		Page 1
1	ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA)	
	NOTICE OF WATER DISCHARGE PERMIT PUBLIC HEARING	
2	NPDES Permit No. IL0062189	
3		
4		
5	PEABODY COULTERVILLE MINING, L.L.C.	
6	Gateway Mine	
7	Randolph County	
8		
9		
10		
11		
	PUBLIC HEARING	
12	Tuesday, March 31, 2015 6:00 p.m.	
13		
14		
15	Sparta City Hall, Council Chambers	
16	114 West Jackson Street	
17	Sparta, Illinois 62286	
18		
19		
20		
21		
22		
23		
24		
25		

1	TNDEV		Page 2
1	INDEX		
2		PAGE	
3	OPENING REMARKS		
4	by the Hearing Officer	6	
5	COMMENTS BY THE PUBLIC		
6	Ken Rogers	18	
7	Tyler Rotche	20/38	
8	Cindy Skrukrud	29/45	
9	Marjorie Wayland	36	
10			
11	Hearing Adjourned	54	
12			
13	(No exhibits were marked.)		
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
23			

		Page 3
1	ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA)	
	NOTICE OF WATER DISCHARGE PERMIT PUBLIC HEARING	
2	NPDES Permit No. IL0062189	
3		
4	PEABODY COULTERVILLE MINING, L.L.C.	
5	Gateway Mine	
6		
7		
8		
9	A PUBLIC HEARING was held on the 31st day of	
	March, 2015, between the hours of 6 o'clock in the	
10	evening and 7:09 o'clock in the evening, at the	
	Sparta City Hall, Council Chambers, 114 West Jackson	
11	Street, in Sparta, Illinois, before Pamela K.	
	Needham, CCR, CSR (MO, IL), in a certain cause now	
12	pending before the ILLINOIS ENVIRONMENTAL PROTECTION	
	AGENCY (IEPA).	
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24 25		
<u> </u>		

MEMBERS OF THE ILLINOIS EPA PANEL: Mr. Lynn E. Dunaway Environmental Protection Specialist Groundwater Section, Bureau of Water Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217)785-4787 lynn.dunaway@illinois.gov Mr. Scott Twait Water Quality Standards Unit Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 558-2012 scott.twait@illinois.gov Ms. Iwona Ward Environmental Protection Engineer Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 2309 West Main Street, Suite 116 Marion, IL 62959 (618) 993-7200 iwona.ward@illinois.gov Ms. Joanne Olson Technical Advisor, Assistant Counsel Bureau of Water Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 782-5544 joanne.olson@illinois.gov THE HEARING OFFICER: Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702 (217) TSS-8-8800			Page 4
Environmental Protection Specialist Groundwater Section, Bureau of Water Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 785-4787 lynn.dunaway@illinois.gov Mr. Scott Twait Water Quality Standards Unit Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 558-2012 scott.twait@illinois.gov 10 11 Ms. Iwona Ward Environmental Protection Engineer 12 Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 13 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702	1	MEMBERS OF THE ILLINOIS EPA PANEL:	
Groundwater Section, Bureau of Water Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 785-4787 lynn.dunaway@illinois.gov Mr. Scott Twait Water Quality Standards Unit Illinois Environmental Protection Agency Springfield, IL 62794 (217) 558-2012 scott.twait@illinois.gov Ms. Iwona Ward Environmental Protection Engineer Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 3309 West Main Street, Suite 116 Marion, IL 62959 (618) 993-7200 iwona.ward@illinois.gov Ms. Joanne Olson Technical Advisor, Assistant Counsel Bureau of Water Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 782-5544 joanne.olson@illinois.gov THE HEARING OFFICER: Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702	2	Mr. Lynn E. Dunaway	
Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 5 (217) 785-4787 lynn.dunaway@illinois.gov 6 Mr. Scott Twait 7 Water Quality Standards Unit Illinois Environmental Protection Agency 8 1021 North Grand Avenue Springfield, IL 62794 9 (217) 558-2012 scott.twait@illinois.gov 10 11 Ms. Iwona Ward Environmental Protection Engineer 12 Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 13 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702		Environmental Protection Specialist	
4 1021 North Grand Avenue Springfield, IL 62794 (217)785-4787 lynn.dunaway@illinois.gov 6 Mr. Scott Twait 7 Water Quality Standards Unit Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 558-2012 scott.twait@illinois.gov 10 11 Ms. Iwona Ward Environmental Protection Engineer 12 Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 13 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702	3	Groundwater Section, Bureau of Water	
Springfield, IL 62794 (217)785-4787 lynn.dunaway@illinois.gov mr. Scott Twait water Quality Standards Unit Illinois Environmental Protection Agency lo21 North Grand Avenue Springfield, IL 62794 (217) 558-2012 scott.twait@illinois.gov mr. Stwona Ward Environmental Protection Engineer mr. Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency according to the Marion, IL 62959 mr. Gallen 993-7200 iwona.ward@illinois.gov mr. Gallen Bureau of Water Illinois Environmental Protection Agency mr. Dean Studer Hearing Officer/Right-to-Know Coordinator mr. Dean Studer Hearing Environmental Protection Agency mr. Dean Studer Hearing Officer/Right-to-Know Coordinator		Illinois Environmental Protection Agency	
Second	4	1021 North Grand Avenue	
lynn.dunaway@illinois.gov Mr. Scott Twait Water Quality Standards Unit Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 558-2012 scott.twait@illinois.gov Ms. Iwona Ward Environmental Protection Engineer Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 2309 West Main Street, Suite 116 Marion, IL 62959 (618) 993-7200 iwona.ward@illinois.gov Ms. Joanne Olson Technical Advisor, Assistant Counsel Bureau of Water Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov THE HEARING OFFICER: Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702		Springfield, IL 62794	
Mr. Scott Twait Water Quality Standards Unit Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 558-2012 scott.twait@illinois.gov 10 11 Ms. Iwona Ward Environmental Protection Engineer 12 Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 13 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702	5	(217) 785-4787	
Mr. Scott Twait Water Quality Standards Unit Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 558-2012 scott.twait@illinois.gov 10 11 Ms. Iwona Ward Environmental Protection Engineer 12 Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 13 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702		lynn.dunaway@illinois.gov	
Water Quality Standards Unit Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 558-2012 scott.twait@illinois.gov 10 11 Ms. Iwona Ward Environmental Protection Engineer 12 Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 13 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702	6		
Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 558-2012 scott.twait@illinois.gov 10 11 Ms. Iwona Ward Environmental Protection Engineer 12 Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 13 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702			
8 1021 North Grand Avenue Springfield, IL 62794 9 (217) 558-2012 scott.twait@illinois.gov 10 11 Ms. Iwona Ward Environmental Protection Engineer 12 Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 13 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702	7		
Springfield, IL 62794 9 (217) 558-2012 scott.twait@illinois.gov 10 11 Ms. Iwona Ward Environmental Protection Engineer 12 Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 13 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702			
9 (217) 558-2012 scott.twait@illinois.gov 10 11 Ms. Iwona Ward Environmental Protection Engineer 12 Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 13 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702	8		
scott.twait@illinois.gov 10 11			
10 11 Ms. Iwona Ward Environmental Protection Engineer 12 Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 13 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702	9		
Ms. Iwona Ward Environmental Protection Engineer Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 2309 West Main Street, Suite 116 Marion, IL 62959 (618) 993-7200 iwona.ward@illinois.gov Ms. Joanne Olson Technical Advisor, Assistant Counsel Bureau of Water Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 782-5544 joanne.olson@illinois.gov THE HEARING OFFICER: Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702	1.0	scott.twait@illinois.gov	
Environmental Protection Engineer Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 2309 West Main Street, Suite 116 Marion, IL 62959 (618) 993-7200 iwona.ward@illinois.gov Ms. Joanne Olson Technical Advisor, Assistant Counsel Bureau of Water Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62794 (217) 782-5544 joanne.olson@illinois.gov THE HEARING OFFICER: Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702			
Mine Pollution Control Program, Bureau of Water Illinois Environmental Protection Agency 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702	1 1		
Illinois Environmental Protection Agency 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702	1.0		
13 2309 West Main Street, Suite 116 Marion, IL 62959 14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702	12		
Marion, IL 62959 14 (618) 993-7200	1.0		
14 (618) 993-7200 iwona.ward@illinois.gov 15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702	13		
iwona.ward@illinois.gov 15 16 Ms. Joanne Olson	1 /		
15 16 Ms. Joanne Olson Technical Advisor, Assistant Counsel 17 Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702	14		
Technical Advisor, Assistant Counsel Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702	15	Iwona.wardellinois.gov	
Technical Advisor, Assistant Counsel Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702		Ms Joanne Olson	
Bureau of Water Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702			
Illinois Environmental Protection Agency 18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702	17		
18 1021 North Grand Avenue Springfield, IL 62794 19 (217) 782-5544 joanne.olson@illinois.gov 20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702			
19 (217) 782-5544	18		
19 (217) 782-5544		Springfield, IL 62794	
20 21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702	19		
21 THE HEARING OFFICER: 22 Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator 23 Office of Community Relations Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702		joanne.olson@illinois.gov	
Mr. Dean Studer Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702	20	-	
Hearing Officer/Right-to-Know Coordinator Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702	21	THE HEARING OFFICER:	
Office of Community Relations Illinois Environmental Protection Agency 1021 North Grand Avenue Springfield, IL 62702	22	Mr. Dean Studer	
Illinois Environmental Protection Agency 24 1021 North Grand Avenue Springfield, IL 62702		Hearing Officer/Right-to-Know Coordinator	
24 1021 North Grand Avenue Springfield, IL 62702	23	Office of Community Relations	
Springfield, IL 62702		Illinois Environmental Protection Agency	
	24		
L 25 (217) 558-8280			
120 (217, 330 3230	25	(217) 558-8280	

```
Page 5
 1
     APPEARANCES (continued)
 2
        Ms. Barb Lieberoff
 3
        Community Relations Coordinator
        Office of Community Relations
 4
        Illinois Environmental Protection Agency
        1021 North Grand Avenue East
 5
        Springfield, IL 62794
        (217) 524-3038
 6
        barb.lieberoff@illinois.gov
 7
 8
     The Court Reporter:
 9
     Pamela K. Needham, IL CSR, MO CCR
10
    Midwest Litigation Services
     711 North 11th Street
11
     St. Louis, MO 63101
     314-644-2191
12
13
14
15
16
17
18
19
20
21
22
23
24
25
```

