Hillsboro Energy's performance in meeting land mitigation requirements, replacement of protected water supplies, and structure mitigation requirements."

It also required the mine to submit quarterly reports detailing the mitigation accomplished and outline future mitigation planning. There are no details in the mine's quarterly reports under monitoring or mitigation. These sections contain the same cut-and-paste comments in all of

the reports for 2022 and 2023.

2.

inspection reports from IDNR also contained a cut-and-paste lack of detail. Especially as pertaining to the shadow area from January through December of 2023, the report stated the Deer Run Mine conducts subsidence mitigation to correct surface-water drainage over the mined-out panels. The operator is continuing to monitor all longwall panels that have been mined out and is performing longwall subsidence mitigation in an appropriate manner.

How is IDNR monitoring Hillsboro

Energy's prompt and effective mitigation in the

shadow area when there are no details in either

IDNR's or the mine's reports on what actual surface

subsidence is being observed in the mine panels are

actual mitigation to correct surface drainage? What

is the timeline for prompt mitigation since one of

my family's fields will now be left unplanted for

the fourth year?

Deer Run is currently longwall mining on panel 6 with 11 more panels approved by IDNR in revision two in 2021. Renewal of Deer Run's permits

1 | means longwall mining and an additional

2.

7,731.8 acres of shadow area, much more than in their original permit.

Renewal means more homes and farm buildings damaged and farm families displaced, more public roads damaged, impacts to the west edge of Coffeen Lake and streams such as Bearcat Creek, level farm fields permanently altered with large subsided areas of pooled water due to the subsidence, and disruptions of the natural drainage patterns, and added ditching through their fields.

Why is the mining company allowed to damage private and public property, especially a company that has already filed for bankruptcy once since the start of operations here and has a history of violations?

Over 400 violations are listed in the renewal application for the applicant and its owners with the majority being at the Illinois mines.

Coal falls under the umbrella of
Illinois Department of Natural Resources, but clean
air and water and productive farmland are also one
of the state's natural resources. Even the mine
company referred to the valuable farm ground that

1 overlies the shadow area in an application.

In closing, I would like to reference some comments of the late Catherine Edmiston, who grew up in Montgomery County, and fought tirelessly to protect our community from longwall mining. She pointed out that our area was the beginning of the broad, flat, prairie land, the richest ground in the world.

She asked: Do we sacrifice that for future generations for the one-time taking of coal?

Thank you for the opportunity to speak.

MR. NAVARRETE: Thank you,

Ms. Dressen.

15 Please.

MR. SCHROEDER: Yes. My name is
William "Bill" Schroeder. I live in Hillsboro,
18 11 -- 62049.

I'm going to touch on some of the subjects that previously were addressed by
Ms. Blumenshine and Ms. Dressen about the drainage.

Going back to the beginning of the permitting process of 399 when this first came to town, the public hearings that were held, there was

a guarantee by the mine and IDNR that there would be -- that a comprehensive drain plan, somehow or another, would be comprised and adhered to going forward.

2.

This personally -- the beginning was that the drainage plan would be modeled on the first two panels, which, as it turned out, the first two panels, the drainage was from the south to the north.

After that, which they wouldn't -- or complete a plan, which it seemed to be a little odd at the time, because from there forward, the drainage was going to be from the north to the south. So everything that was easily done -- the first two panels -- which the second panel drained into the first panel, so that was no big deal.

From now on, the panels drained to unmined area, and so far it's been required that there would be -- and the farther south this goes, the more complicated it gets.

There was a lot of concern at the beginning of this hearing process back then about ditches that would have to be dug and how much ground that they would take out of place. It was

guaranteed: No, that wasn't going to be a problem.

Well, as it turns out -- you can witness it yourself -- there's been some tremendous ditches, and from my -- from what I've learned or what I know, without any approval from the Corps of Engineers. If I were to go out and dig a ditch like that, the Corps of Engineers would have me in jail the next day. So I don't understand how that works.

But the concerns that big ditches with big, long, black, back slopes would be taking out even more productive farmland has come to pass, and it seems like the only way that it's going to -- the drainage would be completed with -- would be more ditches and more ground taken out of production, including the ground that was already flooded.

The beginning -- the -- excuse me.

As I see it with the ponding, without digging ditches, there would have to be either something installed like pumping stations or lift stations similar to what some of the distant subdivisions have to use for municipal sewer systems.

If this is the case, rather than dig

ditches, if this would be part of the plan, then,

again, it raises the question: Who is going to pay

for them? How will they be maintained? And

the -- and where will they actually go to? I mean,

will they -- will they pump to a bigger ditch, or

how will that work?

Anyway, my concern, again, is that as the farther south you go -- and I am south -- the more complicated the drainage gets, and as of to right now, as near as I can tell, there has never been the promised drainage plan completed or filed in any -- in any portion of the DNR.

So my request is: Up and until there is at least some type of comprehensive drain plan that would detail how this was going to take place, how much ground would be taken out of production, and how it would be influencing the natural flow of water, I would hope that there would be a hold on this permit until that is completed.

I appreciate that, and thank you very much.

MR. NAVARRETE: Thank you.

MS. OPLT: Good evening. My thanks to the IDNR for hosting this public hearing and

allowing the people in this room to voice their truths.

2.

My name is Toni Oplt. I live in

Edwardsville, Illinois. I am a member of the

Illinois Sierra Club; I chair the Metro East Green

Alliance; and I cochair the Illinois chapter's

Conservation Committee. I'm also a commissioner on

the Illinois Nature Preserves Commission. And while

I hold no authority to speak on behalf of these

organizations, save Metro East Green Alliance, I

come here today to speak my own informed truth to

power.

I began in a place many do not wish to go at the threshold of climate change. Climate change is here and threatens global well-being daily, but acknowledging it requires us to say out loud that it is the truth; requires us to act accordingly by reducing human manifested carbon emissions at a global scale in ways not everyone will favor.

One of my proudest moments as an INPC commissioner was being directed to the IDNR's climate action plan, plain to see on your website for everyone. It is -- and I quote -- a roadmap for

1 zero greenhouse gas emissions by 2050. The IDNR

2 climate action plan outlines strategies for reducing

3 emissions from operations, buildings, and

4 transportation, increasing renewable energy

5 | production, and helping Illinois natural resources

6 be more resilient to the impacts of climate change.

So you see, in my mind, that's what we call "walking

the walk."

So I am somewhat confused by the intention you entertain to renew Hillsboro Energy's permits for the next five years, allowing it to continue its extractive, polluting, and community-destroying activities in the face of climate change.

Of course, I could speak to the air pollution the mine forces on the community to suffer through 24/7, the loss of habitat and species to its ongoing extraction, the multiple violations the company has incurred while continuing with seeming impunity for profit, the destruction of family farms and homes caused by the mine's planned collapsed panels, the continually flooded and collapsed public roads that threaten to hinder any emergency vehicles, not to mention seriously impacting the

1 lives of residents.

I could talk about the few number of jobs the mine actually provides in a highly mechanized operation that sends underground workers to their grave years earlier than expected with deadly black lung, or the fact that no one truly profits from the mine's operation but the energy company itself.

But I will rest my truth on climate change, the one undeniable truth from which no one will escape, not even the CEO of Hillsboro Energy.

Of course, we could follow the steps like the IDNR's climate action plan. We could shut down this mine and others like it.

So I come tonight, in truth and good faith, to ask that your office of surface mines and minerals deny the permit to Hillsboro Energy as a positive step toward resiliency in the face of climate change.

Thank you.

MR. NAVARRETE: Thank you.

MR. SCOTT: Do I need to stand at the

podium?

What I -- it's too complex to do in

1 six minutes, really. 2 My name is John Scott. I live in Champaign, Illinois, but I own land in Hillsboro 3 Township, and I appreciate the presenters that came 4 5 before me, especially Joyce Blumenshine's organized and thoughtful presentation, as well as everyone 6 7 else's. And I probably will not be as eloquent, but I did hit the print button on my printer. 9 I know the coal company -- is Jeff here? Is the coal company here tonight? 10 I see Amy, right? 11 12 MS. OAKES: I think you're referring 13 to our prior manager, who Kemi has taken his position. 14 15 MR. SCOTT: Who has? 16 MS. OAKES: Kemi. 17 MR. SCOTT: You work for the coal 18 company? 19 MS. OSIBAMOWO: No. I work for IDNR. 20 So are you referring to Jeff Steiner? 21 MR. SCOTT: No, the coal company 22 lawyer.

present this evening. A representative from the

MS. OAKES: No coal company lawyer is

23

24

- 1 | coal company is here this evening.
- MR. SCOTT: And you're -- what's your
- 3 | representation, and who are you?
- 4 MR. CROSS: I'm a representative of
- 5 the coal company.
- 6 MR. SCOTT: You're a miner or what?
- 7 MR. CROSS: I'm a representative. My
- 8 | name is Clayton Cross.
- 9 MR. SCOTT: You're just here? Yeah.
- 10 Your background on this -- well, I just represent
- 11 myself. I don't represent any companies.
- But, you know, I'm surprised that
- 13 | this proceeding has gone ahead. I guess I'm
- 14 | calling -- I would like to see 399 -- and is it
- 15 | 242 -- not approved.
- The coal company has been trying to
- 17 | prove that they don't have standing in the case for
- 18 a number of years. I don't know that that's true.
- 19 You know, my family has lived in this
- 20 | area for quite a while, and this millstone out in
- 21 the yard here comes from the -- off of some -- off a
- 22 | mill from some land that we own, and we do own land
- 23 in Hillsboro Township.
- I printed this thing off.

I had contacted Amy about finishing the last case, and I haven't received anything from the Honorable Judge Dan Schuering, regarding finishing that case, and it's my understanding that he has to make a judgment -- a final judgment on this case, whether it's just paperwork or whatever, before any cases can proceed, because it seems like these permits are not mutually exclusive, that he has the right to reject the permit based on that judicial review, but we haven't heard a final on that yet.

And let's see if I can find the exact -- here it is on the State of Illinois Bureau of Administrative Hearings, Department of Natural Resources.

John R. Scott, Joyce Blumenshine,

Mary Ellen DeClue, Citizens Against Longwall Mining,
a nonprofit corporation, petitioner; Department of

Natural Resources and Hillsboro Energy. The matter

comes for a decision . . .

And so basically to make it short, he discounts Blumenshine and DeClue, but he says at the end that there's a -- let's see. Scott requests -- one-page letter.

Anyway, he says that my

comments -- he didn't take me off the case and asked me to write another permit -- I mean write another response, and then the coal company is to write a response. So I had two weeks to write a response, and the coal company had four weeks to write a response, which they did, and then we didn't hear a final on that. And I contacted Schuering's office multiple times, and I emailed Amy, and Amy actually sent an email saying that -- requesting a response.

Let's see if there's an updated -- this is from -- if there's an update on this case, I have not received any communication from John Scott. It's still pending with BAH. This is -- thank you, Amy.

And then there's another one. This is on October 25, '23. As bystander to completion, I'm looking for an update to DNR OMN LRDP ER 21001 (phonetic). Please -- thank you, Amy.

And I haven't -- I haven't received anything that I know of either. I haven't received any emails. I haven't received any written notifications. So unless I'm, you know, in the dark, or I don't -- you know, I've missed something

- here, it seems to me like the last judicial review
 has not been completed.
- MS. OAKES: Mr. Scott, you're aware
 that's with the Bureau of Hearings under Judge
 Schuering? So Judge Schuering is the one that needs
 to respond to that, and then DNR is a bystander
 status at that point in this case.
- 8 MR. SCOTT: What's a bystander 9 status?

- MS. OAKES: That means until there's a ruling on standing or until there's a hearing, that although I represent the Department, we are not involved until the permit renewal actually comes into question. We have to pass standing.
- MR. SCOTT: Right. Well, I think the permit renewal was under question -- I mean, that was part of the judicial review since the judge had the authority to dismiss the permit, and so since there hasn't been a judgment on keeping or dismissing that permit, then I don't see how this request for renewal can even proceed.
- MS. OAKES: Okay. And you're aware that that's something you'll need to take up with Judge Schuering on the appeal of that part?

```
MR. SCOTT: You told me that.
 1
 2
                    MS. OAKES: Sure.
                    MR. SCOTT: I don't -- I don't
 3
     understand the logic of that myself, but it doesn't
 4
 5
     seem to make sense.
 6
                    Okay. Now, if we're going to -- with
     this other permit -- can I get a copy of this 424?
 7
 8
                    MS. OSIBAMOWO: The entire permit?
9
                    MR. SCOTT: Yeah.
10
                    MS. OSIBAMOWO: It's available on the
     website.
11
12
                    MR. SCOTT: And this 208.144, can I
13
     get a copy of --
14
                    MS. OSIBAMOWO: The renewal
15
     application, yes, it's on the website.
16
                    MR. SCOTT: The original permit, I
     think there's problems with it that -- you know, I'm
17
18
     sure that the Illinois DNR -- you know, I appreciate
     you as individuals and that you're here, and you
19
20
     care about these things, but I think the Illinois
     DNR has failed in protecting the citizens of
21
22
     Illinois regarding this longwall mining permit.
23
     mean, it's got a myriad of problems. I know you're
```

all going to divorce yourself from the actual

24

problems because you just do the permit.

For example, when the mineral rights were sold back in the late 1800s, early 1900s, my grandfather was present at some of those signings, and he told me that the coal company was selling it as a longwall mining, and that the farmers, if you signed up, would not be affected by it at the surface whatsoever. And if there was an unusual occurrence, it would be a small sinkhole that -- one, maybe two at the most on your property. So these people that sold their mineral rights, they sold them under that basis, not under the basis that their whole farm and their buildings would be in a sinkhole.

So I think the current mining on them is being done under false pretenses, and I know you guys divorce yourself from that reality because you're just doing the permit process.

Also, back -- what was it?

19 -- well, a number of years ago, Peabody Coal
decided they weren't going to do the mining anymore.

So they wanted to get rid of the permits -- or their
leases. And so they didn't want to go through the
process of giving them back to individual

1 | landowners, so they made a deal with the county.

2.

The county would take them and turn them back or do whatever.

The county, instead of turning them back to the landowners so the landowners could make their personal choice on whether they wanted their land destroyed by longwall mining and subsidence, they sold all the permits to -- that I know of, to a coal company out east, and so that's where we're at.

Now, the current coal company is mining under the assumption that they have the right to longwall mine, but nobody that was not the process -- and I think it's created a lot of hard feelings and neighbor against neighbor, and it's not just -- you know, everyone here is responsible for the destruction that's going on to the land here.

You know, we -- it's easier -- easy for someone to say, "Oh, it's the bad coal company or whatever that's causing it," but us allowing it to go on, we're -- we're affecting our neighbors; we're affecting the environment, especially where this coal is going.

I think the coal miners even know that they're destroying people's property. They may

be down there getting a livelihood, but that's what the solution is.

And I'm impressed that I haven't been coughing. I'm trying to get over a respiratory illness. So if I cough, I'm sorry, but I discovered recently that -- well, I've been diagnosed with asthma. I live a mile downstream from -- or downwind from the coal-fired power plant in Champaign, Illinois, that's owned by the University of Illinois.

MR. NAVARRETE: Mr. Scott, sorry to interrupt, but I think your time is up, but I think there will probably be time at the end so you could come back and finish your thoughts, but I just want to make sure everyone has a chance.

MR. SCOTT: Okay. That's good.

Well, I want to make sure because there's a couple of important issues with the permit that weren't taken into consideration by the IDNR that I think really should be taken into consideration instead of ignored as usual.

MR. NAVARRETE: Okay. Thank you.

MR. SCOTT: Thank you.

One other thing I wanted to say. I

appreciate her mentioning my mother Barbara Scott's twin sister, Catherine, and her work in this area

also, because her land that my cousins own now is

4 adjoining our property there.

MS. BURGESS: Good evening. Thank
you for this opportunity. My name is Sally Burgess.
I'm the downstate organizing manager for the
Illinois Chapter of Sierra Club, and I provide staff
support for the chapter's mining issues team.

The mining team has toured the area around Deer Run Mine. We've seen with our own eyes the damage to Larry Schraut's farm and now buildings and the State Highway 185, but also one of the issues that the mining team discusses is the glaring discrepancy between Illinois' goal of being a national leader on climate and energy policy and the fact that we're the fourth largest coal producer in the country.

Many coal-fired power plants in

Illinois have retired or have retirement dates.

Utility companies understand the renewable

technologies, such as wind and solar, are rapidly

growing in popularity and are economical and are

therefore the path for the future. Utilities also

know that coal is highly toxic, and because of that, requires expensive technologies to mitigate damage to air and water.