		Page 6
1	TRANSCRIPT OF PROCEEDINGS	
2	(On the record at 6:00 p.m.)	
3	HEARING OFFICER STUDER: I've got 6:00	
4	on my watch, so we're going to go ahead and get	
5	started.	
6	Good evening, my name is Dean Studer,	
7	and I'm the hearing officer for the Illinois	
8	Environmental Protection Agency. On behalf of	
9	Director Lisa Bonnett and Bureau of Water Chief	
10	Marcia Willhite, I welcome you to tonight's hearing.	
11	The Illinois EPA believes that the public hearings	
12	that we hold are a crucial part of the permit review	
13	process. My purpose tonight is to ensure that these	
14	proceedings run properly and according to rules. To	
15	that end, I will start by reading this opening	
16	statement into the record.	
17	This is an informational hearing before	
18	the Illinois EPA in the matter of a National	
19	Pollutant Discharge Elimination System, otherwise	
20	known as NPDES, permit for surface activities from	
21	an underground coal mining facility by Peabody	
22	Coulterville Mining, LLC, with proposed discharges	
23	of treated wastewater into unnamed tributaries of	
24	Mary's River, Plum Creek and Lick Branch.	
25	We previously held a hearing on a	

Page 7

- 1 proposed NPDES permit for this facility on June 8th,
- 2 2011. Following that hearing, the applicant revised
- 3 their proposal for this facility and the permit as
- 4 public noticed on January 7th, 2015, is different
- 5 than the draft permit that was the subject of that
- 6 hearing. I also point out that the Illinois EPA has
- 7 further revised this permit to clarify that a liner
- 8 meeting the design permeability of no greater than
- 9 ten to the minus seventh centimeters per second is
- 10 required in Slurry Cell Number 5, regardless of
- 11 whether or not wastewater comes in contact with coal
- 12 refuse.
- 13 Illinois EPA will be addressing the
- 14 issues raised at this hearing and receiving in
- 15 writing before the close of the comment period. If
- 16 you have raised issues in, in or during the 2011
- 17 hearing and desire for those to be part of this
- 18 hearing, it will be necessary for you to raise those
- 19 issues during this proceeding, or to produce the
- 20 physical documents to be included in this
- 21 proceeding. A 401 water quality certification for
- 22 this project was issued on January 5th, 2015.
- 23 Issues relevant to this hearing include
- 24 compliance with the requirements of the Federal
- 25 Clean Water Act, the rules set forth in state

Page 8

- 1 regulations at 35 Illinois Administrative Codes,
- 2 Subtitles C and D, and the anti-degradation
- 3 assessment. The Illinois EPA's made a preliminary
- 4 determination that the project meets the
- 5 requirements for obtaining a permit, and has
- 6 prepared a draft permit for review. I also point
- 7 out that Illinois EPA is not the Agency permitting
- 8 the mining operations. Mining operations are
- 9 regulated by the Illinois Department of Natural
- 10 Resources, Office of Mines and Minerals.
- 11 Illinois EPA is not permitting this
- 12 project, but is the entity responsible for
- 13 regulating the discharge of treated wastewater. In
- 14 short, issues relevant in this proceeding must
- 15 relate to the NPDES permit in some manner, and must
- 16 be under the purview of the Illinois EPA. Illinois
- 17 EPA has no authority to enforce other entities'
- 18 regulations unless the Illinois Environmental
- 19 Protection Act authorizes us to do so.
- 20 The Illinois EPA is holding this hearing
- 21 for the purpose of accepting comments on the draft
- 22 permanent prior to taking final action on the
- 23 application. This public hearing is being held
- 24 under the provisions of the Illinois EPA procedures
- 25 for permit and closure plan hearings, which can be

Page 9

- 1 found in 35 Illinois Administrative Code Part 166,
- 2 Subpart A, and under the Illinois Pollution Control
- 3 Board Regulations of 35 Illinois Administrative Code
- 4 309.115 through 309.119. Copies of these
- 5 regulations are available at the Illinois Pollution
- 6 Control Board website at www.ipcb.state.il.us, or if
- 7 you do not have easy access to the web, you may
- 8 contact me and I will get a copy for you.
- 9 An informational public hearing means
- 10 exactly that. This is strictly an informational
- 11 hearing. It is an opportunity for you to provide
- 12 information to the Illinois EPA concerning the
- 13 permit so that such information can be considered
- 14 when taking final action on this permit application.
- 15 This is not a contested case hearing.
- I'd like to explain how tonight's
- 17 hearing is going to proceed. First, we will have
- 18 the Illinois EPA Panel introduce themselves and
- 19 provide a sentence or two regarding their
- 20 involvement in this permit process. Following these
- 21 instructions, I will provide further instructions as
- 22 to how statement and comments will be taken during
- 23 this hearing and as to appropriate conduct during
- 24 this hearing. I will then allow the public to
- 25 provide comments, starting with Ken Rogers, Director

Page 10

- 1 of Environmental Services-Midwest at Peabody Energy.
- 2 If you have not completed a registration
- 3 card at this point, please see Barb Lieberoff in the
- 4 registration area, and she can provide a card to
- 5 you. You may indicate on this card that you would
- 6 like to make comments tonight. Everyone legibly
- 7 completing a card tonight, or providing written or
- 8 email comments in this proceeding will be notified
- 9 when the Illinois EPA reaches a final decision in
- 10 this matter. A responsiveness summary will be made
- 11 available at that time.
- 12 In the responsiveness summary the
- 13 Illinois EPA will respond to all relevant and
- 14 significant issues that were raised at the hearing
- 15 or submitted to me prior to the close of the comment
- 16 period. The hearing record in this matter will
- 17 close on April 15th, 2015. I will accept written
- 18 comments as long as they are postmarked in
- 19 sufficient time to physically arrive at Illinois EPA
- or are emailed by April 15th, 2015.
- 21 Illinois EPA is committed to resolving
- 22 outstanding issues and reaching a final decision in
- 23 this matter in an expeditious manner. However, the
- 24 actual decision date will depend on the number of
- 25 comments received, the substantive content of those

Page 11

- 1 comments, as well as other factors.
- 2 During this hearing and during the
- 3 comment period, all relevant comments, documents and
- 4 data will be placed into the hearing record as
- 5 exhibits. Please send all written documents or data
- 6 to my attention, and that is Dean Studer, Mail Code
- 7 Number 5, Hearing Officer, regarding Gateway Mine
- 8 NPDES, Illinois EPA, 1021 North Grand Avenue East,
- 9 P.O. Box 19276, Springfield, Illinois, 26794-9276.
- 10 This address is also listed on the public notice for
- 11 the hearing tonight. Please indicate the NPDES
- 12 permit number, or reference Gateway Mine NPDES on
- 13 your comments to help ensure that they become part
- 14 of this hearing record. The NPDES permit number for
- 15 this facility is I-L-0-0-6-2-1-8-9.
- 16 Illinois EPA is also accepting email
- 17 comments in this NPDES proceeding. Emails
- 18 originating on a third party server designed to
- 19 submit comments of the same or nearly the same
- 20 comment from multiple users will not be accepted
- 21 without prior approval of the hearing officer.
- 22 Email comments are to be sent to
- 23 epa.publichearingcom, that's E-P-A dot P-U-B-L-I-C
- 24 H-E-A-R-I-N-G-C-O-M, at Illinois, I-L-L-I-N-O-I-S
- 25 dot G-O-V, and they need to be received before

Page 12

- 1 midnight on April 15th, 2015, and must either
- 2 specify Gateway Mine NPDES, or the NPDES permit
- 3 number, I-L-0-0-6-2-1-8-9, in the subject line.
- 4 Emails are electronically sorted and distributed, so
- 5 please make sure that the words in the subject line
- 6 are spelled correctly. Electronic comments filed
- 7 during normal Agency business hours should get an
- 8 automated reply from the server. I will also
- 9 attempt to send a reply to email comments within a
- 10 few business days indicating the exhibit number
- 11 assigned to the electronic submittal. If you do not
- 12 receive such a reply, you may contact me, and I can
- 13 provide that information to you.
- I would now ask the Illinois EPA panel
- 15 up front with me to introduce themselves, and
- 16 provide a sentence or two as to what their role is
- in the review of this permit application.
- 18 MR. DUNAWAY: My name is Lynn Dunaway,
- 19 and I work in the Groundwater Section the Bureau of
- 20 Water, and I review the groundwater protection
- 21 issues.
- 22 MR. TWAIT: My name is Scott Twait, I
- 23 work for Water Quality Standards. I did the water
- 24 quality memo and the anti-degradation memo.
- MS. WARD: My name is Iwona Ward, and I

Page 13

- 1 work for Mine Pollution Control program, I review
- 2 the application and drafted, prepared the draft
- 3 NPDES permit.
- 4 MS. OLSON: My name is Joanne Olson, I
- 5 work in the Division of Legal Counsel, and I provide
- 6 legal support to the people here today.
- 7 HEARING OFFICER STUDER: Thank you. As
- 8 hearing officer, I intend to treat everyone here
- 9 tonight with respect and in a professional manner.
- 10 I ask the same respect be shown by the hearing panel
- 11 and members of the audience. You may disagree with
- or object to some of the statements and comments
- 13 made, but this is a public hearing, and everyone has
- 14 a right to express their comments on this draft
- 15 permit and the issues related to it. Arguing or
- 16 prolonged dialogue with others will not be permitted
- 17 this evening.
- 18 I remind everyone that we have a court
- 19 reporter here making a verbatim record of tonight's
- 20 hearing. For her sake, and in the interest of
- 21 having an accurate transcript of this hearing, I ask
- 22 that noise levels in the room be kept to a minimum.
- 23 Consequently, applause, booing, hissing, jeering and
- 24 other noises will not be allowed this evening.
- 25 If conduct of person -- of persons

Page 14

- 1 attending this hearing should become unruly, I am
- 2 authorized to adjourn this hearing should the
- 3 actions warrant. In such a case, Illinois EPA would
- 4 accept written comments through the time indicated
- 5 on the notice for this hearing.
- 6 Written comments maybe submitted to
- 7 Illinois EPA at any time within the public comment
- 8 period, which ends on April 15th, 2015. Comments
- 9 submitted by carrier or US Mail need to be sent in
- 10 sufficient time to physically arrive at Illinois EPA
- 11 headquarters in Springfield no later than April
- 12 15th, 2015.
- 13 If you have lengthy oral comments to
- 14 make at this hearing, it will be helpful to submit
- 15 them to me in writing before the close of the
- 16 comment period, and I will ensure that they are
- 17 included in the hearing record as an exhibit. This
- 18 hearing is the only time that Illinois EPA will be
- 19 accepting oral comments.
- 20 Please keep your comments relevant to
- 21 the issues involved with this permit. If your
- 22 comments fall outside the scope of this hearing, I
- 23 may ask you to proceed to your next relevant issue.
- 24 I will initially allow everyone six minutes to make
- 25 comments. After everyone has had an opportunity to