2.

Of course, there's always been a tension between the role coal has played in advancing humanity and its dangers to humans in the environment. As early as the 1300s, according to the EPA website, the burning of coal was associated with air that was dangerous to breathe.

Quote: "At the turn of the century, cries to reduce the smoke faced a tough opponent.

Coal was fueling the Industrial Revolution. To be against coal burning was to be against progress, but progress won out."

But at what cost?

NASA has a graphic on its website, which illustrates the relentless rise of CO2 since about 1950. Scientists warned back in the 1980s that we must not exceed the 350 parts per million CO2. Otherwise life-threatening climate events would occur more often and be more expensive. We now find ourselves hitting historical records of CO2 ppm on an annual basis, and all of the consequences we've been warned about for decades have come to

1 pass.

2.

According to the National Oceanic and Atmospheric Administration's global monitoring website, yesterday's level of CO2 was nearly 426 parts per million. One year ago, it was 420. Ten years ago, it was 398. That is the relentless rise of CO2. As carbon dioxide increases, so does the global temperature. They go together like hand in glove.

2023 was the hottest year on record, and according to NOAA, almost the expensive when you take into account billion-dollar, climate-related events. And let us not forgot last spring's drought-related dust storm here in the downstate on I-55 that involved 72 vehicles, injured over 30 people, and killed 8.

So let's take a look at the contribution coal makes. The Energy Information Administration reports that combustion of one short ton of coal will result in nearly three short tons of CO2 in the environment. Deer Run extracted 4,469,223 short tons of coal in 2022 according to the IEA's coal data browser and the Illinois Coal Annual Statistical Report for 2022. Coal extracted

results in coal combusted and exacerbates the relentless rise of CO2.

Yes, coal has made a significant contribution to the advancement of humanity, but for too long it has been considered necessary.

And passing the Future Energy Jobs

Act in 2016 and the Climate and Equitable Jobs Act

in 2021, Illinois made a clear commitment to

advancing beyond dirty coal to the cleaner and safer

alternatives of solar and wind. The State of

Illinois cannot boast of leading the way on climate

and energy policy while at the same time allowing

Deer Run to extract millions of tons of coal.

I urge IDNR to deny the permit renewal application by Hillsboro Energy, LLC. Thank you for your time.

MR. NAVARRETE: Thank you,

18 Ms. Burgess.

Is there anyone else who hasn't had a chance to speak yet for a first time who would like to come up?

MR. KASTEN: Hello. My name is Allen

23 Kasten.

And me and Larry are probably the

1 most affected by this mine. Do not issue them a 2 permit.

I have dealt with him, and they are crooked. They have done stuff to us that's terrible. Our land has been destroyed. It's a mess.

And, second of all, they still have not paid us for crop damages from last year. It's ridiculous. These people are a disgrace, complete disgrace. Somebody needs to help us.

And I don't know why you would ever issue them a permit when you look at all the soil erosion that they have caused. Look at it. It's everywhere. If I'd done something like that, I -- soil and water, you know, I'd lose all my government payments, everything. It's not right what they've done. It's illegal.

And I will be issuing -- or, well, filing a lawsuit, and I -- if something don't get done, IDNR is going to be on that lawsuit also because you guys have not followed the proper procedures with things, and I have legal proof of it.

Thank you.

MR. NAVARRETE: Thank you,

Mr. Kasten.

Is there anyone else who would like to speak for the first time who has not had a chance yet?

Ms. DeClue, would you like to come back up?

MS. DECLUE: You know it.

Thank you for your patience.

I think I left off about the zombie mines, that basically that's mines that have been established since 1977 that are inactive. They're not productive. They're sitting there and should be reclaimed. Okay. Here we go from that.

Who will pay the reclamation and cleanup liabilities of these failed companies where bonding is insufficient and coal operators are bankrupt? We see that coal mine bankruptcies have resulted in forgiveness of environmental liabilities, health obligations, and pensions, which is contrary to federal law. Between 2012 and 2017, four of the largest coal companies in the U.S. were able to shed almost 5.2 billion of environmental and retiree liabilities.

In 2016, Peabody Coal declared

bankruptcy in the State of Illinois for 17 cents on
the liability dollar. This resulted in Illinois
accepting 16.1 million for a debt of 92.2 million.

Peabody is still mining and producing more environmental damage. So not only are coal operators clued in to how to rid themselves of financial obligations, but the original debt against

them is not adequate or secure.

Foresight and its subsidiaries filed for Chapter 11 bankruptcy on March 10, 2020, after entering a restructuring agreement. The Foresight Energy longwall mines continue operations in Illinois without adequate bonding and reclamation security.

The first problem listed in the 2024 reclamation policy platform was the insufficiency of existing coal bonding systems that guarantee reclamation. The bonding required in HEL's permits are not sufficient to appropriately reclaim the permit and the shadow area. I'm astounded that the bonding required for a longwall mine is equal to the bonding for room and pillar with the same permit area size.

Longwall mining causes extensive subsidence damage in the shadow area, but not the permit area. Revision two of Permit 399 must not be renewed. The 7,731.8-acre addition is not bonded.

The environmental damage from
longwall mining is much too destructive. The system
is so off-scale with IDNR giving HEL control over
farmers' livelihoods. With ever-diminishing coal
needs, we must not continue to sacrifice
agricultural, but, rather, we must conserve farmland
and water resources.

As the system works now, farmers must be -- must be compensated for loss of crops during the times of inability to plant, but not unfortunately permanent damage to the land itself, which is terrible.

Financial compensation to the farmer for damage or contamination is an unequal struggle between the powerful coal operator and the individual landowner. HEL is not required to cover material damage to land and water. This is apparent in the lack of bonding required. It does allow HEL to longwall mine with extensive destruction with no time frame for reclamation or compensation. This

1 | environmental injustice is not acceptable.

As of 2023, there are 32,500 acres -- I'll repeat that. As of 2023, there are 32,500 acres in Illinois of modern mines needing cleanup with only 6,600 acres partially reclaimed.

Of the 400 -- 419 million coal company bonds in Illinois, 68 percent of these bonds are held by one company. IDNR must not renew Permit 399, revision one and two of Permit 399, and Permit 424. Instead, start the transition to closure. Excuse me.

Another concern in the 2024 policy platform is the failure of companies and regulators to plan for mine closures. There needs to be more stringent requirements for permit renewals so that regulators can better evaluate the coal company's reclamation ability. IDNR must reevaluate the negative outcomes of longwall mining on coal communities.

Why is the state supporting

destructive coal mining since it is not a viable

long-term investment for the community or the state?

By denying the renewal of the four

permits, the health, safety, and economic growth of

1 Montgomery County will improve. Do not approve the 2 renewal of the Deer Run Mine mine permits.

Thanks so much.

MR. NAVARRETE: Thank you.

MS. DECLUE: I will submit the text, but I also wanted to add all the -- all the discussion -- excuse me -- all the discussion about the drainage.

At one time -- March 24,

2008 -- the Montgomery County Soil and Water

Conservation District submitted a letter to IDNR to

Scott Fowler, the supervisor, and basically in there

described that the way that the 399 -- the operation

of it, that there would be major drainage problems.

It was pointed out there.

Unfortunately, this letter was not discovered until a couple of years later. It was not in the findings that IDNR likes -- you know, the comments of the various departments like Department of Agricultural. Normally they have the letters of communication. This was not included, and this was accidentally found a couple of years later.

Yeah, I know, Amy. It surprised me, too.

I'll submit this because I think it kind of says from the beginning, there was some major mistakes in the design of Deer Run Mine.

MR. NAVARRETE: Mr. Scott, did you want to come back up?

MR. SCOTT: Well, the original permit, there was a water section that Illinois DNR exempted the coal company from doing any water testing because they found, like, three wells, I think? I think just about everybody in this area has water wells.

So I think that -- I don't understand how the coal company could be exempted from water testing when the state requires it, unless they have an exemption, and that's on Permit 399. I think just everybody out there has got a water well.

And they look on the state's map for water wells, and on my land it shows a water well, and there's no water well there. There's other water wells that it doesn't show. I don't know if they're looking at a water well on the neighbor's land, or they just put one in there because they thought there ought to be one there. I don't know what the thing is.

But then on these -- oh, shows how you can fix up problems when you -- that you're responsible -- the mining company, that when you make a mistake, or you create a -- something that the federal mining agency thinks is a -- shouldn't be doing, they shut you down, and you have to show that you -- you've, what, made restitution or you fixed that problem?

And all of those are -- as I recall, are from other states. They're from Kentucky, West Virginia, which in the State of Illinois, it seems like -- and we know that they have plenty of -- tons they've been cited in Illinois, but that hasn't been used in the permits whatsoever that I'm aware of.

And it seems interesting to me that most people, when they have a job, the more infractions they have -- even though if they show an excuse or they show they've rectified the infraction, they usually don't keep their job.

I mean, I work two full-time jobs, seven days a week for over 30 years by working long hours on weekends and during the week, and it was always my feeling that I had to do my job perfectly or pretty close to perfectly -- you know, show up on

1 | time -- and on my evaluations not have anything

2 | negative, only positives. But it seems like in the

3 Illinois DNR permitting process, the more negatives

4 | the coal company has, the better on getting -- as

5 long as they show how somehow they've rectified it.

And they -- IDNR seems to think that

7 | that's okay, which seems, to me, the opposite of

8 | reality. And I think most people out here who work

9 or have a business find the same thing. If you're a

farmer, and you -- and your equipment is broken down

11 all the time, if you say you've got it fixed up,

12 | that's not going to fix your problem. You know, you

13 have to be able to do the work and do it right.

And, also, in the State of Illinois,

15 as it -- from other states, like, for example, other

16 | state licenses aren't that way. Like my Utah

17 | out-of-state concealed carry license is not valid in

18 | the State of Illinois. I've got to go through a

19 two-day additional class to prove my competency,

even though -- it's a moot point in Utah because they

21 have constitutional carry now.

10

20

22

In addition, I think there's -- I'd

23 | like to read something from the -- let's

24 see -- conservation status of freshwater clams and

1 | mussels. I think the current permit was designed so

2 | long ago that it doesn't apply today. So the format

3 | is wrong, and that's part of the problem. I think

4 | the permit needs to be redesigned for today's

5 | ecological standards and environmental standards

6 instead of the ones from -- I don't know when. It

was before 2015 this permit came around. Maybe it

was a hundred years ago. I don't know.

Let's see if I can find this thing on the -- anyway, when I was a child, we used to go down to Shoal Creek, and we pulled mussels out of the -- besides fishing on Shoal Creek, we could reach down in the mud and pull mussels out, and we'd even find some that would have pearls in them sometimes.

But recently, the -- all of the freshwater mussels in the United States are endangered, and according to the current research in part from -- there's a section here that tells how the U.S. mussel population is the most diverse animal group in the world. There used to be so many in the rivers and streams of the United States, but basically they are not there anymore, and this is the same Shoal Creek that the coal company dumped a

slurry of coal down from -- you know, it went through Hillsboro here and went down Shoal Creek adjoining our land where these mussels are.

2.

And I think it's federal law that these kinds of things need to be followed. I don't think there's just one section of Shoal Creek. It's the only place in the entire United States where these mussels are not endangered, and they are everyplace else. And has that been taken into consideration?

I think there's new evidence of negative health effects of coal pollution. There's an article that came out last week that -- in fact, the EPA just this last week lowered the threshold for PM 2.5 down to 9. It was up to 35 if you -- years ago, but that's the small pieces of coal particles that get in our lungs and go into our bloodstream and kill us basically.

And I was unaware of that when I was younger because getting up for work in the morning, people would tell me the dust in the car was related to farm dust because it was in the farm or whatever. I didn't think it was the coal-fired power plant a mile down the street, but I realized recently that I

get up in the morning, and I'm going off to work in the -- when the sun is rising, and all those pieces of dust are sparkling like glass, and I'm, like, you know, those are coming from coal dust off of the -- and we've been -- I've been breathing that in the last 60 years in my lungs and in my bloodstream.

2.

And recent research shows that anyone, whether it's a plant that has scrubbers on it or not, is at -- doesn't live as long, is at higher risk for cardiovascular disease and lung disease.

So it's not just, you know, the bad coal company dropping, you know, Montgomery County into a sinkhole. It's affecting the whole world.

And where does the coal go? I mean, besides the trucks that are carrying it up to the coal plant at the University of Illinois. Most of the stuff is going to the East Coast and being shipped off to -- I'm guessing -- I don't know where it's going. The coal company claims it's not to China when they were asked, but they are shipping it out somewhere. And my guess is they couldn't be shipping it out anyplace that has better standards for burning coal than we do here in the United

States. They're shipping it someplace where that pollution is going to go into the air, and it's going to come right back to us.

Even here in the United States, we're finding that people's lives are affected even with our high standards. So not just here, but -- and this is high sulfur coal. It's not anthrax -- anthracite. It's . . .

I think that's -- I don't know. I'm tired of talking, and I think that's some of the things I wanted to discuss, but I plan to submit an additional and organized written comment during the comment time.

MR. NAVARRETE: Thank you.

Is there any -- yes, ma'am.

MS. DRESSEN: One thing. Could I ask a question on something just to get clarified?

Okay. So the renewals of the

Permits 399 and 424, so is the permit renewal for

399 not including the revisions that have been done
to it or some of the boundary revision? I thought
everything was included in this.

MR. SCHAFER: Let me see if I can explain it.

So you have the permit on the 399, and you have the Permit 424.

424 when it comes up for renewal.

MS. DRESSEN: Yes.

said at the beginning of the hearing, we decided to combine so we can look comprehensively at the entire mine operations during the renewal process. So we combined all of the mine permits into one renewal process. So we're not just looking at the 399 when it comes up for renewal. We're not looking at just

MR. SCHAFER: We combined it -- Kemi

When you have a revision application, that revision is a change in operations in some manner. That really doesn't affect the renewal, because once we issue the permit, 399 or 424, they both have the opportunity for renewal for another term. So this is what we're discussing: The renewal of the terms for those two permits.

The 399 revision, one and two, is a revision to the operations in some form. That doesn't affect the term of the permit that was issued for 399.

This is an example. I don't know the dates. We issue a permit in 2013. They ask for a

revision of some sort in 2015. That permit that was 1 2. issued in 2013 is up for renewal five years later. Help me. 2018. Thank you. 3 The 2015 revision is not going to 4 5 have its own renewal because that revision is part of that 399 permit, okay? So when we talk about 6 revision applications and renewal applications, 7 there are applications to either change something in 9 the operations plan or to renew the permit that they already have issued. 10 MS. DRESSEN: So if revision two is 11 12 approved in 2021, then is it coming up --13 MR. SCHAFER: There is no renewal for a revision. 14 15 MS. DRESSEN: It's included -- it is 16 grandfathered in with the big permit, correct? 17 MR. SCHAFER: It's a revision to the 18 application. 19 MS. DRESSEN: Okay. 20 MR. SCHAFER: It's not a new permit. 21 It's a revision to the operations of the permit. 22 We don't start over and say, "Okay. 23 You made a revision in 2015; therefore, now your

renewal date is 2020."

24

What we're saying is that there's a revision in operations.

MS. OAKES: So revision becomes part of the permit, and then the permit renewal is every five years where we did the synchronization. So it didn't come every five years because it became the shorter amount of time, and then they're reviewed together. So it's changes within the permit, and the permit length is what's up for renewal.

MS. DRESSEN: Okay. I have just one more question.

I think you'd mentioned that, like, whenever they were talking about Permit 424, it was on the IDNR website. I'm not finding some of these permits on the website.

In fact, like, when this came up for some different things, the only way we've seen it on the website is -- and I appreciate it. I've asked Mr. Schafer, because sometimes it will say do you want to see this? It's in the office at Springfield at IDNR, which is quite a distance, as you know, to go to look at it.

When I've mentioned that and asked,
Mr. Schafer has put some of them online, but I'm not

seeing the older permits on the website. It's only the ones that are pending.

MS. OAKES: The renewal is what's pending, because these permits have a tendency to go back so far. So once the original 399 is granted, that's what -- if we have the capability, then it would have been on the website.

Then when the renewal comes along, it's the renewal application that goes on the website. The other one has already been granted and passed that time. So the renewal part of the application, we don't go back to the original application to look at the renewal.

MS. DRESSEN: Okay. If anyone would want to view those original ones, then the only place that it's going to be available is to come -- is there a physical copy that you can look at, at --

 $$\operatorname{MR.}$ SCHAFER: We have electronic copies of our applications.

MS. DRESSEN: Okay.