Page 15

- 1 speak, if time permits, I may allow those who
- 2 initially did not desire to speak to do so, and if
- 3 time permits, I may also return to those who ran out
- 4 of time initially.
- 5 Please avoid repetition. If anyone
- 6 before you has already presented a statement or
- 7 comment that is contained in your comments, please
- 8 skip over those when you speak. If someone has
- 9 already said what you intended to say, you may pass
- 10 when I call your name to come forward. Once a point
- 11 is made, it makes no difference if that point is
- 12 made 99 times, it will be considered on its merit
- 13 and be addressed only once in the responsiveness
- 14 summary.
- The issues that are relevant in the
- 16 Illinois EPA final decision are those directly
- 17 related to the contents of the permit and the
- 18 regulations governing the issuance of the comment.
- 19 Simply stating opposition or support for this
- 20 project will not impact the Illinois EPA decision in
- 21 this matter. The decision in this matter will be
- 22 made on whether or not a permit can lawfully be
- 23 issued, and will not be based on the number of
- 24 people that either oppose or support the issuance of
- 25 a permit. If the applicant meets the requirements

Page 16

- 1 for obtaining a permit, Illinois EPA is required by
- 2 law to issue the permit. Illinois EPA has only the
- 3 power given to it by the Illinois Environmental
- 4 Protection Act, and since this is a federal
- 5 permitting action, to a limited extent, by USEPA
- 6 regulations. Illinois EPA decision making is
- 7 limited to those items associated with environmental
- 8 issues and other items as determined by state and
- 9 federal law and under the purview of the Bureau of
- 10 Water of the Illinois EPA. In this case relevant
- 11 issues must relate to the water discharge NPDES
- 12 permit in some way. Please keep this in mind when
- 13 speaking this evening, as well as when filing
- 14 written comments on this NPDES permit.
- When it is your turn to speak, I will
- 16 call your name. Please come forward. I will then
- 17 call a second name, and that person will be allowed
- 18 to speak following the comments from the current
- 19 person speaking. When I first call your name, if
- 20 you do not desire to speak, or if someone has
- 21 already said what you intended to say, you may pass,
- 22 and I will announce another name. When the person
- 23 speaking has completed their comments, the next
- 24 person should come forward, and I will announce the
- 25 name of the next person to speak following the

Page 17 current speaker. 1 2 When speaking, please speak clearly and 3 into the microphone. State your name, and if applicable, any governmental body, organization, or 4 5 association that you represent. If you are not representing a governmental body, an organization or 6 7 an association, you may simply indicate that you are a concerned citizen or a member of the public. For 8 the benefit of the court reporter, I ask that you spell your last name. If there are alternate 10 11 spellings for your first name, you may also spell 12 that will if you desire. Comments are to be 13 directed to members of the hearing panel. This will help to ensure that an accurate transcription of 14 your comments is made. Prolonged dialogue with the 15 hearing panel or with others in attendance will not 16 17 allowed. 18 Are there any questions regarding the procedures that will be used for conducting this 19 20 hearing? 21 (No response.) Okay, let the record indicate that no 22 one raised their hand. 23 24 The first person that will be speaking 25 tonight is Ken Rogers. And if you would come

Page 18

- 1 forward, and he'll be followed by Marjorie Wayland.
- 2 MS. MARJORIE WAYLAND: May I hold my
- 3 comments until later, please?
- 4 HEARING OFFICER STUDER: Okay,
- 5 following -- Marjorie passed? Okay.
- 6 Mike Fullerton would be the person
- 7 speaking after, after Mr. Rogers.
- 8 MR. MIKE FULLERTON: I'll pass till
- 9 later.
- 10 HEARING OFFICER STUDER: Okay, I'll
- 11 announce another name shortly. Go ahead.
- MR. KEN ROGERS: Okay. I'm Ken Rogers,
- 13 Director of Environmental Services, Peabody Energy.
- 14 R-O-G-E-R-S is my last name.
- 15 HEARING OFFICER STUDER: Okay, go ahead
- 16 and if you would try to speak into the mike, just
- 17 because your back is to people, and I want to make
- 18 sure they can all hear you.
- 19 MR. KEN ROGERS: Okay. Peabody
- 20 Coulterville Mining is committed to conducting its
- 21 Gateway mining operation in a responsible, ethical
- 22 manner that protects the environment and restores
- 23 the land, using the best management practices. We
- 24 are further committed to continuous improvement
- 25 efforts in all aspects of our operation, including

Page 19

- 1 environmental stewardship. We will utilize our well
- 2 trained staff and resources to comply with all
- 3 permit requirements.
- 4 The Gateway Mine currently has been in
- 5 operation for four decades. Peabody acquired the
- 6 mine in 2005 and has operated the mine during the
- 7 past ten years. During this time, Peabody has made
- 8 significant investments to improve different aspects
- 9 of the mine, and we will make additional
- 10 improvements following approval of this permit
- 11 renewal. Currently Peabody employs 236 full-time
- 12 workers at Gateway Mine. The annual payroll, wages
- 13 and benefits, is approximately \$29 million. The
- 14 mine facility has provided and continues to provide
- 15 employees and their families with good income,
- 16 health care, and many other benefits. The NPDES
- 17 permit is essential to the continued operation of
- 18 Gateway Mine, and for the employment of our 236
- 19 employees. We look forward to resolving any
- 20 remaining issues regarding this modified permit and
- 21 renewal that will allow receiving the appropriate
- 22 approval as soon as possible. Thank you.
- 23 HEARING OFFICER STUDER: Thank you,
- 24 Mr. Rogers. Lance Barnes.
- MR. LANCE BARNES: I'll pass till later.

Page 20 HEARING OFFICER STUDER: Caleb, is it 1 2 Bosher? 3 MR. CALEB BOSHER: I'll pass. HEARING OFFICER STUDER: Pass? Okay. 4 5 Tyler Rotche? 6 MR. TYLER ROTCHE: Good evening. Thank 7 you for the opportunity to provide comments. My name is Tyler Rotche, it's T-Y-L-E-R, last name is 8 R-O-T-C-H-E, Water Policy Specialist at Prairie Rivers Network. 10 11 Thank you for the opportunity to provide 12 comments tonight regarding the draft renewed and modified NPDES permit for the Gateway Mines 13 discharges to the fresh water lake and tributaries 14 15 of the Mary's River, Plum Creek, and the Lick Branch in Randolph County. Prairie Rivers Network is a 16 17 state affiliate of the National Wildlife Federation, a nonprofit organization that strives to protect the 18 rivers, streams and lakes of Illinois, and to 19 promote the lasting health and beauty of watershed 20 21 communities. Prairie Rivers Network has members that live and recreate in the Mary's River watershed 22 and stand to be adversely affected should discharges 23 24 under this permit impair or degrade the water -- the quality of waters in the area, so I have a few 25

Page 21

- 1 questions. The first deal with NPDES compliance.
- 2 So in the last 12 quarters, the operator
- 3 has been in noncompliance for four of those quarters
- 4 per the ECHO Database, and this includes several
- 5 exceedances for the limits set for total iron from
- 6 Outfall 8. I'm wondering how these issues have been
- 7 resolved.
- 8 HEARING OFFICER STUDER: Do you know if
- 9 they've been resolved?
- 10 MS. WARD: It's under investigation. We
- 11 are investigating this. This being in the process
- 12 in an investigation right now. We are checking all
- 13 of our data.
- 14 MR. TYLER ROTCHE: What -- can you
- 15 describe a little bit what the investigation
- 16 entails?
- 17 MS. WARD: Well, we are reviewing all
- 18 the DMR's, and actually the people from our
- 19 Compliance Assurance section are doing this, so
- 20 nobody is here today from our Compliance Assurance
- 21 section. We will check with them and give you
- 22 responses in responsiveness summary, okay?
- MR. TYLER ROTCHE: Okay, thank you.
- 24 HEARING OFFICER STUDER: Tyler, did you
- 25 say that was from the ECHO Database?

Page 22

- 1 MR. TYLER ROTCHE: Yeah.
- 2 HEARING OFFICER STUDER: Okay. So that
- 3 may or may not reflect what's actually in the
- 4 permit; we have had issues with that information not
- 5 necessarily being accurate, and that's one of the
- 6 issues that Compliance Assurance has to check on.
- 7 MR. TYLER ROTCHE: Okay. My second
- 8 question is in the operator's most recent permit
- 9 through the Department of Natural Resources, Office
- 10 of Mines and Minerals, several violations are
- 11 listed; most notably, an incident occurring on the
- 12 areas of Permit 53 and Permit 160, wherein the
- 13 operator failed to allow the approved plan for coal
- 14 waste disposal by allowing a large volume of decant
- 15 water to leave the permit area at Outfall 8,
- 16 apparently the result of placing a siphon in the
- 17 energy spillway of Cell Number 4. The remedial
- 18 action for this event was, one, to contain and
- 19 remove sediments, and two, to submit a plan for
- 20 remediation, and that notice of violation is active
- 21 as of June 2nd, 2014.
- 22 And I also notice that the operator has
- 23 been faced with several NPDES violations, including
- 24 an effluent violation for unauthorized discharge,
- 25 and a reporting violation for failure to notify

Page 23

- 1 occurring May 25th, 2014.
- 2 So my first question is are these
- 3 violations describing the same incident?
- 4 MS. OLSON: I don't know if we can
- 5 answer that. I don't know if we know -- I don't
- 6 know if we have a copy of the IDNR violations that
- 7 you speak of.
- 8 MR. TYLER ROTCHE: Could you, could you
- 9 describe the NPDES violation and what occurred?
- 10 MS. WARD: We cannot actually get into
- 11 the specific details right now, because it's in the
- 12 process of the evaluation. We send the NLV, and we
- 13 are pursuing with that right now.
- MR. TYLER ROTCHE: Are there any details
- 15 you can provide about the, the violation?
- MS. OLSON: Do you have the violation
- 17 notice?
- MR. TYLER ROTCHE: I have the, the
- 19 numbers. But I don't have a copy of the notice.
- 20 HEARING OFFICER STUDER: You'll have to
- 21 submit those to us in writing, I'm not going to go
- 22 through multiple violations that you've alleged and
- 23 comment on the record without seeing them directly
- 24 in front of me.
- MR. TYLER ROTCHE: Sure.

Page 24

- 1 HEARING OFFICER STUDER: And I don't
- 2 think anyone on the panel is going to be able to do
- 3 that without seeing those. This is not something
- 4 that we can do orally in an atmosphere or in a
- 5 hearing environment without seeing them in front of
- 6 us.
- 7 MR. TYLER ROTCHE: Even for the NPDES
- 8 violations?
- 9 HEARING OFFICER STUDER: That's correct,
- 10 we're going to need to know the dates, and we're
- 11 going to need to know additional information,
- 12 because just because you've said it and just
- 13 because -- I'm assuming again this came out of ECHO?
- MR. TYLER ROTCHE: Yeah.
- 15 HEARING OFFICER STUDER: Yeah. We've
- 16 had issues with that, and we've got to ensure that
- 17 the official record in there which is the actual,
- 18 what was submitted is correct.
- 19 The problem with a lot of this
- 20 information is is that it comes in in hard copy, and
- 21 then it's put into electronic copy, but the official
- 22 record is what came in in hard copy, and if there's
- 23 discrepancies between the two, the official record
- 24 is which -- is what governs. So that's, that's been
- 25 a huge issue with ECHO in the past, and we have to

Page 25

- 1 ensure that this is correct.
- 2 MR. TYLER ROTCHE: Okay. But just to
- 3 clarify, it sounds, from Ms. Ward's statement, that
- 4 there are some violations notice that were issued
- 5 and that the Agency is aware of?
- 6 MS. OLSON: Yes, the Agency has issued a
- 7 violation notice, and that matter is still under
- 8 enforcement, so we're not going to talk about that
- 9 today.
- 10 MR. TYLER ROTCHE: Okay. That's
- 11 understandable.
- 12 My second set of questions deals with
- 13 ongoing water pollution at this site, which was
- 14 documented in several monitoring wells in 2011, and
- 15 I'm wondering if I could get some information on
- 16 what the current state of groundwater pollution is
- 17 at this site.
- 18 MR. DUNAWAY: I reviewed the data
- 19 available in the Mines and Minerals database, and
- 20 based on that information, I looked at monitoring
- 21 results when specific wells started to be monitored,
- 22 and what they were, the most recent values were, and
- 23 there are values that exceed ground water quality
- 24 standards; however, depending on the well, many of
- 25 those have gone down in certain parameters, other

Page 26

- 1 parameters have come up. And one thing I've done,
- 2 or one thing I want to have done assuming this
- 3 permit is approved, is have a background well
- 4 installed so that I can better assess whether or
- 5 not, because of the variability that I see in the
- 6 other monitoring wells, to assess whether or not
- 7 those are naturally occurring concentrations, or
- 8 whether there are, in fact, impacts from the waste
- 9 disposal units.
- 10 MR. TYLER ROTCHE: Would that be made a
- 11 condition of this permit in that case?
- MR. DUNAWAY: I believe it's in the, it
- is a condition in this permit.
- MR. TYLER ROTCHE: Okay. So I also
- 15 noticed that the Class 4 groundwater standards state
- 16 that the source of any release of contaminants to
- 17 groundwater has been controlled, and that's dealing
- 18 with groundwater under a coal refuse disposal area;
- 19 and given that the contaminants haven't been
- 20 controlled in this instance and there's ongoing
- 21 groundwater pollution, I'm wondering why the
- 22 operator isn't bound to another standard like Class
- 23 2 standards.
- MR. DUNAWAY: Well, actually, the --
- 25 those Class 4 definitions, the, the applicable

Page 27

- 1 standard beneath the refuse disposal area will
- 2 depend on when the refuse disposal area was
- 3 constructed, when it started operation, whether it
- 4 discontinued operation or ceased, but the, the real
- 5 meat of the issue is that where those monitoring
- 6 wells are located, we don't believe that's Class 4,
- 7 we do believe that it would be Class 2, or in some
- 8 instances I have seen a, at least one of the wells
- 9 has a, a slug test that was done to test the
- 10 permeability, and it actually falls into the
- 11 covering a Class 1 groundwater in the vicinity of
- 12 that well.
- MR. TYLER ROTCHE: Do you know which
- 14 well that would be offhand?
- MR. DUNAWAY: Well, Number 8.
- 16 MR. TYLER ROTCHE: Another concern that
- 17 I was wondering that you might be able to help me
- 18 address is the impoundment location and the
- 19 discharge in, from RDA five into streams that might
- 20 lack mixing potential, and I'm wondering if the
- 21 Agency has considered how the operator will meet
- 22 water quality standards when limited flow for mixing
- 23 is available.
- 24 MR. TWAIT: I don't -- I don't believe
- 25 that we've considered any mixing for the permit