MR. SCHAFER: Normally we ask citizens or anyone to ask for a FOIA or through a FOIA for that particular application, and we can

1 provide it for you that way.

Applications are usually put on our Web page when they're in the process of being reviewed so everybody has access to it. We hold on to them for 30, 40 days afterwards on our Web page.

Once the informal -- I'm

sorry -- the administrative review period is past, we usually take those down off our Web page because of storage availability. We do have electronic copies of them, and we can get copies to you for that. We just ask that you go through a FOIA, and you ask for that so we have records of everything.

MS. OAKES: They've been filed with the county for every renewal process, so they are still available through the county.

MS. DRESSEN: Okay.

MS. OAKES: Again, that's geographically more appropriate because they are huge files, and sending them electronically sometimes is an issue. But they are always -- that's why we denote in the beginning that they are filed with the county.

MS. DRESSEN: Okay. I want to submit my comments tonight, but I also want to submit

photos again. We've talked about documentation of what's going on in the shadow area.

2.

You can certainly ask my brother what's going on. The Kasten family can tell you what's going on with these farms.

So I mentioned about there seems to be a lack of detail in the reports that I've FOIA'd both from IDNR and from the mine, but, obviously, I've been documenting some of what this land looks like after being subsided. So I want to submit that then with my comments.

I have photos of a field of my brother's that was subsided with panel five, photos from back in -- starting in March of '23. I have photos and drone photos of the same field. That field is still not draining. The way they drain it is they have pumps out there that are pumping the water out. So that's been almost a year now on it, and I want to submit the photos from it.

Panel six is the panel that they are currently longwall mining. That's the one that my brother referred to with the buildings that have been subsided. I have a photo of some of the surface cracks from that subsidence, a photo of what

his field there looked like before and after subsidence. So I want to submit those also to let you know -- and the photos don't really do it justice either with what these fields look like.

I also have a photo showing you some of the ditching that is done to try to correct some of this, these huge ditches that are dug because the drainage isn't going in the natural pattern. So I'd like to submit those then, too, with my comments.

Thank you.

MR. SCOTT: I thought of something else I didn't mention.

Do any of you know if -- I mean our governor is an environmentally conscious guy. You know, he went to -- I think, in Europe, he went to an environmental conference when the president and other dignitaries were there. Is he aware that he's on the first line at the top of these permits as approving these permits? I can't believe that he is. Do you know if he's aware of that?

MS. OAKES: Mr. Scott, any -- any comments and questions that are going to be responded to were responded to within the informal conference or the public hearing. As I stated

earlier, we will respond to those within the confines of the appendix if the permit renewal is granted.

MR. SCOTT: Okay.

And another thing I was curious about, is there anybody in the audience here that's opposed to this being recorded? So it's just the DNR that's opposed to it being recorded? As a public meeting with the citizens, there are no citizens here that would be opposed to it.

MS. OAKES: Mr. Scott, we provided for this public hearing a court reporter to take down the comments and responses.

MR. SCOTT: Yeah, you mentioned that before. I was just curious about why there wasn't -- I mean, in this -- today, everything is on Facebook, Instagram, whatever. I was just kind of surprised that the news media wasn't here to record this. That's all. But I guess you guys don't allow it? I'm not sure what you're afraid of, but . . .

MS. OAKES: Sharks. Just in case you are concerned, I am very afraid of sharks. I know that's not appropriate for tonight, but if you're asking, that's one of them.

1 MR. SCOTT: You mean like sharks in 2. the ocean? 3 MS. OAKES: In the ocean. 4 MS. DECLUE: Me, too. 5 MR. NAVARRETE: Any other? Yes, ma'am. 6 7 MS. OPLT: A woman who came to your 8 informal hearing was planning to come back and give 9 an informal statement. It's very brief, and she can't come tonight. Would you mind if I read it? 10 MR. NAVARRETE: 11 No. 12 MS. OPLT: Thank you. 13 Her name is Sandy Crawford, and she 14 lives in Godfrey. 15 "I would like to submit a comment 16 regarding the permit renewal request for Deer Run Mine. I live in Godfrey and own farmland in 17 18 Montgomery County near Waggoner. I have several concerns about this permit request. 19 20 I attended an informal conference for 21 submissions of comments in Hillsboro on December 4, 22 2023, and heard statements from local farmers who 23 have experienced subsidence due to longwall mining.

This subsidence and resulting

24

drainage and erosion problems have devastating consequences for plantings, crops, structures, and roads. Montgomery County has prime farmland, and the impact on productivity of this land due to subsidence, erosion, and pooling of water compounds the economic challenges farmers already face. This subsidence damages the farmland, permanently diminishing crop production.

Deer Run and its parent company have a history of permit violations, and given the negative environmental and agricultural impacts of longwall mining, it does not seem to make sense to continue to extract coal at this cost during a time when we should be transitioning from coal to renewable energy.

I do not think that we should jeopardize the livelihood of farmers and risk damage to valuable farmland productivity, the resulting food supply, and natural resources. I would ask that your office take all of these concerns into consideration and deny the Deer Run permit renewals.

Thank you for your consideration of my comments."

And it's Sandy Crawford. And I can submit

1 | both these comments, mine and hers.

2.

Thank you very much.

MR. NAVARRETE: Any other comments?

(No response.)

MR. NAVARRETE: All right. Seeing there's no other comments, I am going to start closing this hearing.

Please drop off any written comments or statements that you haven't already -- any other documentation, which will be a part of the record.

Pursuant to 62 Illinois Admin. Code 1773.14(d)(5), the record shall remain open for additional written statements responsive to the statements or other documents within ten days following the close of today's hearing.

All comments made and collected at tonight's hearing, along with any additional comments received in the next ten days by the Department, shall be considered, along with its own review of the application in making the final decision, issued or denied, of the company's renewal application.

Anyone attending the public hearing, who has provided written comments to the Department

```
Page 87
     during the comment period and has provided us with
 1
     your contact information, will receive a copy of the
 2
     Department's decision regarding this application.
 3
                    I'd like to thank all of you for your
 4
 5
     participation. This public hearing is adjourned.
 6
 7
                    (Hearing ended 7:24 p.m.)
 8
 9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
```

CERTIFICATE OF REPORTER

I, Ann Marie Hollo, Certified

Shorthand Reporter, Registered Diplomatic Reporter,
and a Certified Realtime Reporter within and for the

State of Illinois, do hereby certify that the

foregoing informal conference was taken by me to the

best of my ability and thereafter reduced to

typewriting under my direction; that I am neither

counsel for, related to, nor employed by any of the

parties to the action in which this informal

conference was taken, and further that I am not a

relative or employee of any attorney or counsel

employed by the parties thereto, nor financially or

otherwise interested in the outcome of the action.

Dated this 12th day of January, 2024.

ann marie Hollo

Certified Shorthand Reporter State of Illinois

A	addition 10:15	affect 19:4,4	animal 72:21	50:4 55:18
	34:4 66:4	76:14,21	animal 72.21	59:1 78:18
abandoned 37:5	71:22	afraid 83:20,22	Ann 1:24 2:13	appropriate
37:13	additional 13:23	afternoon 2:10	3:22 4:2 88:3	34:9 41:11
abated 35:15	14:2 22:17	2:11	annual 60:23	80:18 83:23
ability 13:13	28:4 36:15	agencies 7:8	61:24	
18:15 22:18	42:1 71:19	30:18	anthracite 75:8	appropriately 65:20
25:16 34:10	75:12 86:13,17		anthrax 75:8	
67:17 88:8	· · · · · · · · · · · · · · · · · · ·	agency 26:21		approval 14:14
able 4:19 6:11	address 8:17	27:24 28:3,23	anybody 5:4,4	16:12 21:23,24
6:14 64:23	34:9 36:18	70:5	11:8 12:5 14:7	45:5
71:13	addressed 14:24	ago 26:16 29:10	83:6	approvals 29:13
acceptable 67:1	31:12 43:20	56:20 61:5,6	anymore 56:21	approve 13:3
acceptance	adequate 31:21	72:2,8 73:16	72:23	14:11 68:1
28:15	35:12 65:9,14	AGREED 4:1	anyplace 74:23	approved 12:22
accepting 65:4	adequately	agreement	anyway 26:23	14:9 23:4,18
access 80:4	22:19	35:24 65:12	46:7 53:1	24:12 27:11
accidentally	adhered 44:3	agricultural	72:10	38:10 41:23
68:22	adjoining 38:11	66:10 68:20	Appalachian	51:15 77:12
accomplished	59:4 73:3	85:11	36:21,22	approving 82:19
40:21	adjourned 87:5	ahead 27:15	apparent 33:6	arbitration
accomplishing	adjust 24:20	30:17 51:13	66:21	33:16,18
25:8	adjusted 28:16	air 35:18,20	appeal 54:24	area 26:17 28:17
account 61:12	adjustment	42:22 48:15	appendix 18:18	38:7 39:20
accurate 6:12	28:13	60:3,9 75:2	24:4 39:22	41:5,15 42:2
13:3	Adm 2:15	Akin 32:9	40:11 83:2	43:1,6 44:18
	Admin 86:11	alerting 33:4	applicable 9:16	51:20 59:2,10
acknowledging 47:16	administered	alkyl 32:3	applicant 10:8	65:21,24 66:2
acres 25:23	4:13	Allen 62:22	14:4,10 42:18	66:3 69:10
	administering	Alliance 47:6,10	applicant's	81:2
39:20 42:2	7:9	allow 66:22	28:15	areas 9:2 13:14
67:3,4,5	Administration	83:19	application 2:22	22:5,13,20
act 2:17 7:18,19	61:19	allowed 42:12	8:1 9:13,19,23	24:12 25:18
13:10,13 23:23	Administratio	allowing 47:1	10:4,5,9,13	26:5 33:7
25:17 35:18	61:3	48:11 57:19	11:15 13:3	35:12 39:14
47:17 62:7,7	administrative	62:12	14:9,11,12,12	42:9
action 16:9 31:8	7:8,20 8:21	altered 42:8	14:17 15:8	article 73:13
47:23 48:2	9:20 18:3	alternate 34:17	16:24 17:1	asked 25:7 28:23
49:13 88:11,15	21:22 24:10	alternatives	31:7 42:18	43:9 53:2
actions 16:20				
28:1 33:22	28:4 52:14 80:7	62:10	43:1 55:15	74:21 78:18,23
active 37:12		Alton 11:6	62:15 76:12	asking 83:24
activist 32:7,12	administrativ	AML 37:6	77:18 79:9,12	assistance 29:21
activities 22:6	10:6,12	amount 28:6,13	79:13,24 86:20	associated 60:8
48:13	adopting 36:22	28:14 35:11	86:22 87:3	associates 33:15
actual 29:5	advancement	78:7	applications	assumption
36:11 41:16,18	62:4	Amy 3:4 4:21	16:19 77:7,7,8	57:11
55.04		40 40 -0 -1		
55:24	advancing 60:6	18:10 50:11	79:20 80:2	asthma 58:7
35:24 ad 10:18	advancing 60:6 62:9	52:1 53:9,9,15	apply 72:2	astounded 65:21
	advancing 60:6 62:9 adverse 19:7	52:1 53:9,9,15 53:19 68:23	apply 72:2 appointed 4:12	astounded 65:21 Atmospheric
ad 10:18	advancing 60:6 62:9 adverse 19:7 adversely 14:16	52:1 53:9,9,15	apply 72:2 appointed 4:12 appreciate	astounded 65:21 Atmospheric 61:3
ad 10:18 add 68:6	advancing 60:6 62:9 adverse 19:7	52:1 53:9,9,15 53:19 68:23	apply 72:2 appointed 4:12	astounded 65:21 Atmospheric

attempts 39:17	based 5:22 15:8	28:7,14,15,17	capability 79:6	50:3 58:9
attended 84:20	16:24 24:21	bonded 66:4	capable 22:8,9	chance 6:1 58:15
attending 86:23	52:9	bonding 26:4	36:4 40:3,4	62:20 64:4
attitudes 27:4	basically 14:5,8	28:4 64:17	capture 29:5	change 28:9
attorney 4:10	14:22 37:13	65:14,18,19,22	car 73:21	37:9 47:14,15
18:10 32:16	52:21 64:11	65:23 66:22	carbon 3:23	48:6,14 49:10
88:13	68:12 72:23	bonds 67:7,7	47:18 61:7	49:19 76:13
audience 83:6	73:18	boreholes 32:14	cardiovascular	77:8
authority 47:9	basis 56:12,12	boundaries	74:10	changed 20:3
54:18	60:23	12:22	care 55:20	changes 28:19
authorizing 7:12	Bates 11:5	boundary 75:21	career 19:11	29:18 78:8
7:16	Bear 24:1	breach 26:18	caring 19:12	Chapter 7:18
availability 80:9	Bearcat 24:1	breathe 60:9	carried 34:5	59:8 65:11
available 6:21	42:7	breathing 74:5	carries 17:12	chapter's 47:6
9:12 10:15,17	began 47:13	brevity 9:12	carry 12:21	59:9
14:6 55:10	beginning 43:6	Brian 3:3 4:9	71:17,21	chemicals 32:3
79:16 80:15	43:22 44:5,22	brian.m.navar	carrying 74:16	Chicago 32:10
aware 22:12	45:17 69:2	3:7	case 10:12 11:3	child 72:10
54:3,22 70:14	76:5 80:21	brief 8:4 84:9	12:3 16:5	China 74:21
82:17,20	behalf 47:9	broad 36:20	28:23 45:24	choice 57:6
	believe 82:19	43:7	51:17 52:2,4,6	chronic 35:17
B	best 18:15 20:8	broken 71:10	53:2,13 54:7	Circuit 33:15
b 13:7 23:19	20:10 34:5	brother 81:3,22	83:21	citation 33:2
28:5	88:8	brother's 81:13	cases 52:7	cited 70:13
B-L-U-M-E-N	better 22:10	browser 61:23	catastrophic	citizens 36:16
20:21	67:16 71:4	buildings 42:5	36:14	52:17 55:21
back 27:13	74:23	48:3 56:13	Catherine 43:3	79:23 83:9,10
37:17,18 43:22	beyond 62:9	59:12 81:22	59:2	City 1:1 2:1
44:22 45:10	big 44:16 45:9	burdened 37:3	cause 2:14 32:20	38:12
56:3,19,24	45:10 77:16	Bureau 52:13	caused 39:16,24	claims 74:20
57:2,5 58:14	bigger 46:5	54:4	48:21 63:13	clams 71:24
60:18 64:7	Bill 43:17	Burgess 59:5,6	causes 66:1	clarified 75:17
69:5 75:3 79:5	billion 64:23	62:18	causing 57:19	Clark 33:13,17
79:12 81:14	billion-dollar	burning 60:8,13	Center 36:21	33:18
84:8	61:12	74:24	cents 65:2	class 71:19
back-and-forth	bins 19:9	business 71:9	centuries 30:21	classify 37:12
33:17	black 45:10 49:6	button 50:8	century 60:10	Clayton 3:19
background	bleeder 34:19	bystander 53:17	CEO 49:11	51:8
51:10	blocked 26:22	54:6,8	certain 2:14	clean 35:17
bad 57:18 74:12	bloodstream		certainly 81:3	42:21
BAH 53:14	73:18 74:6	C	CERTIFICATE	cleaner 62:9
band-aids 23:14	Blumenshine	c 3:1 13:11	88:2	cleanup 37:4
bankrupt 64:18	11:6 20:20,21	21:23 25:12	Certified 4:3	64:16 67:5
bankruptcies	27:16 30:11	C-A-T 24:1	88:3,5,23	clear 62:8
64:18	43:21 52:16,22	call 48:7	certify 88:6	clearly 6:11
bankruptcy	Blumenshine's	calling 51:14	chair 47:5	21:21 22:20
26:3 42:14	50:5	CALM 36:17	challenges 85:6	24:15 25:22
65:2,11	board 11:24	Camp 27:2	challenging	26:2,3 28:21
Barbara 59:1	boast 62:11	31:24 32:17	30:17	clerk 10:10,14
Barkley 8:13	bond 13:20,23	34:2 35:16	Champaign	clerk's 10:16

				rage 91
alimata 27:0	75.7 95:12 14	94.01.95.02		26.1.7.11
climate 37:9	75:7 85:13,14 coal's 33:20	84:21 85:23	compensation	26:1,7,11
47:14,14,23 48:2,6,14 49:9	coal-fired 58:8	86:1,3,6,8,16	66:17,24	27:22,24 28:22 30:4 34:7 45:9
, ,		86:18,24	competency 71:19	84:19 85:20
49:13,19 59:16	59:19 73:23	Commission		
60:20 62:7,11	coalition 36:20	47:8	compilation	condition 25:3
climate-related	Coast 74:18	commissioner	11:18	40:3
61:12	cochair 47:6	47:7,22	compile 15:3	conditions 13:5
close 17:23	Code 2:15 7:21	commitment	compiled 7:18	21:2 22:2,8
70:24 86:15	21:22 24:10	62:8	12:13 14:23	23:16 28:9
closed 22:10	28:5 86:11	Committee 47:7	complaint 33:14	29:5
37:5	Coffeen 11:5	communication	33:16	conduct 10:3
closing 27:13	42:7	31:21 53:13	complete 10:6	11:13
28:2 43:2 86:7	cognizance 21:1	68:21	10:12 13:3	conducted 2:21
closure 67:10	collapsed 48:21	communities	29:18 36:10	conducting 5:1
closures 67:14	48:22	30:22,24 31:5	44:11 63:9	conducts 41:7
Club 47:5 59:8	collect 17:24	31:15 33:20	completed 45:13	conference 8:10
clued 65:7	collected 86:16	35:21 36:13,24	46:11,19 54:2	11:1,4,9,14,20
CO2 60:17,20	combine 76:6	37:2 67:19	completeness	11:23 12:12
60:22 61:4,7	combined 76:4,8	community	9:20,24	15:5 18:13,17
61:21 62:2	combusted 62:1	31:12 35:6	completion	26:4,6 82:16
coal 2:16 7:10	combustion	38:17 43:5	53:17	82:24 84:20
7:15,17 8:22	34:11 61:19	48:16 67:22	complex 49:24	88:7,12
13:7 21:13	come 4:19 6:14	community-de	compliance 10:4	conferences
26:10,12,15	18:8 21:14	48:13	13:8 23:21	19:20
27:10 30:19,20	27:13 30:13	compaction	24:3,10 25:10	confines 83:2
30:21,23 31:3	37:16,18,24	23:12 27:6	complicated	confused 48:9
33:19 34:18	45:11 47:11	companies 37:9	44:20 46:9	conscious 82:14
35:2,5,10,19	49:15 58:14	37:10 51:11	comply 13:13	consecutive
35:21 36:8,9	60:24 62:21	59:21 64:16,22	21:22 25:17	10:11
36:11,19,24	64:6 69:5 75:3	67:13	27:20	consequences
37:2,8,9,10,11	78:6 79:17	company 26:14	compounding	60:23 85:2
38:10,13,14	84:8,10	27:21 29:9	23:10	conservation
42:20 43:10	comes 51:21	42:12,14,24	compounds 85:5	2:16 7:17 47:7
50:9,10,17,21	52:20 54:13	48:19 49:8	comprehensive	68:11 71:24
50:23 51:1,5	76:10,11 79:8	50:9,10,18,21	8:24 44:2	conserve 66:10
51:16 53:4,6	coming 74:4	50:23 51:1,5	46:14	consider 14:19
56:5,20 57:9	77:12	51:16 53:4,6	comprehensiv	16:3
57:10,18,22,23	comment 12:11	56:5 57:9,10	76:6	consideration
59:17 60:1,5,8	75:12,13 84:15	57:18 67:7,8	comprised 44:3	30:7 34:7
60:12,13 61:18	87:1	69:8,13 70:3	compromised	58:19,20 73:10
61:20,22,23,23	comments 2:20	71:4 72:24	37:11	85:21,22
61:24 62:1,3,9	5:3 10:23	74:13,20 85:9	concealed 71:17	considerations
62:13 64:17,18	11:17,19 12:10	company's	concern 26:3	27:20
64:22 65:1,6	14:22 15:3	67:16 86:21	44:21 46:7	considered
65:18 66:8,19	16:6 18:1,14	compare 29:12	67:12	12:14 14:24
67:6,16,18,21	18:18 30:7	compel 33:16	concerned 35:18	62:5 86:19
69:8,13 71:4	40:24 43:3	compensate	83:22	consistently
72:24 73:1,12	53:2 68:19	20:4	concerning 24:8	26:1
73:17 74:4,13	80:24 81:11	compensated	40:13	constant 23:10
74:15,17,20,24	82:9,22 83:13	66:13	concerns 23:11	constantly 23:7
				1

_				
constitutional	Corps 45:5,7	42:7 72:11,12	76:24	delay 37:11
71:21	correct 5:11	72:24 73:2,6	day 2:11 45:8	delays 38:24
consult 29:24	39:23 41:7,18	cries 60:11	88:18	denied 31:8
contact 87:2	77:16 82:6	criteria 14:13	days 11:2 12:1	86:21
contacted 52:1	cost 20:7 28:18	15:8 21:24	70:21 80:5	Dennis 33:13
53:8	60:15 85:13	critical 31:2	86:14,18	denote 80:21
contain 40:24	costly 20:4	crooked 63:4	deadly 49:6	deny 14:14
contained 41:3	costs 25:22	crop 63:8 85:8	deal 23:7 44:16	49:17 62:14
containing	36:19 37:3,6	crops 38:19	57:1	85:21
33:10 38:13	cough 58:5	66:13 85:2	dealing 16:15	denying 67:23
contaminating	coughing 58:4	Cross 3:19 51:4	dealt 63:3	Department
32:4 38:14	counsel 3:4 4:12	51:7,8	debt 65:4,8	2:17,21 3:2,5
contamination	88:10,13	cross-referenc	decades 60:24	3:10,15 4:11
35:11 66:18	counted 5:23	9:16	December 11:15	4:22 6:6,8 8:18
Contemporan	country 21:4	CRR 1:24 2:14	31:20 41:6	10:3 11:3 13:2
36:6	59:18	3:22	84:21	13:23 14:3,11
continually	county 2:12	CSR 1:24 2:14	decide 16:22	14:14 17:24
22:22 48:22	10:10,10,13,16	3:22	decided 56:21	24:6 28:6,16
continue 13:21	11:24 20:23	curious 83:5,15	76:5	40:11,14 42:21
22:20 23:17	31:3,10,18,24	current 25:3	decision 14:17	52:14,18 54:12
24:12 25:20,23	38:6,23 43:4	56:15 57:10	15:7 16:16,23	68:19 86:19,24
48:12 65:13	57:1,2,4 68:1	72:1,18	31:1 52:20	Department's
66:9 85:13	68:10 74:13	currently 41:22	86:21 87:3	6:20 15:7 87:3
continued 4:17	80:14,15,22	81:21	declared 65:1	departments
10:21	84:18 85:3	cut-and-paste	declining 36:10	68:19
continues 25:4	County-wide	40:24 41:4	37:8	deposit 28:14
continuing	10:20		DeClue 5:21	described 68:13
13:12 25:8,16	couple 58:17	D	11:7 15:20,22	describes 37:13
41:9 48:19	68:17,22	D 13:15	16:1,11 17:3	descriptive 29:2
contractors	course 30:2	D.C 21:11	17:10,14,17	design 69:3
32:14	48:15 49:12	daily 47:16	30:14,15 37:15	designed 34:6,9
Contractors'	60:4	damage 32:20	37:18,21 52:17	72:1
20:7	court 3:21 6:9	35:22 39:1,24	52:22 64:6,8	destroyed 57:7
contrary 64:21	6:11,16,23	42:13 59:12	68:5 84:4	63:5
contribution	33:15 83:12	60:2 65:6 66:2	decreased 28:18	destroying
61:18 62:4	courthouse 2:12	66:5,15,18,21	deemed 10:6	57:24
control 24:8	2:13 11:16	85:17	Deer 1:10 2:4,8	destruction
29:7 40:13	20:24	damaged 38:21	2:22 8:2 22:14	48:20 57:16
66:7	cousins 59:3	39:20 42:5,6	27:23 31:13	66:23
conversant 30:4	cover 37:6 66:20	damages 63:8	34:6,8,13,17	destructive 66:6
Coordinator	coverage 28:17	85:7	34:18 36:7	67:21
3:14	cracks 81:24	Dan 8:13 52:3	38:4 41:6,22	detail 29:15 41:4
copies 9:11 14:6	Crawford 84:13	dangerous 60:9	41:24 59:11	46:15 81:7
79:20 80:10,10	85:24	dangers 60:6	61:21 62:13	detailed 10:1
copy 6:19 10:9	create 6:11	dark 53:24	68:2 69:3	29:1
30:8 55:7,13	34:10 70:4	data 61:23	84:16 85:9,21	detailing 24:9
79:17 87:2	created 57:13	date 4:18 34:23	deers 33:11	26:7 40:20
Cornell 34:20	creating 22:22	77:24	defined 22:12	details 40:22
corporation	Creek 3:23 24:1	Dated 88:18	definition 25:1	41:15
52:18	31:17,20 32:9	dates 8:22 59:20	degraded 37:1	determine 10:1

				rage 93
20.6 25.11	J:4- J 20-10	22.10.22.22.6	4 47.5 10 57.0	72.10.72.0
28:6 35:11	disrupted 39:10	22:19,22 23:6	east 47:5,10 57:9	72:18 73:8
deterrent 35:6	disruptions	23:8,9,11,15	74:18	endangers 35:7
detours 38:24	42:10	36:2 39:9,10	easy 57:17	ended 32:4
devastating 85:1	distance 78:21	39:14,18 41:8	ecological 72:5	33:18 87:8
devastation 39:5	distant 45:21	41:18 42:10	economic 31:9	endured 38:24
develop 34:14	distress 39:3	43:21 44:6,8	31:11 67:24	energy 1:10 2:4
34:17	District 3:10	44:13 45:13	85:6	2:7,24 3:19 8:2
developed 8:23	4:15 8:12	46:9,11 68:8	economical	22:3 24:2,7,17
development	68:11	68:14 82:8	59:23	24:20 26:13,14
31:11 35:6	ditch 45:6 46:5	85:1	economically	31:7,13 33:14
diagnosed 58:6	ditches 39:17	drainages 23:12	40:2	33:21 39:23
difference 18:13	44:23 45:4,9	drained 44:15	edge 42:6	48:4 49:7,11
different 12:17	45:14,19 46:1	44:17	Edmiston 43:3	49:17 52:19
18:15 23:14	82:7	draining 81:16	Edwardsville	59:16 61:18
78:17	ditching 23:24	dredging 23:12	47:4	62:6,12,15
difficult 23:24	42:11 82:6	Dressen 11:5	effect 13:21,22	65:13 85:15
dig 45:6,24	diverse 72:20	38:1,2 43:14	19:7	Energy's 38:4
digging 45:19	Division 2:19	43:21 75:16	effective 24:9	40:12,15 41:14
dignitaries	4:23 7:7 21:16	76:3 77:11,15	40:14 41:14	48:10
82:17	divorce 55:24	77:19 78:10	effects 23:20	enforcement
diminishing	56:17	79:14,21 80:16	29:19 73:12	7:14
85:8	DNR 46:12	80:23	effort 23:14	enforcing 7:9
dioxide 61:7	53:18 54:6	drill 32:14	eight 19:3	engineers 27:3
Diplomatic 88:4	55:18,21 69:7	drinking 35:8	Eileen 11:6	45:6,7
directed 47:22	71:3 83:8	driveway 21:4	either 19:19,22	ensure 36:23
direction 39:10	document 29:12	driving 21:1	41:15 45:19	entering 65:12
39:11 88:9	36:19	drone 81:15	53:21 77:8	entertain 48:10
Director 21:16	documentation	drop 86:8	82:4	enthusiasm 5:21
dirty 62:9	81:1 86:10	dropping 74:13	electronic 79:19	entire 8:24 14:1
disappointed	documented	drops 23:1	80:9	17:8 19:11
19:18 20:11	26:14 32:12	drought-related	electronically	38:17 55:8
disappointing	documenting	61:14	80:19	73:7 76:6
19:23	81:9	due 22:13 39:1,3	Ellen 11:7 30:15	environment
discounts 52:22	documents	39:10 42:9	52:17	26:9 32:21
discovered 58:5	86:14	84:23 85:4	eloquent 50:7	34:1 57:21
68:17	doing 56:18 69:8	dug 39:17 44:23	else's 50:7	60:7 61:21
discrepancy	70:6	82:7	email 53:10	environmental
59:15	dollar 65:3	dumped 32:2	emailed 53:9	13:9 23:22
discuss 75:11	dominated	72:24	emails 53:22	32:19 64:19,23
discusses 59:14	30:20	dust 35:19 61:14	emergency 4:18	65:6 66:5 67:1
discussing 76:17	door 7:3	73:21,22 74:3	26:15,21 48:23	72:5 82:16
discussion 68:7	downstate 59:7	74:4	emissions 47:19	85:11
68:7	61:14		48:1,3	environmenta
disease 74:10,11	downstream		emotional 19:7	82:14
disgrace 63:9,10	58:7	E 3:1,1 13:19 earlier 49:5 83:1	employed 88:10	EPA 32:10 60:8
dismiss 33:16	downwind 58:8		88:14	73:14
54:18	dozen 38:20	early 56:3 60:7	employee 88:13	EPA's 35:17
dismissing 54:20	drain 22:19 44:2	easier 6:16 57:17	employees 33:24	equal 65:22
dispersion 33:1	46:14 81:16		encompass 9:13	equipment
displaced 42:5	drainage 20:5	easily 44:14	endangered	71:10
	l			

Equitable 62:7	existing 12:23	false 56:16	36:1,4 39:5,6	flat 19:24 39:13
ER 53:18	13:5,14 22:2	families 42:5	39:13 41:20	43:7
erosion 20:1	25:18 28:2	family 33:13	42:8,11 82:4	flooded 36:1
24:22 31:11	65:18	38:8 48:20	fighting 23:8	40:9 45:16
39:14,15 40:8	exit 32:24	51:19 81:4	file 10:9	48:22
63:13 85:1,5	exit 32.24 exiting 32:24	family's 39:5	filed 10:13 33:13	flooding 36:14
escalating 25:23	exiting 32.24 expected 49:5	41:20	42:14 46:11	floor 7:3
	=	far 35:18 44:18	65:10 80:13,22	flow 46:17
escape 49:11	expedited 6:19		· · · · · · · · · · · · · · · · · · ·	
especially 35:6	expensive 36:8	79:5	files 80:19	foam 32:1,8
41:4 42:13	60:2,21 61:11	farm 32:8 33:6	filing 63:19	FOIA 26:21
50:5 57:21	experienced	38:7 39:5,6	filings 33:17	79:23,24 80:11
established	84:23	40:6 42:4,5,8	final 52:5,10	FOIA'd 81:7
64:12	expiration 12:23	42:24 56:13	53:8 86:20	follow 49:12
Europe 82:15	explain 75:24	59:12 73:22,22	finally 34:16	followed 34:15
evaluate 67:16	exposure 32:19	farmable 25:2	finances 26:2	63:21 73:5
evaluated 31:2	expressly 22:12	farmed 22:15	financial 65:8	following 86:15
evaluations 71:1	extensive 35:10	farmer 18:23	66:17	follows 24:15
evening 4:9 8:7	66:1,23	66:17 71:10	financially	food 85:18
46:23 50:24	extent 40:1	farmers 33:8	37:10,11 88:14	force 13:21
51:1 59:5	extract 62:13	56:6 66:12	find 22:12 26:20	forced 33:18
events 36:14	85:13	84:22 85:6,17	52:12 60:22	forces 48:16
60:20 61:13	extracted 61:21	farmers' 66:8	71:9 72:9,14	foregoing 88:7
ever-diminishi	61:24	farming 19:11	finding 75:5	foreseeable 40:4
66:8	extraction 48:18	20:3 38:17	78:14	Foresight 26:13
ever-increasing	extractive 48:12	farmland 19:24	findings 68:18	27:3,22 31:12
26:8	eyes 59:11	32:5 35:22	finds 13:4	32:2,13,23
everybody 6:1		42:22 45:11	finish 58:14	33:1,14,15,17
8:8,8 69:10,16	<u>F</u>	66:10 84:17	finishing 52:1,4	33:21 34:4
80:4	F 14:2 24:4,4	85:3,7,18	fire 31:24 32:10	35:13 65:10,12
everyplace 73:9	39:22 40:11	farms 38:8	32:24 33:4	Foresight's
evidence 13:16	face 48:13 49:18	48:20 81:5	first 5:2,10,13	32:11
13:20 32:9	85:6	farther 44:19	5:24 6:22 9:18	forever 32:3
73:11	Facebook 83:17	46:8	10:18 12:1	forgiveness
exacerbates	faced 60:11	favor 47:20	34:14 38:10,20	64:19
62:1	facilitate 8:23	fear 26:18	43:23 44:6,7	forgot 61:13
exact 52:13	facility 38:11,18	feasible 40:2	44:15,16 62:20	form 76:20
example 33:19	fact 23:7 49:6	FEBRUARY	64:4 65:16	format 72:2
56:2 71:15	59:17 73:13	1:13 2:8	82:18	Formerly 39:13
76:23	78:16	federal 7:8	fish 33:11	forward 20:18
excavating	factor 20:8	35:17 36:23	fishing 72:12	44:4,12
23:12	failed 22:4 55:21	64:21 70:5	five 2:9 19:2	fought 43:4
exceed 60:19	64:16	73:4	22:21 25:4,24	found 7:18,20
exclusive 52:8	failing 22:4	feeling 70:23	34:2 48:11	35:16 68:22
excuse 36:2	23:16	feelings 57:14	77:2 78:5,6	69:9
45:17 67:11	fails 14:12	feet 23:2 39:7	81:13	four 10:11,22
68:7 70:18	failure 35:4	field 19:21 22:13	five-year 17:12	15:23 16:3
exempted 69:8	36:12 38:16	24:8 32:8	17:12	19:2 28:2
69:13	67:13	40:13 81:12,15	fix 70:2 71:12	29:20 34:6
exemption 69:15	faith 49:16	81:16 82:1	fixed 9:1 70:8	53:6 64:22
exhibits 26:7	falls 42:20	fields 25:2,5	71:11	67:23
CAMBUILS 20./		110105 23.2,3	/ 1.11	01.23
	I	I		I