Page 28

- 1 limits that have come out. I'd have to, I'd have to
- 2 doublecheck that, which would be in the
- 3 responsiveness summary, but I don't think we've used
- 4 mixing for, for the permit limits.
- 5 MS. WARD: We didn't.
- 6 HEARING OFFICER STUDER: We've also gone
- 7 over the time limit. How many more questions do you
- 8 have, Tyler?
- 9 MR. TYLER ROTCHE: I have a few more,
- 10 but if I could save them, if I could come back again
- 11 at the end, would that be possible?
- 12 HEARING OFFICER STUDER: Yeah.
- MR. TYLER ROTCHE: Okay.
- 14 HEARING OFFICER STUDER: Thank you.
- MR. TYLER ROTCHE: Thank you.
- 16 HEARING OFFICER STUDER: Yeah. And I'll
- 17 keep your card up here.
- 18 MR. TYLER ROTCHE: Thank you.
- 19 HEARING OFFICER STUDER: Andrew Rain.
- MR. ANDREW RAIN: Pass.
- 21 HEARING OFFICER STUDER: Pass, okay.
- 22 Cindy Skrukrud.
- MS. CINDY SKRUKRUD: Good evening. My
- 24 name is Cindy Skrukrud, C-I-N-D-Y, last name spelled
- 25 S, like Sam, K-R-U-K-R-U-D. I'm the Clean Water

Page 29

- 1 Advocate for the Illinois Chapter of the Sierra
- 2 Club, and so I'm here on behalf of our members who
- 3 are anxious to have clean groundwater and clean
- 4 water in streams like Mary's River, Plum Creek, and
- 5 Lick Branch. So I have a number of questions also
- 6 about the draft permit.
- 7 First, though, I had a procedural
- 8 question. So this -- we've got a very short 15-day
- 9 post-hearing comment period. I wondered will the
- 10 transcript be available during that time period?
- 11 HEARING OFFICER STUDER: We've made
- 12 arrangements for an expedited transcript. I am
- 13 planning on having the transcript posted on the
- 14 website next week.
- 15 MS. CINDY SKRUKRUD: Okay. Great, thank
- 16 you so much. And then, and then I've got some
- 17 questions that kind of hearken back to our hearing
- 18 that we had on this permit in, in 2001. And first I
- 19 had a question, so when you look back and you see
- 20 this mine is operating on -- still operating on a
- 21 permit that expired in 2000. So that's 15 years
- 22 ago. And then we had a hearing in 2011, and still
- 23 then we didn't see a permit. So I was, just
- 24 wondered, can you explain why it's taken so -- well,
- 25 why it's taking so long to get a reissued permit for

Page 30

- 1 this mine while we know, everyone in this room knows
- 2 that there's been many changes that have occurred at
- 3 the mine in that time period.
- 4 MS. WARD: One of the reasons that we
- 5 did not proceed with the issuing the permit after
- 6 the hearing in 2011 was that environmental groups
- 7 like always the public was concerned about company
- 8 using the fresh water lake as a treatment facility.
- 9 Well, the company decide to resolve this problem
- 10 before the permit was actually issued, and they
- 11 build extra sedimentation basin next to the West
- 12 Basin that was already constructed with a discharge
- 13 008. And the discharge 008 was not going to the
- 14 fresh water lake. Well, first of all, was proposed
- 15 to go to the fresh water lake --
- MS. CINDY SKRUKRUD: Right.
- 17 MS. WARD: -- and then the discharge
- 18 structure 009 supposed to be out of the fresh water
- 19 lake. As of right now, company proposed a West
- 20 Basin that will actually suspend the sedimentation
- 21 treatment, and sedimentation -- sedimentation
- 22 storage and the treatment for the treating water,
- 23 and that actually the 009 discharge will go straight
- 24 from the West Pond, which they will have to meet
- 25 water quality standards at the discharge pond 009

Page 31

- 1 before they go to the fresh water lake. So the
- 2 fresh water lake will be actually a receiving
- 3 stream, receiving lake.
- 4 MS. CINDY SKRUKRUD: Okay. This is --
- 5 yeah, this is all very complicated, and I think
- 6 we -- and I know we, that's what we thought we were
- 7 seeing from the permit, so I may have some more
- 8 questions about that later, but I appreciate that.
- 9 So, but just to clarify, so 009 will go to the fresh
- 10 water lake, that --
- MS. WARD: Yes, out of the West Pond.
- 12 MS. CINDY SKRUKRUD: Out of the West
- 13 Ponds. And there was -- West Ponds, and there was
- 14 something in here about -- maybe it's another name.
- MS. WARD: Harp Pond?
- 16 MS. CINDY SKRUKRUD: Yes. Harp Pond.
- MS. WARD: Mm-hmm.
- MS. CINDY SKRUKRUD: So those are new
- 19 ponds that have been built.
- 20 MS. WARD: Well, West Pond or Harp Pond
- 21 is the same pond.
- MS. CINDY SKRUKRUD: Okay.
- MS. WARD: East Pond is the new basin
- 24 that is constructed on the east side of the West
- 25 Basin.

Page 32

- 1 MS. CINDY SKRUKRUD: Okay. And those
- 2 were constructed to provide additional areas for
- 3 sedimentation?
- 4 MS. WARD: Well, they have been
- 5 constructed for actually improve the treatment, and
- 6 also improve the, the site for the sediment.
- 7 MS. CINDY SKRUKRUD: Okay. Okay,
- 8 thanks, that, I think that answered some of my
- 9 questions that are, that I had for later.
- 10 Then I just, I wanted to follow-up, this
- 11 is a question for Lynn, and thank you for your
- 12 answers that you, that you gave Tyler about
- 13 groundwater monitoring, but I looked at the
- 14 transcript from 2011 and Bill Busher was here
- 15 instead of you, and he, one of the things he talked
- 16 specifically about was high levels of contaminants
- 17 in monitoring well and monitoring -- Monitoring Well
- 18 4 and Monitoring Well 9, and at that time he said
- 19 those were under review, and so I just wondered if
- 20 you could give a -- you talked about some other
- 21 monitoring wells, but I wondered if you could talk
- 22 specifically about those.
- MR. DUNAWAY: Well, I, I can't
- 24 necessarily address what Bill was speaking about,
- 25 but on, based on my review today, looking at that

Page 33

- 1 data to be sure it was current, the concentrations
- 2 of contaminants in Monitoring Well 4 have generally
- 3 gone down, though some went up, and in Monitoring
- 4 Well 9, they have increased over the time from, from
- 5 when the well went into service from now, but I
- 6 didn't look relative to 2011, so I really can't
- 7 address that.
- 8 MS. CINDY SKRUKRUD: And then had you
- 9 made any determination whether those contaminants
- 10 were -- I'm quoting you all, you now -- naturally,
- 11 quote/unquote, naturally occurring, or mine
- 12 pollutant, related to mine pollution?
- MR. DUNAWAY: No, we've not made a
- 14 determination on that, which, as I mentioned to
- 15 Tyler, hopefully that background well that is a
- 16 condition of this permit would help with that.
- 17 MS. CINDY SKRUKRUD: Okay, thank you.
- 18 Okay, then I think I, then I -- then I, basically my
- 19 questions now are related -- are, will come off of
- 20 the, the notice and fact sheet. And so on the first
- 21 page of the, of the fact sheet it says: Various
- 22 modifications or additions to surface facilities,
- 23 including additional coal stockpile and coal
- load-out are, are part of the modifications in, in
- 25 the permit.