fourth 41:21	glass 74:3	greenhouse 48:1	hearing 1:9 2:3	43:17 48:10
59:17	Glen 3:23	greetings 8:16	2:7,20 3:3 4:2	49:11,17 50:3
Fowler 68:12	global 47:15,19	grew 38:7 43:4	4:7,12,13 5:1,9	51:23 52:19
frame 66:24	61:3,8	ground 22:23	6:10 7:22 8:11	62:15 73:2
Frank 24:5	glove 61:9	23:15 24:22	9:8,9 12:1,4,6	84:21
Franklin 31:24	go 4:24 5:10	28:21 32:5	12:12 14:15	hilly 21:3
freshwater	23:4 27:15	40:6,8 42:24	15:19 16:5	hinder 48:23
71:24 72:17	45:6 46:4,8	43:7 44:24	17:24 18:16	hired 6:8 32:13
frightened 26:17	47:14 56:23	45:14,15 46:16	19:20 21:6	Historic 2:12
front 4:20 5:16	57:20 61:8	group 72:21	27:17 38:15	historical 60:22
fueling 60:12	64:14 71:18	growing 59:23	44:22 46:24	history 31:4
full 13:21 25:10	72:10 73:17	growth 31:9	54:11 76:5	42:15 85:10
29:16	74:15 75:2	67:24	82:24 83:12	hit 50:8
full-time 70:20	78:22 79:4,12	guarantee 44:1	84:8 86:7,15	hitting 60:22
function 37:14	80:11	65:18	86:17,23 87:5	hold 46:18 47:9
fund 37:6	goal 20:8 59:15	guaranteed 45:1	87:8	80:4
further 88:12	Godfrey 84:14	guess 5:15 16:8	hearings 21:7	Hollo 1:24 2:14
furtherance	84:17	16:11 17:3	43:24 52:14	3:22 4:3 88:3
18:16	goes 28:8,10	51:13 74:22	54:4	homes 26:17
future 19:1,5	44:19 79:9	83:19	heavy 26:8	38:20 42:4
28:18 31:2	going 8:15 18:4	guessing 74:19	HEL 31:8 66:7	48:21
40:21 43:10	23:6 25:23	guidance 24:19	66:20,22	honor 21:13
59:24 62:6	43:19,22 44:3	guy 82:14	HEL's 65:19	Honorable 52:3
	44:13 45:1,12	guys 32:15 56:17	held 7:22 9:9	hope 46:18
G	46:2,15 55:6	63:21 83:19	43:24 67:8	Hospital 35:4
gallons 32:1	55:24 56:21		Hello 62:22	host 31:15
garage 19:10	57:16,22 63:20	H	help 21:8 36:23	hosting 46:24
gas 48:1	71:12 74:1,18	habitat 48:17	63:10 77:3	hotspot 34:14
general 27:22	74:20 75:2,3	hand 61:8	helping 48:5	hotspots 34:11
32:16 41:2	77:4 79:16	happen 30:2	heroes 21:9	hottest 61:10
generally 9:13	81:2,4,5 82:8	happened 35:23	heroines 21:9	hour 39:3
generation	82:22 86:6	happening	high 75:6,7	hours 2:9 20:9
19:13	good 4:8 5:7 8:7	24:22 29:17	high-hazard	70:22
generations	8:8,10 29:11	36:7	35:1,5 38:13	huge 80:19 82:7
43:10	39:13 46:23	hard 27:19	higher 22:10	human 47:18
gentlemen 4:9	49:15 58:16	57:13	74:10	humanity 60:6
geographically	59:5	harm 31:5	highly 49:3 60:1	62:4
80:18	government	harmful 33:20	highway 39:1	humans 60:6
getting 5:7 20:14	63:16	harming 33:6	59:13	humongous 26:2
58:1 71:4	governor 82:14	hazards 36:15	highways 21:5	hundred 33:9
73:20	grain 19:9	headwater 23:5	Hillsboro 1:1,10	72:8
Ginger 3:23	grandfather	health 8:16 26:9	2:1,4,7,13,23	hundreds 20:9
give 84:8	56:4	31:9 32:22	3:19 8:2 10:19	
given 6:4 24:20	grandfathered	35:20 36:15	11:4 12:3	I
27:18 31:4	77:16	64:20 67:24	20:23 22:3	I-55 61:15
85:10	granted 18:19	73:12	24:2,7,17,20	iced-in 21:3
gives 2:19	79:5,10 83:3	hear 11:9 12:6	26:14 31:7	ideally 16:5
giving 56:24	graphic 60:16	24:14 53:7	35:4,19 38:4	IDNR 18:11
~ ~	O 1		· · · · · · · · · · · · · · · · · · ·	
66:7	grave 49:5	heard 6:1 21:2	38:12 39:23	19:14 20:22

	•	•	•	
22:12 23:4	58:18	82:23 84:8,9	29:15 34:9	Kemi 3:9 4:20
24:16,20 29:14	impound 35:2	84:20 88:7,11	37:9 58:18	8:12 15:16
29:21 30:1	impoundment	information	59:9,14	50:13,16 76:4
31:21 41:3,13	26:15,18 38:16	10:2 14:3,19	issuing 63:18	Kentucky 70:10
41:23 44:1	impoundments	61:18 87:2		key 18:13
46:24 48:1	26:10,12 35:1	informed 47:11	J	kill 73:18
50:19 58:19	35:5,7 38:13	infraction 70:19	J-O-Y-C-E	killed 61:16
62:14 63:20	38:19	infractions	20:21	kind 19:20 27:4
66:7 67:8,17	impressed 58:3	70:17	jail 45:7	37:22 69:2
68:11,18 71:6	impression 17:4	injured 61:15	James 3:14 5:6	83:17
78:14,21 81:8	17:7	injustice 67:1	Jane 21:9	kinds 73:5
IDNR's 25:1	improve 31:8	INPC 47:21	January 4:17	know 7:4 8:6,15
41:16 47:22	68:1	inspection 29:15	34:22,22 41:5	15:22 17:4
49:12	improvements	41:3	88:18	19:7,24 26:11
IEA's 61:23	30:23 36:22	Instagram 83:17	Jeff 50:9,20	27:4 29:23
ignored 58:21	improving 19:12	installed 45:20	jeopardize	30:1 45:5 50:9
III 2:15	impunity 48:20	instituted 8:20	85:16	51:12,18,19
illegal 63:17	inability 66:14	insufficiency	jeopardized	53:21,23,24
Illinois 1:2 2:2	inactive 37:4	65:17	32:17	55:17,18,23
2:13 3:2,5,6,10	64:12	insufficient	jeopardizes	56:16 57:8,15
3:12,15,16,23	incapable 22:15	64:17	13:12 25:16	57:17,23 60:1
4:10,22 7:11	incident 32:12	insurance 13:16	Jim 4:21 9:21	63:11,15 64:8
7:18,20 21:9	included 68:21	intention 48:10	job 5:7 15:3	68:18,23 69:20
21:22 24:10	75:22 77:15	interest 14:16	70:16,19,23	69:23 70:12,24
26:21 28:4	includes 19:9	interested 11:23	jobs 49:3 62:6,7	71:12 72:6,8
30:15 31:14,16	including 21:9	88:15	70:20	73:1 74:4,12
32:10 42:19,21	23:20 27:20	interesting	John 50:2 52:16	74:13,19 75:9
47:4,5,6,8 48:5	45:15 75:20	70:15	53:14	76:23 78:21
50:3 52:13	increased 28:18	interrupt 58:12	Johnson 21:10	82:3,13,15,20
55:18,20,22	increases 61:7	intervals 9:1	Journal-News	83:22
58:9,10 59:8	increasing 48:4	introduce 20:19	10:19	known 32:2
59:20 61:23	incurred 48:19	introduced 8:11	Joyce 11:6 20:20	34:10
62:8,11 65:2,3	indiscriminate	inundate 38:16	50:5 52:16	
65:14 67:4,7	33:1	investment	judge 52:3 54:4	L
69:7 70:11,13	individual 9:1	67:22	54:5,17,24	lack 22:18 26:4
71:3,14,18	56:24 66:20	involved 27:5	judgment 52:5,5	41:4 66:22
74:17 86:11	individuals	54:13 61:15	54:19	81:7
88:6,23	55:19	involves 35:14	judicial 52:10	ladies 4:9
Illinois' 59:15	Industrial 60:12	irresponsible	54:1,17	Lake 42:7
illness 58:5	industry 7:10	31:4	July 9:24	land 2:16,18
illustrates 60:17	30:20 36:11	irresponsibly	June 9:24	4:14,22 7:6,17
immediately 7:3	influence 33:20	32:18	justice 82:4	19:8,12,14,18
33:4	influencing	isolation 9:2	justified 31:4	20:5,12 22:5
impact 85:4	46:17	issue 63:1,12	K	23:16 37:1
impacting 48:24	informal 8:10	76:15,24 80:20		38:18 40:2,16
impacts 23:10	10:24 11:4,9	issued 12:21	Karyl 11:5 38:1	41:2 43:7 50:3
29:3 33:5 42:6	11:13,19,23	76:22 77:2,10	Kasten 62:22,23 64:2 81:4	51:22,22 57:7
48:6 85:11	12:12 15:4	86:21		57:16 59:3
impeding 39:9	18:13,17 19:20	issues 8:16 11:22	keep 70:19 keeping 54:19	63:5 66:15,21
important 21:7	26:4,6 80:6	20:6 27:10	keeping 54:19	69:18,22 73:3

81:9 85:4	36:19 65:3	38:19	69:3	9:3
landowner	license 71:17	longwall 19:1	majority 42:19	mention 48:24
66:20	licenses 71:16	22:5,13,17,20	making 86:20	82:12
landowners	life-threatening	22:24 23:9	malformed	mentioned 10:5
19:16 57:1,5,5	60:20	34:11,13 35:23	33:11	15:4,9 23:3
lands 37:5 40:1	lift 28:20 45:20	36:16 38:7	management	26:3,16 78:12
landslides 36:14	likes 68:18	39:2,7,16,21	26:21 34:5	78:23 81:6
large 39:14,16	limit 5:24	41:9,11,22	manager 3:10	83:14
42:8	line 26:22 29:6	42:1 43:5	8:13 50:13	mentioning 59:1
largest 59:17	82:18	52:17 55:22	59:7	mess 63:6
64:22	lips 33:10	56:6 57:7,12	manifested	met 13:6 22:3
Larry 11:4 12:3	list 15:6 27:18	65:13,22 66:1	47:18	metals 26:8
18:22 59:12	35:17	66:6,23 67:18	manner 22:7	method 34:17
62:24	listed 11:18	81:21 84:23	23:17 25:9,21	Metro 47:5,10
lastly 29:20	42:17 65:16	85:12	41:12 76:14	microphone
late 43:3 56:3	Litchfield 11:5,7	look 61:17 63:12	map 29:8,8	6:13,15
law 36:21 64:21	30:15	63:13 69:17	69:17	mile 58:7 73:24
73:4	Litigation 3:22	76:6 78:22	March 65:11	miles 39:3
laws 36:23	little 20:13 44:11	79:13,17 82:4	68:9 81:14	mill 51:22
lawsuit 63:19,20	live 43:17 47:3	looked 82:1	Marie 1:24 2:14	million 60:19
lawyer 50:22,23	50:2 58:7 74:9	looking 53:18	3:22 4:3 88:3	61:5 65:4,4
leader 59:16	84:17	69:21 76:9,10	Mark 34:20	67:6
leading 62:11	lived 51:19	looks 81:9	market 37:8	millions 62:13
Leaning 38:21	livelihood 58:1	lose 63:15	Mary 11:5,7	millstone 51:20
learned 24:17	85:17	loss 48:17 66:13	30:14 52:17	mind 48:7 84:10
38:15 45:4	livelihoods 66:8	lost 33:8 34:2	material 39:23	mindful 25:13
leases 56:23	lives 34:2 35:8	39:15 40:8	66:21	mine 1:10 2:4,8
led 36:21	38:8 49:1 75:5	lot 30:4 44:21	materials 18:2	2:22 8:2,22,24
left 6:2 18:6 25:5	84:14	57:13	matter 52:19	10:10 19:16
26:17 37:1	livestock 33:9	loud 47:17	maximize 33:23	22:14,19,22
41:20 64:10	living 33:8	loudly 6:10	mean 5:15 17:7	23:4,16 24:23
legacy 21:14	LLC 1:10 2:4,7	lowered 73:14	27:14 46:4	24:23 25:4
legal 3:4 4:11	3:19 8:2 31:8	LRD 7:7 8:20	53:3 54:16	26:2 27:2,11
63:22	33:14 34:21	9:19 11:1	55:23 70:20	27:23 29:3,4,9
length 78:9	62:15	LRD's 7:16	74:15 82:13	29:17,24 31:13
let's 37:19 52:12	load 26:8	LRDP 53:18	83:16 84:1	31:17,20,21,24
52:23 53:11	local 21:2 23:2	lung 49:6 74:10	means 14:22	32:2,14 33:8
61:17 71:23	84:22	lungs 73:17 74:6	17:16 42:1,4	34:3,6,8,13,15
72:9	located 7:3		54:10	34:17,18 35:10
letter 21:23	10:10 35:3	M	mechanized	36:7,8,12,19
23:19 24:4	logic 55:4	ma'am 37:24	49:4	37:5,12,12
25:12 28:5	logistics 5:1	75:15 84:6	media 83:18	38:4,20 39:7,8
36:17 52:24	long 27:5 39:2	machine 19:9	meet 14:9,13	40:19 41:7,17
68:11,16	40:9 45:10	machinery	meeting 30:17	42:23 44:1
letters 68:20	62:5 70:21	23:13	40:16 83:9	48:16 49:3,13
level 39:6 40:6	71:5 72:2 74:9	maintain 22:19	member 11:24	57:12 59:11
42:8 61:4	long-lasting	maintained 46:3	47:4	63:1 64:18
liabilities 64:16	32:20	maintaining	Memorandum	65:22 66:23
64:20,24	long-term 67:22	40:3	9:4	67:14 68:2,2
liability 13:16	longer 36:24	major 68:14	memorialized	69:3 76:7,8

81:8 84:17	40:17,20,21,23	38:1 43:16	85:11	78:3 79:3
86:1	41:7,11,14,18	47:3 50:2 51:8	negatives 71:3	80:13,17 82:21
mine's 29:22	41:19	59:6 62:22	negatives 71.3 negligent 32:23	83:11,21 84:3
39:17 40:22	mixing 23:11	84:13	neighbor 57:14	objections 10:24
41:16 48:21	mode 33:22	names 5:7	57:14	12:10
49:7	modeled 44:6	NASA 60:16	neighbor's	obligated 36:10
mined 25:24	modeling 29:8	nation 21:12	69:21	obligations
38:8 39:11	moderately 10:1	nation 21.12 national 59:16	neighbors 31:17	64:20 65:8
41:10	modern 67:4	61:2	31:22 33:13,24	observations
mined-out 41:8	modern-era	natural 2:17 3:2	57:20	29:16,17
miner 51:6	36:18	3:5,6,10,11,15	neither 37:2	observed 24:22
miner 31.0 mineral 56:2,11	moments 47:21	3:16 4:11,22	88:9	38:9 41:17
minerals 2:18	Monday 11:15	23:9 39:9	never 19:21 20:1	obstructions
4:14 49:17	monitor 40:15	42:10,21,23	40:6,9 46:10	36:2
miners 33:3 34:2	41:9	46:17 48:5	new 12:17 33:9	
57:23	monitoring 35:9	52:14,19 82:8	73:11 77:20	obviously 81:8 occur 29:10
miners' 32:24	35:13 40:23	85:19	news 10:18	60:21
miners 32:24 mines 2:18 4:14	41:13 61:3	Nature 47:8	26:19 83:18	occurrence 56:9
31:14 37:4,7		Nature 47:8 Navarrete 3:3		ocean 84:2,3
37:14 37:4,7	Montgomery 2:12 10:13,20	4:8,10 5:14,17	newspaper 12:1 nine 19:4	Oceanic 61:2
	31:3,10 38:6	5:20,22 15:13	NOAA 61:11	October 53:17
49:16 64:11,11 65:13 67:4	43:4 68:1,10	15:16,18 17:19		odd 44:11
	74:13 84:18	17:23 18:20	nonprofit 52:18 Normal 20:3	
minimal 19:24	85:3			off-scale 66:7
minimum 39:14		20:15 27:14	Normally 68:20 79:22	office 2:18 4:11
mining 2:16	monthly 19:22 41:2	30:10 37:15,19		4:14 10:16
7:10,15,17 13:7 19:1		37:23 43:13	north 44:9,13	49:16 53:8
	months 26:16	46:22 49:21	Northern 3:10	78:20 85:20
21:13 22:5,10	moot 71:20	58:11,22 62:17	8:12 21:15 Nos 2:23	officer 3:3 4:12 8:11 9:9 27:17
23:19,21 26:10	morning 73:20 74:1	64:1 68:4 69:4	note 9:14 12:15	officials 32:13
30:19 34:18,21		75:14 84:5,11		
35:23 36:16	mother 59:1	86:3,5	15:6	offset 34:10
39:2,21 41:22	moved 33:15	near 33:8 35:3	notice 2:19 10:11 12:2	oh 17:10 57:18
42:1,12 43:5	MSHA 33:2,3	38:11 46:10		70:1
52:17 55:22	34:16	84:18	notices 11:2	okay 5:14 11:11
56:6,15,21	mud 72:13	nearby 32:8	notifications 53:23	12:8 15:14
57:7,11 59:9	multiple 8:22 48:18 53:9	33:11		16:3,11 17:2,3
59:10,14 65:5		nearly 61:4,20	number 5:23 9:6	17:10,10,14,23
66:1,6 67:18 67:21 70:3,5	municipal 45:22 mussel 72:20	necessary 25:9 62:5	9:6 21:24 24:5	30:14 54:22 55:6 58:16,22
81:21 84:23			24:13,16 28:3	,
81:21 84:23 85:12	mussels 72:1,11 72:13,17 73:3	need 7:4 25:14 49:22 54:23	28:22 29:1,14 29:20 49:2	64:14 71:7 75:18 77:6,19
	73:8		51:18 56:20	•
minutes 2:9,10		73:5		77:22 78:10
18:5 50:1	mutually 52:8	needed 26:1	Numbers 8:1	79:14,21 80:16
missed 53:24	myriad 55:23	35:2	0	80:23 83:4
mistake 70:4	N	needing 67:4 needs 19:15 54:5	o'clock 2:10,11	older 79:1 OMN 53:18
mistakes 69:3	$\overline{\mathbf{N}3:1}$		Oakes 3:4 4:21	
mitigate 60:2	name 4:9 5:3,5	63:10 66:9	18:9,10 50:12	on-the-ground
mitigation 24:9	11:9 12:6	67:14 72:4	50:16,23 54:3	29:2,5,15
24:21 29:7	18:22 20:20	negative 67:18	54:10,22 55:2	once 39:6 42:14
39:18 40:14,16	10.22 20.20	71:2 73:12	3 1.10,22 33.2	76:15 79:5
	l	I	l	1

_				rage 99
80:6	29:12 34:8	nament 26:12	75:5	02.2 04.16 10
	42:3 55:16	parent 26:13 85:9	Peoria 11:7	83:2 84:16,19 85:10,21
one-page 52:24 one-time 43:10	65:8 69:6 79:5			permits 8:19,23
ones 15:4 72:6		Parkway 3:23	percent 67:7	10:17 12:17
	79:12,15	part 7:21 9:16 12:14 14:6	perfectly 70:23 70:24	
79:2,15	originally 4:16			13:5,14 15:23
ongoing 23:13	orphaned 37:14	27:13 28:5	perfluoro 32:3	15:24 16:3,7,9
23:24 26:10 29:18 35:20	Osibamowo 3:9	38:17 39:17	performance 13:20 24:7	16:10,16,17
39:4 48:18	4:21 8:3,7,12	46:1 54:17,24		21:19,21 23:18
	11:11 12:8	72:3,19 77:5 78:3 79:11	40:12,15	27:7,11 28:24
online 7:1 26:20 78:24	15:14,17,21,24	86:10	performing 41:10	34:6 35:10
	16:4,15 17:8			38:4,10 41:24 48:11 52:8
open 86:12	17:11,15,18	partially 67:5	period 12:11	
operation 13:21 33:22 34:8	30:9 50:19	participants 11:18	13:22 80:7 87:1	56:22 57:8 65:19 67:24
	55:8,10,14			
49:4,7 68:13	ought 69:23	participation	periods 40:9	68:2 70:14
operations 7:15	out-of-state	87:5	permanent	75:19 76:8,18
13:8 34:5	71:17	particles 73:17	66:15	78:15 79:1,4
42:15 48:3	outcome 88:15	particular 79:24	permanently	82:18,19
65:13 76:7,13	outcomes 35:24	particularly	42:8 85:7	permittee 10:19
76:20 77:9,21	67:18	20:24	permit 1:11 2:5	permitting 7:14
78:2	outline 40:21	parties 88:11,14	2:8,22 3:14 8:1	16:9,16,20
operator 9:4	outlines 48:2	parts 60:19 61:5	8:5,21 9:1,6,6	43:23 71:3
13:15,19 41:9	outside 7:3	pass 45:11 54:14	9:14 11:14	person 11:24
66:19	overlies 43:1	61:1	12:14,16,18,20	18:5 20:17
operator's 13:12	overlord 31:15	passageways	12:20,23,24	personal 57:6
25:16	oversee 30:19	39:8	13:4 15:1,7	personally 44:5
operators 36:9	owned 58:9	passed 79:11	16:2,2,18 17:5	persons 14:16
37:12 64:17	owner 31:13	passing 62:6	17:6,8,11	pertaining 41:5
65:7	owners 29:21	Paszkiewicz	18:19 22:2,14	petitioner 52:18
opinion 21:19	42:18	3:22	23:4 24:5,11	PFAs 32:4,20
Oplt 46:23 47:3	owners' 29:23	path 59:24	24:14,15,18	33:1,5,7,10
84:7,12	P	patience 64:9	25:18 29:7,13	phonetic 53:19
opponent 60:11		pattern 82:8	31:7 32:15	photo 81:23,24
opportunities	P 3:1,1	patterns 42:11	34:24 36:1	82:5
29:24	P-F-A-S 32:4	Patton 34:20	38:15 39:19,22	photographed
opportunity 6:4	p.m 4:7 6:7 87:8	pavement 39:3	42:3 46:19	32:7
43:11 59:6	page 80:3,5,8	pay 46:2 64:15	49:17 52:9	photos 29:4,16
76:16	paid 20:13,14	payments 63:16	53:3 54:13,16	81:1,12,13,15
opposed 9:1	63:8	Peabody 56:20	54:18,20 55:7	81:15,19 82:3
83:7,8,10	panel 19:3 41:23	65:1,5	55:8,16,22	physical 79:17
opposite 71:7	44:15,16 81:13	pearls 72:14	56:1,18 58:18	pieces 73:16
opposition 38:3	81:20,20	pending 7:24	62:14 63:2,12	74:2
oral 5:3 14:18	panels 19:2	15:7 53:14	65:21,23 66:3	pillar 65:23
organizations	22:24 34:12	79:2,4	66:3 67:8,9,9	place 44:24
47:10	38:20 39:7,11	pensions 64:20	67:15 69:7,15	46:15 47:13
organized 50:5	39:16 41:8,10	people 47:1	72:1,4,7 75:19	73:7 79:16
75:12	41:17,23 44:7	56:11 61:16	76:1,2,15,21	placement 35:7
organizing 59:7	44:8,15,17	63:9 70:16	76:24 77:1,6,9	places 36:13
original 21:8	48:22	71:8 73:21	77:16,20,21	plain 47:23
24:11,15,18	paperwork 52:6	people's 57:24	78:4,4,8,9,13	plan 24:8 29:7
	l		l	l

1			I	I
34:19 40:13	pooling 85:5	proactive 19:15	project 27:3	pump 46:5
44:2,6,11 46:1	popularity	probably 50:7	promised 46:11	pumping 45:20
46:11,14 47:23	59:23	58:13 62:24	prompt 24:8	81:17
48:2 49:13	population	problem 35:20	40:14 41:14,19	pumps 81:17
67:14 75:11	72:20	45:1 65:16	promulgated	pursuant 2:15
77:9	portion 46:12	70:8 71:12	2:15 7:19	7:23 9:9 11:21
planned 48:21	poses 32:21	72:3	proof 63:22	13:24,24 86:11
planning 24:21	position 50:14	problems 22:17	proper 63:21	put 31:23 69:22
40:21 84:8	positive 49:18	22:23 55:17,23	property 19:8	78:24 80:2
plant 35:3 58:8	positives 71:2	56:1 68:14	29:21,23 42:13	pyritic 34:10
66:14 73:23	possible 20:10	70:2 85:1	56:10 57:24	
74:8,17	36:3	procedure 8:23	59:4	Q
planting 36:4	post-1977 37:4	procedures	proposed 13:22	quality 27:6
plantings 85:2	power 47:12	63:22	protect 43:5	quarterly 24:9
plants 59:19	58:8 59:19	proceed 52:7	protected 21:12	24:17 40:20,22
platform 36:18	73:23	54:21	40:17	question 11:22
65:17 67:13	powerful 66:19	proceeding	protecting 55:21	16:12 25:7
played 60:5	ppm 60:23	51:13	protection 13:9	46:2 54:14,16
please 5:3 6:10	practices 20:3	proceedings	23:22	75:17 78:11
6:14,14 7:5	25:3,8	6:24	proudest 47:21	questions 17:20
9:14 12:15	prairie 43:7	process 8:5,21	prove 51:17	18:14,18 27:6
15:6 20:18	pre-mining	9:17 12:14	71:19	30:3 82:22
43:15 53:19	23:15	14:23 17:20	provide 5:2 8:4	quick 27:15
86:8	preparation	21:23 36:9	14:18 15:5	quite 51:20
plenty 70:12	35:3	43:23 44:22	18:2 29:21	78:21
PM 73:15	present 3:19	56:18,24 57:13	59:8 80:1	quote 22:10
podium 6:13,15	13:7 23:19	71:3 76:7,9	provided 7:1	47:24 60:10
20:19 30:13	50:24 56:4	80:3,14	10:2 13:15,19	quotes 22:6 24:6
49:23	presentation	processing 8:18	14:4,22 83:11	28:9,14
point 54:7 71:20	50:6	9:5 38:11,18	86:24 87:1	
pointed 43:6	presented 26:7	produce 38:19	provides 13:2	$\frac{R}{R^{2+1}}$
68:15	35:24	producer 59:17	14:15 49:3	R 3:1 52:16
policy 9:3 31:5	presenters 50:4	producing 65:5	public 1:9 2:3,7	raise 27:9,24
36:18,19 59:16	Preserves 47:8	production	2:20 4:2,13 5:1	raises 46:2
62:12 65:17	president 34:20	34:14 45:15	5:8 7:22 9:9	Raoul 32:17
67:12	82:16	46:16 48:5	10:11,16 11:24	rapidly 59:22
polluting 48:12	press 32:16	85:8	12:3,5,11,12	RDR 1:24 2:14
pollution 35:18	pretenses 56:16	productive	14:15 15:19	3:22
35:20 36:15	pretty 70:24	40:10 42:22	16:5 18:16	RDR/CRR 4:3
48:16 73:12	previous 26:2	45:11 64:13	26:9 27:21	reach 72:13
75:2	previously 43:20	productivity	30:3 32:17,21	read 14:5 71:23
pond 31:17,19	primarily 9:21	85:4,18	42:6,13 43:24	84:10
31:20 33:11	primary 33:22	profit 48:20	46:24 48:22	ready 15:11
ponded 22:13	prime 85:3	profits 33:23	82:24 83:9,12	real 35:20
25:5	print 50:8	49:7	86:23 87:5	reality 56:17
ponding 22:18	printed 51:24	program 13:10	publication	71:8
24:23 29:8,10	printer 50:8	13:14 23:23	10:20 11:2	realized 73:24
45:18	prior 37:5 50:13	24:3 25:11,17	published 10:18	realizing 36:11
pooled 39:15	private 42:13	progress 60:13	pull 72:13	really 5:7 8:14
42:9	privilege 33:19	60:14	pulled 72:11	8:14 24:21

				rage 101
28:24 50:1	refer 24:4	48:10 67:8	61:19 81:7	38:24 49:1
58:20 76:14	reference 43:2	77:9	represent 51:10	resiliency 49:18
82:3	referred 42:24	renewable 48:4	51:11 54:12	resilient 48:6
realtime 29:2	81:22	59:21 85:15	representation	resolved 11:23
88:5	referring 27:22	renewal 2:22 8:5	51:3	resources 2:18
reason 8:18	50:12,20	8:18,21 9:19	representative	3:2,5,6,11,11
reasonable	reflect 21:8	10:6,9,12	15:2 50:24	3:15,16 4:11
27:10	regarding 2:7	11:14 12:15,22	51:4,7	4:22 37:1
reasonably 40:4	7:10,14 8:4	13:4,11,22	representing	42:21,23 48:5
reasons 27:19	11:14 16:6,24	14:12 15:1,7	8:13	52:15,19 66:11
recall 70:9	29:3 31:1	15:23 16:6,18	request 11:8,24	85:19
receive 87:2	32:23 52:3	17:1,5,6,9	12:5 31:6	respectfully
received 11:3,17	55:22 84:16	25:15 27:19	46:13 54:21	31:6
11:19 33:2	87:3	31:3,7 38:4	84:16,19	respiratory 58:4
52:2 53:13,20	regards 16:17	41:24 42:4,18	requested 5:8	respond 18:14
53:21,22 86:18	Regional 21:16	54:13,16,21	12:3 13:11	54:6 83:1
receptacle 34:1	Registered 88:4	55:14 62:15	25:15	responded 82:23
reclaim 36:12	regulation 14:1	67:23 68:2	requesting 6:18	82:23
65:20	15:9 22:7	75:19 76:7,8	53:10	response 11:10
reclaimed 20:10	regulations 7:10	76:10,11,14,16	requests 10:24	12:7 17:22
64:14 67:5	7:13,19,24	76:18 77:2,5,7	11:3 52:24	53:4,5,5,7,10
reclamation	9:10,14,15	77:13,24 78:4	require 13:24	86:4
2:17,19 4:15	10:4 11:22	78:9 79:3,8,9	28:3 29:1	responses 18:17
4:23 7:6,17	13:17 14:6	79:11,13 80:14	required 12:2,17	32:11 83:13
13:8 19:14,18	21:13 28:2	83:2 84:16	13:17,20 14:3	responsibilities
20:8,12 23:20	36:23	86:21	24:11,18 28:14	29:22
24:2 25:9,22	regulators 67:13	renewals 1:11	34:16 35:9	responsible 7:9
25:24 28:19	67:16	2:5,8 9:5,14	36:6 40:19	31:15 57:15
29:4 36:6,8,11	regulatory	21:21 22:21	44:18 65:19,22	70:3
36:18 37:3,6	13:10,13 23:23	31:1 67:15	66:20,22	responsive
37:11 41:2	24:3 25:10,17	75:18 85:21	requirement	86:13
64:15 65:14,17	30:18	renewed 17:13	28:10	responsiveness
65:19 66:24	reject 52:9	21:20 28:24	requirements	30:2
67:17	related 16:9	35:1 66:4	7:14 14:10	rest 49:9
record 6:9 18:3	17:20 73:21	repeat 67:3	40:16,18 67:15	restitution 70:7
18:11 61:10	88:10	repeated 27:21	requires 47:16	restoration 25:2
83:18 86:10,12	relation 7:24	replacement	47:17 60:2	36:3
recorded 83:7,8	14:24	40:16	69:14	restore 23:16
recordings 6:23	relative 88:13	report 19:22	requiring 20:9	restored 22:7
records 60:22	release 32:16	29:18 41:6	28:17	36:3 40:7,8
80:12	relentless 60:17	61:24	rescheduling	restoring 40:2
rectified 70:18	61:6 62:2	reported 32:12	21:6 30:16	restrictions
71:5	relevant 14:19	reporter 3:21	research 72:18	35:19
redesigned 72:4	28:9	4:4 6:9,11,16	74:7	restroom 7:5
reduce 60:11	remain 38:22	6:23 83:12	reserved 6:6	restrooms 7:2
reduced 39:2	86:12	88:2,4,4,5,23	resident 32:7	restructuring
88:8	remained 22:15	reports 24:9,17	38:6	65:12
reducing 47:18	32:11	26:19 29:2,15	residents 21:2	result 61:20
48:2	remind 18:12	30:5 40:20,22	23:2 26:16	resulted 64:19
reevaluate 67:17	renew 8:1 21:20	41:1,3,16	30:21 35:8	65:3
	l	l	l	l