Page 34

- 1 And so certainly one of the changes
- 2 that's occurred over the 15 years that this permit's
- 3 been out there is we now have the North Gateway Mine
- 4 operating, so my question is has that additional
- 5 coal coming into this site been factored into this
- 6 latest draft of the permit, and did that require
- 7 anti-degradation analysis?
- 8 MR. TWAIT: It was, it was my
- 9 understanding that the coal production hasn't
- 10 increased, it's just coming from the North Gate
- 11 Mine.
- MS. CINDY SKRUKRUD: And so that --
- 13 MR. TWAIT: And so that wouldn't require
- 14 an anti-degradation assessment on, on where the coal
- 15 came from.
- 16 MS. CINDY SKRUKRUD: Okay. Thank you.
- 17 And then I think my next set of questions then are
- 18 on the anti-degradation assessment.
- 19 HEARING OFFICER STUDER: Cindy, how many
- 20 more questions do you have roughly?
- 21 MS. CINDY SKRUKRUD: Oh, I have quite a
- 22 few. So I can, I'm willing to come back if you want
- 23 me to just come back.
- 24 HEARING OFFICER STUDER: Okay. Yeah,
- 25 we've got, we've got just a couple more people, and

Page 35 I want to give them an opportunity, and we'll, we'll 2 come back. 3 MS. CINDY SKRUKRUD: Okay, great. HEARING OFFICER STUDER: Because there's 4 5 you, and I believe Tyler had also had additional 6 questions, so --7 MS. CINDY SKRUKRUD: Okay. HEARING OFFICER STUDER: And I'm sure 8 we'll have time tonight to --10 MS. CINDY SKRUKRUD: Okay. Thank you. Thanks for your answers. 11 12 HEARING OFFICER STUDER: Marlin Wilson. 13 MR. MARLIN WILSON: Pass. 14 HEARING OFFICER STUDER: Pass, okay. 15 Suzanne, is it Novaselack? 16 MS. SUZANNE NOVASELAC: It's Novaselac, 17 and I'll pass. 18 HEARING OFFICER STUDER: Okay, pass, 19 okay. 20 We're back to -- is there anyone in the 21 room that has not made a comment this evening that is registered and would like to make a comment on 22 the record tonight before I go back to those that 23 had previously spoken? Okay. 24 25 MS. MARJORIE WAYLAND: May I now?

Page 36

- 1 HEARING OFFICER STUDER: Yeah, if you'd
- 2 come forward to the microphone and state your name,
- 3 and spell your last name for us, please.
- 4 MS. MARJORIE WAYLAND: Marjorie Wayland,
- 5 M-A-R-J-O-R-I-E. W-A-Y-L-A-N-D.
- 6 Randolph County. 296,604,664 tons.
- 7 Perry County. 554,379,228 tons. Washington County.
- 8 67,359,863 tons. St. Clair County. 367,370,806
- 9 tons. 1,285,714,561 tons of reported commercially
- 10 mined coal since 1882 in four counties up to 2013.
- 11 These numbers do not include the tons mined for the
- 12 50 years before reporting began, the family mined
- 13 coal, and other under-reported coal tonnage.
- 14 1,285,714,561 tons of mined coal just in our four
- 15 immediate counties.
- 16 Coal was commercially mined in our
- 17 counties nearly 150 years before the EPA, SMCRA, and
- 18 Prairie Rivers. We're established, and coal mining
- 19 continues almost 50 years after.
- 20 HEARING OFFICER STUDER: Okay, let's
- 21 keep our comments away from personal comments
- 22 directed at organizations or other people, please.
- MS. MARJORIE WAYLAND: Okay. I'm sorry.
- 24 HEARING OFFICER STUDER: That's okay;
- 25 continue.

	Page 37
1	MS. MARJORIE WAYLAND: Are government
2	agencies? I will mention government
3	HEARING OFFICER STUDER: You can
4	MS. MARJORIE WAYLAND: Okay.
5	HEARING OFFICER STUDER: we're used
6	to being yelled at, so
7	MS. MARJORIE WAYLAND: I'm sorry.
8	HEARING OFFICER STUDER: We're we
9	don't have a problem being yelled at, I mean
10	MS. MARJORIE WAYLAND: Look around us.
11	Our homes and families, our fields and communities.
12	Just what are the effects of the 180 plus years of
13	coal mining in our communities? Where producing
14	coal mines and preparation plants once stood, our
15	high yield farm fields, pastures, successful
16	industrial and agribusinesses, research centers,
17	high end subdivisions, and single family homes.
18	Hunting clubs, parks, and recreational complexes.
19	We hunt, fish, garden, farm, play, study, live, eat,
20	sleep, work, shop, worship, raise our families, in
21	the shadows and the practices of past and present
22	coal mines and mining. Coal is Southern Illinois'
23	natural resource. A resource like every other
24	resource that cannot be defined by cookie cutter
25	designs. The Environmental Protection Agency,

Page 38

- 1 Illinois Department of Natural Resources, Mine
- 2 Safety and Health Administration, Army Corps of
- 3 Engineers, and a litany of coal -- local, state and
- 4 federal agencies, work with all who farm and mine
- 5 our natural resource. A drive, a hike, a ride, a
- 6 float in Southern Illinois confirms successful
- 7 productive mining and a good quality of life can
- 8 co-exist in the past, today, and well into the
- 9 future. To quote -- may I quote? Is that okay?
- To quote Gil Gutknecht, that's
- 11 G-U-T-N-E-C-H-T: Those who say it can't be done
- 12 should get out of the way of those that are already
- 13 doing it. This can be done, and it would make a
- 14 huge difference, unquote. Thank you.
- 15 HEARING OFFICER STUDER: Thank you. Is
- 16 there anything else that has not spoken this evening
- 17 that would like to make a comment on the record?
- 18 (No response.)
- 19 HEARING OFFICER STUDER: Tyler?
- 20 MR. TYLER ROTCHE: Thank you. So next
- 21 set deals with wetlands. So in the permit submitted
- 22 to the Department of Natural Resources, Number 426,
- 23 several zones are designated as wetlands on that
- 24 facility, and I'm wondering if this determination of
- 25 wetlands which could indicate the presence of a

Page 39

- 1 higher water table, I'm wondering how that's been
- 2 taken into account by IEPA? As relates to, to
- 3 Number 5.
- 4 MR. TWAIT: I don't, I don't know if
- 5 we've evaluated that. Not all wetlands indicate a
- 6 high groundwater, but we can answer that in the
- 7 responsiveness summary.
- 8 MR. TYLER ROTCHE: Thank you. So while
- 9 the new permit 426 is not covered by IEPA Subtitle D
- 10 permits, portions of the existing Gateway Mine have
- 11 in the past been granted approval for the disposal
- 12 of coal combustion waste from Anheuser Busch, the
- 13 University of Illinois, and SIU Carbondale, and the
- 14 NPDES permit references the approval of Subtitle D
- 15 Permit Number 2008-MW-0146, as well as the
- 16 corresponding IEPA Log Number 0146-08 describing
- 17 disposal practices. And that permit was issued on
- 18 June 27th, 2008, and expired on May 31st, 2013, and
- 19 I'm wondering if coal ash disposal is still
- 20 permitted on this facility.
- 21 MS. WARD: Yes, it is. Some of those
- 22 permits, state permits are incorporated in the
- 23 previous permit, some of them are standing outside
- 24 of the NPDES permit, so I wanted to doublecheck
- 25 this, and I will get back to you in the