resulting 39:24	risk 32:21 36:12	78:1	73:6	Shoal 72:11,12
84:24 85:18	36:13 74:10	says 52:22 53:1	sections 7:23	72:24 73:2,6
results 62:1	85:17	69:2	9:10 40:23	short 7:7 14:8
retention 31:19	risking 33:3,23	scale 47:19	secure 65:9	23:1 52:21
retired 59:20	rivers 72:22	scared 31:18	security 65:15	61:19,20,22
retiree 64:24	roadmap 47:24	Schafer 3:14	see 8:8 18:5 22:1	shorter 78:7
retirement	roads 21:4 42:6	4:21 9:21	23:21 25:20	shorter 78.7 shorthand 4:2,3
59:20	48:23 85:3	75:23 76:4	27:19,21 28:21	88:4,23
return 23:14	role 60:5	77:13,17,20	45:18 47:23	show 20:12
returning 25:2	room 47:1 65:23	78:19,24 79:19	48:7 50:11	69:20 70:6,17
review 8:24 9:17	room-and-pillar	79:22	51:14 52:12,23	70:18,24 71:5
10:1,1,3,16,17	39:8	scheduled 4:16	53:11 54:20	showed 19:19
12:14 14:20	Route 39:1	Schram 38:12	64:18 71:24	showing 82:5
24:6 40:12	rubber-stamps	Schraut 5:9,12	72:9 75:23	shown 33:21
52:10 54:1,17	19:22	5:15,19 11:4	78:20	shows 19:21
80:7 86:20	rules 21:17	12:3 18:7,20	seeing 79:1 86:5	69:18 70:1
reviewed 9:2,20	ruling 54:11	18:22,23 20:16	seen 59:11 78:17	74:7
12:13 14:24	rumor 26:23	Schraut's 59:12	self-insurance	shut 49:13 70:6
21:16 78:7	27:1	Schroeder 43:16	13:17	side 26:15
80:4	run 1:10 2:4,8	43:17	selling 56:5	Sierra 47:5 59:8
revised 14:2	2:22 8:2 10:11	Schuering 52:3	sending 80:19	signed 36:17
revision 16:1,2	22:14 27:23	54:5,5,24	sends 8:16 49:4	56:7
17:5,6 24:5,13	31:13 34:6,8	Schuering's	sense 17:1 55:5	significant 12:18
34:24 39:19,22	34:13,17,18	53:8	85:12	62:3
41:24 66:3	36:7 38:4 41:6	Scientists 60:18	sent 53:10	signings 56:4
67:9 75:21	41:22 59:11	Scott 49:22 50:2	September 10:7	similar 45:21
76:12,13,19,20	61:21 62:13	50:15,17,21	10:14,21 32:1	sincerely 30:6
77:1,4,5,7,11	68:2 69:3	51:2,6,9 52:16	serious 32:21	sinkhole 56:9,14
77:14,17,21,23	84:16 85:9,21	52:23 53:14	34:7	74:14
78:2,3	Run's 41:24	54:3,8,15 55:1	seriously 48:24	sinking 19:8
revisions 12:18	Russell 11:6	55:3,9,12,16	Services 3:22	sister 59:2
75:20		58:11,16,23	set 7:13 15:1	sites 36:8,13
Revolution	S	68:12 69:4,6	30:1	38:22
60:12	S 3:1	82:11,21 83:4	seven 2:11 19:3	sitting 19:6
richest 43:7	sacrifice 43:9	83:11,14 84:1	70:21	64:13
rid 56:22 65:7	66:9	Scott's 59:1	severe 39:3	situation 9:22
ridiculous 63:9	safe 32:24	scrubbers 74:8	severely 33:12	10:5
right 4:8 5:6 7:4	safer 62:9	sealed 34:16	sewer 45:22	six 16:20 18:5
12:21 15:14	safety 26:9 31:9	searching 26:19	shadow 26:5	19:2 50:1
17:17,19 37:19	31:18 32:18	seasonal 29:18	39:20 41:5,15	81:20
46:10 50:11	33:3,23,24	Seated 4:20	42:2 43:1	size 65:24
52:9 54:15	34:9 36:15	second 5:17,18	65:21 66:2	slide 27:2 31:19
57:11 63:16	67:24	6:8 44:15 63:7	81:2	slope 26:15 27:1
71:13 75:3	Sally 59:6	secret 32:11	sharks 83:21,22	31:19
86:5	Sandy 84:13	section 11:21	84:1	slopes 20:2
rights 29:23	85:24	12:2,19 13:1	shed 64:23	39:16 45:10
56:2,11	satisfactorily	13:24 15:1	sheds 19:9	slurry 26:10,12
rise 60:17 61:6	13:6 22:3	21:22 28:5,11	shipped 74:19	26:15 35:5
62:2	save 47:10	28:12 39:2	shipping 74:21	38:13,19 73:1
rising 74:2	saying 53:10	69:7 72:19	74:23 75:1	small 56:9 73:16
	l	l	l	l

CIMOD A 26 F	1 74 22 75 6	CENTRAL ACTED	l ,	1 70 5
SMCRA 36:7	74:23 75:6	STIPULATED	subsidiaries	78:5
smoke 60:11	standing 51:17	4:1	65:10	synchronize
soil 23:12 63:12	54:11,14	stop 25:14 27:12	substances 32:3	8:21
63:15 68:10	start 4:24 8:3	storage 80:9	substantially	system 34:19
soils 23:11	15:18 17:21	storm 61:14	13:12 25:15	66:6,12
solar 59:22	18:4,20 42:15	strategies 48:2	succeed 22:4	systems 45:23
62:10	67:10 77:22	stream 23:5	successive 12:21	65:18
sold 56:3,11,12	86:6	streams 42:7	suffer 48:16	T
57:8	started 10:20	72:22	suffered 30:22	
solution 58:2	34:13	street 73:24	sufficient 10:2	take 44:24 46:15
Somebody 5:12	starting 4:7	stringent 67:15	65:20	53:2 54:23
63:10	21:23 81:14	structure 40:17	Sugar 27:2	57:2 61:12,17
someplace 75:1	state 1:2 2:2 7:8	structures 38:21	31:24 32:17	80:8 83:12
somewhat 48:9	7:11,15 21:12	85:2	34:2 35:16	85:20
sorry 9:24 27:8	32:18 38:3,24	struggle 66:18	sulfur 75:7	taken 4:2 28:1
33:2 37:10	52:13 59:13	stuff 63:4 74:18	sulfur's 34:10	38:18 45:14
58:5,11 80:7	62:10 65:2	subdivisions	summary 27:18	46:16 50:13
sort 77:1	67:20,22 69:14	45:22	summation	58:19,20 73:9
south 44:8,14,19	70:11 71:14,16	subject 12:16	36:20	88:7,12
46:8,8	71:18 88:6,23	subjects 43:20	sun 74:2	talk 49:2 77:6
space 6:6	state's 42:23	submission 2:20	supervisor	talked 81:1
sparkling 74:3	69:17	submissions	68:12	talking 16:8
speak 5:10,13	stated 9:8 32:17	27:10 84:21	supplies 40:17	75:10 78:13
6:4,10,15	32:19 39:23	submit 40:19	supply 35:8	task 30:17
20:18 21:17	40:11 41:6	68:5 69:1	85:19	taxpayers 37:3
30:12 43:12	82:24	75:11 80:23,24	support 36:17	team 59:9,10,14
47:9,11 48:15	statement 8:4	81:10,19 82:2	59:9	technical 10:3
62:20 64:4	9:12 84:9	82:9 84:15	supporting 22:8	Technically 16:4
speakers 5:23	statements 6:17	85:24	22:9 40:5	technologically
specialist 19:15	14:18 18:1	submittal 2:21	67:20	40:1
19:19 20:12	84:22 86:9,13	submitted 2:23	supposed 37:6	technologies
species 48:17	86:14	9:19,23 11:1	sure 5:3,24 6:10	59:22 60:2
specific 24:14	states 24:6 30:19	12:11 32:9	21:12 34:22	tell 46:10 73:21
specifically 13:2	70:10 71:15	68:11	55:2,18 58:15	81:4
specifics 29:11	72:17,22 73:7	subside 39:9	58:17 83:20	tells 72:19
speed 20:13	75:1,4	subsided 20:5	surface 2:16	temperature
spend 20:13 spent 19:11	stations 45:20	39:6,12 40:7	7:17 13:7 20:5	61:8
spontaneous	45:21	42:9 81:10,13	22:4 23:19	ten 5:23 33:9
34:11	Statistical 61:24	81:23	32:6 39:24	61:5 86:14,18
spring's 61:13	status 35:14	subsidence 20:2	41:16,18 49:16	tendency 79:4
Spring s of 1.13	37:14 54:7,9	22:14,18 23:10	56:8 81:24	tension 60:5
3:12,16 21:11	71:24	24:7 29:3,7	surface-water	term 12:23
78:20	statute 7:12,16	36:1 39:1,21	41:8	17:12,13 37:13
springs 33:10	statute 7:12,10	39:24 40:5,13	surprised 51:12	76:17,21
Square 2:13	32:19	41:7,11,17	68:23 83:18	terms 13:5 22:1
staff 20:22 59:8	Steiner 50:20	42:10 57:7	surrounding	28:15 76:18
stand 49:22		66:2 81:24	32:5,5 33:7	terrible 63:5
	step 9:18 10:8		· ·	66:16
standards 12:16	10:23 20:18	82:2 84:23,24	35:12 36:13	testing 69:9,14
13:9 15:1	49:18	85:5,7	switched 34:18	text 68:5
23:22 72:5,5	steps 49:12	subsides 22:23	synchronization	LALUG.J
	1	l	l	l

thank 4:19 8:5	thoughtful 50:6	21:14,18 27:9	49:9,10,15	unevenly 22:23
11:11 12:8	thoughts 25:19	30:7 49:15	truths 47:2	unforeseen 4:18
15:10,16,17	58:14	50:10 80:24	try 82:6	unfortunately
17:17 20:15,22	threat 35:4	83:23 84:10	trying 51:16	66:15 68:16
20:24 21:5	threaten 48:23	tonight's 6:9	58:4	unit 8:24
27:16 30:6,9	threatens 47:15	17:24 18:17	tumors 33:10	United 30:19
30:10,16 37:21	three 16:13	86:17	turn 57:2 60:10	72:17,22 73:7
43:11,13 46:20	22:16 29:14	tons 61:20,22	turned 44:7	74:24 75:4
46:22 49:20,21	36:5 38:23	62:13 70:12	turning 57:4	units 8:22
53:15,19 58:22	39:5 61:20	top 82:18	turnout 8:9	University 58:9
58:23 59:5	69:9	topography	turns 45:2	74:17
62:15,17 63:24	threshold 47:14	23:15	twenty-four	unmined 44:18
64:1,9 68:4	73:14	topsoil 25:6	2:10	unplanted 41:20
75:14 77:3	time 4:7 5:5,24	39:15 40:8	twin 59:2	unsafe 21:1
82:10 84:12	6:2 8:19 9:7	torn 38:21	two 15:24 16:2,7	unsuccessful
85:22 86:2	18:5 20:9	touch 43:19	16:9,10,14,16	31:23
87:4	25:13 27:12	tough 60:11	16:17 17:6	unusual 56:8
thanks 46:23	28:16,17 29:9	toured 59:10	28:22 29:1	update 53:12,18
68:3	30:7 34:21	town 38:17	30:21 34:24	updated 14:2
thereto 88:14	37:16 40:9	43:24	35:5 38:12	53:12
thing 19:17	44:12 58:12,13	towns 38:11	39:19 41:24	upload 6:19
51:24 58:24	62:12,16,20	Township 50:4	44:7,7,15 53:5	upstream 23:5
69:24 71:9	64:4 66:24	51:23	56:10 66:3	upwelling 33:9
72:9 75:16	68:9 71:1,11	toxic 32:1 33:5	67:9 70:20	urge 62:14
83:5	75:13 78:7	35:2 60:1	76:18,19 77:11	use 7:4 20:24
things 30:1	79:11 85:13	toxins 26:8	two-day 71:19	45:22
55:20 63:22	time-consuming	tragedy 33:19	type 46:14	uses 22:8,10
73:5 75:11	20:4 36:9	Tragically 34:1	typewriting 4:5	40:4
78:17	time-relevant	transcribe 6:9	88:9	usual 58:21
think 5:6,23 8:9	29:16	6:16		usually 9:18,21
19:14 28:24	timeline 41:19	transcribed 4:4	U	70:19 80:2,8
34:21 50:12	timely 22:7,11	transcript 6:12	U-type 34:19	Utah 71:16,20
54:15 55:17,20	23:17 25:1,9	6:19,20,24	U.S 64:22 72:20	Utilities 59:24
56:15 57:13,23	times 9:2 53:9	transition 30:23	umbrella 42:20	Utility 59:21
58:12,12,19	66:14	67:10	unaware 73:19	
64:10 69:1,10	tired 75:10	transitioning	undeniable	V
69:10,12,15	tirelessly 43:4	85:14	49:10	valid 12:20,20
71:6,8,22 72:1	Title 7:20	transportation	underground	71:17
72:3 73:4,6,11	today 4:19 8:8	48:4	22:5 23:21	valuable 42:24
73:23 75:9,10	8:13 15:5	treated 21:4	49:4	85:18
78:12 82:15	47:11 72:2	trekked 21:10	understand	value 40:3
85:16	83:16	21:11	23:24 45:8	various 68:19
thinks 70:5	today's 4:17	tremendous	55:4 59:21	varying 9:2
Third 6:18	6:24 72:4	45:3	69:12	vehicles 48:24
third-hand 30:5	86:15	Tribune 32:10	understanding	61:15
thirty-five 2:9	told 55:1 56:5	tributary 32:8	5:9 29:22 52:4	ventilation
though 71:20	ton 61:20	trucks 74:16	underwater	34:19
thought 29:10	Toni 47:3	true 26:24 51:18	22:15	venue 14:15
69:23 75:21	tonight 8:14	truly 49:6	unequal 66:18	viable 67:21
82:11	15:2 20:23	truth 47:11,17	uneven 20:2	view 79:15

				- 5
violated 32:18	watershed 23:8	woman 84:7	77:2 78:5,6	1970s 21:10
violations 27:21	way 3:6,11,16	won 60:14	yesterday's 61:4	1977 37:5 64:12
31:5 35:13	45:12 62:11	word 22:11 24:1	younger 73:20	1980s 60:18
42:16,17 48:18	68:13 71:16	wording 28:8		
85:10	78:17 80:1	work 20:8 23:13	Z	2
violators' 35:17	81:16	24:23 25:22	zero 48:1	2 19:9 24:5,13
Virginia 70:11	ways 20:4 47:19	27:7 29:4 46:6	zombie 37:13	2.5 73:15
voice 47:1	we'll 6:18,19	50:17,19 59:2	64:10	20 39:3
Voices 36:22	we're 16:5,15	70:20 71:8,13		2008 34:3 68:10
vulnerable	55:6 57:9,20	73:20 74:1	0	2012 34:14
31:22	57:20,21 59:17	workers 49:4	1	64:21
	75:4 76:9,10	working 36:20	1 2:12 21:24	2013 76:24 77:2
W	76:17 78:1	70:21	10 65:11	2014 34:15
Waggoner 84:18	we've 59:11	works 16:21	10 63:11 11 41:23 43:18	2015 34:15 72:7
walk 48:8	60:24 74:5	45:8 66:12	65:11	77:1,4,23
walking 48:7	78:17 81:1	world 43:8	12 10:7 19:9	2016 34:16 62:7
want 5:16 20:22	weather 4:18	72:21 74:14	12 th 88:18	65:1
21:17 24:16,19	Web 80:3,5,8	worst 28:23	1300s 60:7	2017 64:21
27:24 38:3	website 6:20	wouldn't 44:10	1300s 00.7 14 10:14	2018 8:20 9:4
56:23 58:14,17	9:12 10:18	write 53:3,3,4,5	16.1 65:4	77:3
69:5 78:20	47:23 55:11,15	53:6	17 65:2	2018-1-04 9:4
79:15 80:23,24	60:8,16 61:4	writing 13:4	1700 7:21	2019 34:16
81:10,19 82:2	78:14,15,18	written 5:7	1773.13 7:23	2020 34:22
wanted 8:14	79:1,7,10	10:23 12:10	9:10	65:11 77:24
18:12 56:22	week 70:21,22	14:18 18:1	1773.13(a) 12:2	2021 32:1 41:24
57:6 58:24	73:13,14	30:8 53:22	1773.13(c) 2:15	62:8 77:12
68:6 75:11	weekends 70:22	75:12 86:8,13	1773.14 11:21	2022 41:1 61:22
wants 14:7	weeks 10:11,22	86:24	1773.14(d)(5)	61:24 2023 9:24 10:7
warned 60:18,24 wash-water 35:2	53:5,6	wrong 72:3	86:12	10:14,21 11:15
washed 25:6	well-being 47:15	<u>X</u>	1773.19(d) 12:19	31:20 41:1,6
washing 38:14	wells 69:9,11,18		1774 21:23	61:10 67:2,3
Washington	69:20	Y	1774.15 7:23	84:22
21:11	went 73:1,2	yard 51:21	9:10	2024 1:13 2:8
wasn't 45:1	82:15,15 weren't 56:21	Yeah 15:13 16:4	1774.15(a) 12:20	4:17 36:17
83:16,18	58:18	17:18 51:9	1774.15(c)(1)	65:16 67:12
waste 34:1 38:14	west 42:6 70:10	55:9 68:23	13:1	88:18
watching 19:8	whatsoever 56:8	83:14	18 10:21	2050 48:1
water 24:23 35:8	70:14	year 41:21 61:5	1800 28:5	208.144 55:12
35:9,14,18	wildlife 33:6	61:10 63:8	1800.15 28:11	21001 53:19
36:14 37:1	William 43:17	81:18	28:12	217 3:7,12,17
39:15 40:17	Williamson	years 22:16,21	1800.4 28:5	22 4:17
42:9,22 46:18	31:18	22:21 25:4,24	1800.60 13:18	225 7:18
60:3 63:15	wind 59:22	29:10 36:5,21	1800s 56:3	23 53:17 81:14
66:11,21 68:10	62:10	38:23 39:6	1817.121 24:11	24 68:9
69:7,8,11,13	wish 5:2,10 6:3	48:11 49:5	185 39:1 59:13	24/7 48:17
69:16,18,18,19	18:2 47:13	51:18 56:20	1850 7:21	242 51:15
69:20,21 81:18	witness 45:3	61:6 68:17,22	19 56:20	25 53:17
85:5	witnessed 39:4	70:21 72:8	1900s 56:3	26 3:23
waters 32:6	Wolff 3:4	73:16 74:6	1950 60:18	27 9:24
			1960s 21:10	

3 327.8 30 11.2 61:15 70:21 80:5 307-9320 3:24 32.500 67:2,4 35.73:15 62.94 43:13 359 60:19 309 6:22 83:1,19 9.6 16:2,2 17:5 17:6 22:14 24:5,11,16,18 27:7 29:7 34:24 36:1 38:3 39:19 43:23 51:14 66:3 67:9,9 73:1.8-acre 66:3 63:13 69:15 75:19,20 76:1 76:9,15,19,22 77:6 79:5 79:5 79:5 79:5 52.6 4:23 5:35 4:7 558-6622 3:7 6 66 23:2 39:6 41:23 6-20:1					
327:8 30 11:2 61:15 70:21 80:5 307-9320 3:24 32,500 67:2,4 35,500 67:2,4 36,601 9 39,61:2 386,61:1 38:,501 7 7 7 7 723:2,39:7 7 7-4-60 72 20:2 7,731.8 -acre 422 7,731.8 -acre 422 37:30 65:7 7 731.8 -acre 424 434.23 44.69,223 61:22 40 80:5 400 35:13 42:17 67:6 419 67:6 419 67:6 419 67:6 419 67:6 419 67:6 419 67:6 419 67:6 419 67:6 419 67:6 419 67:6 419 67:6 419 67:6 419 67:6 419 67:6 419 67:6 424 2:23 8:1,19 9-6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 446 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 623:2 39:6 41:23		((00 (7 7			
30 11:2 61:15 70:21 80:5 70:21 80:5 307-9320 3:24 32,500 67:2,4 3573:15 350 60:19 39 16:2 398 61:6 399 2:23 8:1,19 9:6 16:2,2 17:5 17:6 22:14 66:3 67:9,9 43:23 51:14 66:3 67:9,9 43:23 51:14 66:3 67:9,9 43:23 51:14 66:3 67:9,9 411:15 84:21 4,469,233 61:22 77:6 79:5 44 411:15 84:21 4,469,233 61:22 40 80:5 414 20 61:5 419 67:6 410 35:13 426 61:4 434 27:8 46,000 32:1 5 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 623:2 39:6 41:23		· /			
70:21 80:5 307-9320 3:24 32,500 67:2,4 35 73:15 350 60:19 39 16:2 398 61:6 399 2:23 8:1,19 9:6 16:2,2 17:5 17:6 22:14 24:5,11,16,18 68:37 9:19 34:24 36:1 38:5 39:19 4 24:5,11,16,18 66:3 67:9,9 68:13 69:15 76:9,15,19,22 77:6 79:5 4 411:15 84:21 4,469,223 61:22 40 80:5 400 35:13 42:17 67:6 419 67:6 410 70:19					
307-320-324 32,500 67:2,4 32,500 67:2,4 350 60:19 39 16:2 398 61:6 399 2:23 8:1,19 9:6 16:2,2 17:5 17:6 22:14 245;11,16,18 27:7 29:7 34:24 36:1 38:5 39:19 43:23 51:14 66:3 67:9,9 43:23 51:14 66:3 67:9,9 43:23 51:14 66:3 67:9,9 42:2 7,731.8-acre 66:4 720 7:19 785-5191 3:17 785-9037 3:12 8 81:13 2:8 61:16 80 12:1 8 81:13 2:8 61:16 80 12:1 9 97 3:15 9 97 3:15 9 97 3:15 9 97 3:15 9 97 3:15 9 97 3:15 9 97 3:15 9 97 3:15 9 97 3:15 9 97 3:15 9 9 37:15 9 9 9 37:15 9 38:20 9 38:20 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38:30 9 38	30 11:2 61:15				
32,500 67:2,4 3573:15 350 60:19 39 16:2 398 61:6 399 2:23 8:1,19 9.6 16:2,2 17:5 17:6 22:14 24:5,11,16,18 42:12 43:23 51:14 66:3 67:9,9 68:13 69:15 76:9,15,19,22 77:6 79:5 4 411:15 84:21 4,469,223 61:22 40 80:5 400 35:13 42:17 67:6 419 67:6 419 67:6 419 67:6 419 67:6 420 61:5 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 623:2 39:6 41:23	70:21 80:5				
35.73:15 350.60:19 39.16:2 398.61:6 399.2:23.8:1,19 9:61.6:2,2117:5 17:62:14 24:5,11,16,18 27:7.29:7 34:24.36:1 38:5.39:19 43:23.51:14 66:3.67:9,9 68:13.69:15 75:19,20.76:1 76:9,15,19,22 77:679:5 72.61:15 720.718 411:15.84:21 4,469,223.61:22 440.80:5 400.35:13.42:17 67:6 420.61:5 424.2:23.8:1,19 96.38:5,15 55:7.67:10 75:19.76:2,11 76:15.78:13 426.61:4 434.27:8 46,000.32:1 5 5.2.64:23 5:35.4:7 558-6622.3:7	307-9320 3:24				
350 60:19 39 16:2 398 61:6 399 2:23 8:1,19 9:6 16:2,2 17:5 17:6 22:14 24:5,11,16,18 27:7 29:7 34:24 36:1 26:8 39:19 43:23 51:14 66:3 67:9,9 68:13 69:15 720 713.18-acre 66:4 412:3 8 81:13 2:8 61:16 80 12:1 8 81:13 2:8 61:16 80 12:1 9 973:15 99 973:15 99 973:15 55:7 67:10 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 55 5.2 64:23 5:35 4:7 558-6622 3:7 6 623:2 39:6 41:23	32,500 67:2,4				
39 16:2 398 61:6 399 2:23 8:1,19 9:6 16:2,2 17:5 17:6 22:14 24:5,11,16.18 27:7 29:7 7-foot 20:2 7,731.8 39:20 42:2 42:2 43:2 48:8 8 1:13 2:8 61:16 80 12:1 9 9 73:15 92.2 65:4 8 8 1:13 2:8 61:16 80 12:1 5 5.2 64:23 5:35 4:7 558-662 3:7 6 6 623:2 39:6 41:23	35 73:15				
398 61:6 399 2:23 8:1,19 9:6 16:2,2 17:5 17:6 22:14 24:5,11,16,18 27:7 29:7 34:24 36:1 38:5 39:19 43:23 51:14 66:3 67:9,9 68:13 69:15 75:19,20 76:1 76:9,15,19,22 77:6 79:5 4 411:15 84:21 4,469,223 61:22 40 80:5 40 80:5 419 67:6 419 67:6 419 67:6 419 67:6 419 67:6 420 61:5 55:7 67:10 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-662 3:7 6 623:2 39:6 41:23	350 60:19				
399 2:23 8:1,19 9:6 16:2,2 17:5 17:6 22:14 24:5,11,16,18 27:7 29:7 34:24 36:1 38:5 39:19 42:2 38:5 39:19 68:13 69:15 7:31.8-acre 66:4 7:24 87:8 7:30 6:5,7 72 6:15 720 7:19 785-5191 3:17 785-9037 3:12 4 411:15 84:21 4,469,23 61:22 40 80:5 400 35:13 42:17 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 623:2 39:6 41:23	39 16:2				
9:6 16:2,2 17:5 17:6 22:14 24:5,11,16,18 27:7 29:7 34:24 36:1 38:5 39:19 43:23 51:14 66:3 67:9,9 68:13 69:15 75:19,20 76:1 76:9,15,19,22 77:6 79:5 4 411:15 84:21 4,469,233 61:22 40 80:5 419 67:6 419 67:6 419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5,2 64:23 5:35 4.7 558-6622 3:7 6 6 623:2 39:6 41:23	398 61:6	68 67:7			
9:6 16:2,2 17:5 17:6 22:14 24:5,11,16,18 27:7 29:7 34:24 36:1 38:5 39:19 43:23 51:14 66:3 67:9,9 68:13 69:15 75:19,20 76:1 76:9,15,19,22 77:6 79:5 4 411:15 84:21 4,469,23 61:22 40 035:13 42:17 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 424 66:14 434 27:8 46,000 32:1 5 5,2 64:23 5:35 4:7 558-6622 3:7 6 6 623:2 39:6 41:23	399 2:23 8:1,19	7			
7-foot 20:2 24:5,11,16,18 27:7 29:7 34:24 36:1 38:5 39:19 43:23 51:14 66:3 67:9,9 68:13 69:15 75:19,20 76:1 76:9,15,19,22 77:6 79:5 4 4 11:15 84:21 4,469,223 61:22 40 80:5 400 35:13 42:17 67:6 419 67:6 420 61:5 424 22:23 8:1,19 99 73:15 92.2 65:4 8 1:13 28:61:16 80 12:1 9 9 73:15 92.2 65:4	9:6 16:2,2 17:5				
27:7 29:7 34:24 36:1 38:5 39:19 43:23 51:14 66:3 67:9.9 68:13 69:15 75:19,20 76:1 76:9,15,19,22 77:6 79:5 4 4 11:15 84:21 4,469,223 61:22 40 80:5 400 35:13 42:17 67:6 419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5.35 4:7 558-6622 3:7 6 6 623:2 39:6 41:23	17:6 22:14				
34:24 36:1 38:5 39:19 43:23 51:14 66:3 67:9,9 68:13 69:15 75:19,20 76:1 76:9,15,19,22 77:6 79:5 4 411:15 84:21 4,469,223 61:22 400 35:13 42:17 67:6 419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 75:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5535 4:7 558-6622 3:7 6 6 623:2 39:6 41:23	24:5,11,16,18				
34:24 36:1 38:5 39:19 43:23 51:14 66:3 67:9,9 68:13 69:15 75:19,20 76:1 76:9,15,19,22 77:6 79:5 4 411:15 84:21 4,469,223 61:22 40 80:5 400 35:13 42:17 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 623:2 39:6 41:23	27:7 29:7				
43:23 51:14 66:3 67:9,9 68:13 69:15 75:19.20 76:1 76:9,15,19,22 77:6 79:5 4 411:15 84:21 4,469,223 61:22 40 80:5 400 35:13 42:17 67:6 419 67:6 420 61:5 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5 52 64:23 5:35 4:7 558-6622 3:7 6 6 623:2 39:6 41:23	34:24 36:1				
43:23 31:14 66:3 67:9,9 68:13 69:15 75:19,20 76:1 76:9,15,19,22 77:6 79:5 4 411:15 84:21 4,469,223 61:22 40 80:5 419 67:6 419 67:6 419 67:6 420 61:5 52 64:23 8:1,19 96 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 623:2 39:6 41:23	38:5 39:19	· /			
68:13 69:15 75:19,20 76:1 76:9,15,19,22 77:6 79:5	43:23 51:14				
75:19,20 76:1 76:9,15,19,22 77:6 79:5 4 411:15 84:21 4,469,223 61:22 40 80:5 400 35:13 42:17 67:6 419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 623:2 39:6 41:23	66:3 67:9,9				
73:19,20 76:1 76:9,15,19,22 77:6 79:5	68:13 69:15	-			
77:6 79:5 77:6 79:5 4 411:15 84:21 4,469,223 61:22 40 80:5 400 35:13 42:17 67:6 419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 623:2 39:6 41:23	75:19,20 76:1				
77:6 79:5 4 411:15 84:21 4,469,223 61:22 40 80:5 400 35:13 42:17 67:6 419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 623:2 39:6 41:23	76:9,15,19,22				
4 4 11:15 84:21 4,469,223 61:22 40 80:5 400 35:13 42:17 67:6 419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 23:2 39:6 41:23					
8 4,469,223 61:22 40 80:5 400 35:13 42:17 67:6 419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 23:2 39:6 41:23		785-903 7 3:12			
4 11:13 84:21 4,469,223 61:22 40 80:5 400 35:13 42:17 67:6 419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 23:2 39:6 41:23	4	Q			
4,40,3,223 61:22 40 80:5 400 35:13 42:17 67:6 419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23	4 11:15 84:21				
400 35:13 42:17 67:6 419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23	4,469,223 61:22				
67:6 419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23	40 80:5	80 12:1			
67:6 419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23	400 35:13 42:17	9			
419 67:6 420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23	67:6				
420 61:5 424 2:23 8:1,19 9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23	419 67:6				
9:6 38:5,15 55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 23:2 39:6 41:23	420 61:5) 2.2 03.4			
55:7 67:10 75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23	424 2:23 8:1,19				
75:19 76:2,11 76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23	9:6 38:5,15				
76:15 78:13 426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23	55:7 67:10				
426 61:4 434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23					
434 27:8 46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23	76:15 78:13				
46,000 32:1 5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23					
5 5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23					
5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23	46,000 32:1				
5.2 64:23 5:35 4:7 558-6622 3:7 6 6 6 23:2 39:6 41:23					
5:35 4:7 558-6622 3:7 6 6 23:2 39:6 41:23					
558-6622 3:7 6 623:2 39:6 41:23					
6 6 23:2 39:6 41:23					
6 23:2 39:6 41:23	558-6622 3:7				
6 23:2 39:6 41:23					
41:23					
6- 20:1					
	6- 20:1				
		<u> </u>		 <u> </u>	