Page 40

- 1 responsiveness summary.
- MR. TYLER ROTCHE: Okay, thank you. And
- 3 I'm also wondering if you could tell me how much
- 4 coal ash rough -- roughly is taken on at this site,
- 5 the process by which its characterized, and where
- 6 it's coming from.
- 7 MS. WARD: I don't have exact numbers
- 8 right now with me. Again, I will have to just
- 9 doublecheck the numbers and provide for you.
- 10 MR. TYLER ROTCHE: Okay. Could you,
- 11 could you talk about the process of how it's
- 12 characterized for disposal on this site?
- MS. WARD: The CCW is disposed on the
- 14 Cell Number 2 and Cell Number 3, but again, we have
- own analysis, our analysis, and we are reviewing
- 16 those analysis in the office, so I can provide you
- 17 with detail informations about it in responsiveness
- 18 summary.
- MR. TYLER ROTCHE: Thank you. I also
- 20 notice in the NPDES permit the mention of TCLP, the
- 21 toxicity characteristic leaching procedure, and I'm
- 22 wondering if you know if that's still how the waste
- 23 is characterized, or if EPA's newer leaching
- 24 environmental assessment framework is utilized.
- MS. WARD: We receive those analysis

Page 41

- 1 through our office, in our office, and we reviewing
- 2 them. So I don't know if you need information about
- 3 those analysis, we can provide it for you.
- 4 MR. TYLER ROTCHE: Okay. My next set of
- 5 questions deals with sewage sludge being taken on at
- 6 this site. So the permit will authorize the use of
- 7 lime sludge, utilization for neutralization on the
- 8 refuse area, and in taking on coal combustion waste,
- 9 sewage sludge and lime sludge, the permit is
- 10 displaying some similarities to the Alpena Vision
- 11 Resources Murdock Mine site, wherein similar
- 12 resources were disposed, and the result there was
- 13 thick clumps of sludge material in adjacent streams,
- 14 as well as thick gross of -- thick growths of algae
- 15 and fungus, and monitoring of streams adjacent to
- 16 the site found high concentrations of sulfates,
- 17 boron, iron, manganese, arsenic and nutrients, and
- 18 I'm wondering if the Department -- sorry, if the
- 19 Agency has reviewed the potential impact of storing
- 20 these materials together and if there are any
- 21 concerns that arise from the mixing of these.
- MS. WARD: Yes; lime sludge is not the
- 23 sewer sludge. Lime sludge is a different material.
- 24 And the, again, the company is allowed to bring only
- 25 to the site the number, but I will have to look at

Page 42

- 1 exactly what tonnage, from specific treatment
- 2 facilities. And again, if you need to -- we also
- 3 receive all the analysis of the material that is
- 4 brought to the site. If you would like to see the
- 5 analysis, we could provide it for you.
- 6 MR. TYLER ROTCHE: Sure. So sewage
- 7 sludge is not being taken on at this site?
- 8 MS. WARD: No; the lime sludge.
- 9 MR. TYLER ROTCHE: Okay.
- 10 MS. WARD: I'm sorry, I misspoke.
- 11 MR. TWAIT: Yeah. Sewage sludge is used
- 12 as a soil amendment, at, at this facility.
- 13 MR. TYLER ROTCHE: Okay. So at the
- 14 Murdock site a number of residents complained
- 15 somewhat frequently about foul odors as a result of
- 16 the sewage sludge being taken on, and I'm wondering
- 17 if there's -- if you could answer if there's any
- 18 sort of classification, if it's Class A or Class B,
- 19 or something with moisture content.
- MR. TWAIT: I, I wouldn't know at this
- 21 time. But we can, we can follow-up with that in the
- 22 responsiveness summary.
- MR. TYLER ROTCHE: Thank you. And I'm
- 24 wondering just for sort of a broader overview if you
- 25 could describe the process of reclamation at RDA2?

Page 43

- 1 How that happens generally, and what materials are
- 2 utilized in that process, and maybe, maybe the time
- 3 scale, as well.
- 4 MS. WARD: This will be, probably be
- 5 better if we can provide it in the responsiveness
- 6 summary.
- 7 MR. TYLER ROTCHE: Sure.
- 8 MS. WARD: It's what they call time.
- 9 MR. TYLER ROTCHE: Yeah. I have a
- 10 question about fugitive dust. So in condition
- 11 Number 14C within the Construction Authorization
- 12 Number 8161-00, it states that: Fugitive dust from
- 13 the coal combustion waste material should not leave
- 14 the disposal area. Timely covering incorporation
- and wetting shall be utilized as necessary to
- 16 protect exposed surfaces from wind erosion.
- 17 And I know that there have been a number
- 18 of concerns in the past about dust from this site,
- 19 and if the Agency has documented any instances of
- 20 waste material leaving the permit area, or if there
- 21 are any provisions for addressing those concerns
- 22 moving forward.
- MS. WARD: I don't have any inspection
- 24 reports with me, but I can look into them and
- 25 provide you information. But comparing normally to,

Page 44

- 1 for the dust control, they use the water trucks,
- 2 they try to keep the dust -- they try to control the
- 3 dust, but I don't remember ever receiving any calls
- 4 from the local people or anybody complaining about
- 5 the dust at this mine. Not at this moment. I will
- 6 have to doublecheck.
- 7 MR. TYLER ROTCHE: Sure. Who, who would
- 8 those calls be directed to, for future reference?
- 9 MS. WARD: They will be directed to the
- 10 office, to our Mine Office in Marion.
- MR. TYLER ROTCHE: Okay.
- 12 HEARING OFFICER STUDER: We can also
- 13 receive complaints virtually at multiple places in
- 14 our, in our agency, so... One thing that might be
- 15 helpful is you had made indications that there had
- 16 been, you know, concerns in the past. If you can
- 17 raise those in writing in the post-hearing comments,
- 18 that would be helpful, if you have specific ones
- 19 that you want to address.
- MR. TYLER ROTCHE: Okay. Thank you.
- 21 And then last, last question deals with the
- 22 alternatives assessment. So the permit states that
- 23 alternatives to this system of prevention and
- 24 treatment of pollutants have been evaluated by the
- 25 mine company in a document dated March 28th, 2012,

Page 45

- 1 entitled: Peabody Coulterville Mining, LLC, Gateway
- 2 Mine Revised Anti-degradation Analyses of Benefits
- 3 and Alternatives to Lessen Water Quality Impact.
- 4 So my question is are additional
- 5 pollutants in waste streams like the sewage sludge
- 6 and the potential for additional pumping and some of
- 7 the other waste being taken and considered in this
- 8 context, given that the document's from 2012, and is
- 9 that sufficient for this permit?
- MR. TWAIT: Well, the, the document was
- 11 looking at other ways to treat the storm water and
- 12 wastewater that was coming off the coal mined area,
- or the impacted area, and we've accepted the 2012
- 14 anti-degradation assessment that they've done. We
- 15 think that's sufficient.
- 16 MR. TYLER ROTCHE: So that there aren't
- 17 substantial differences.
- 18 MR. TWAIT: Not that I know of.
- MR. TYLER ROTCHE: Okay. Well, that,
- 20 that's all the questions I have, so thank you again
- 21 for your time and your review of this permit.
- 22 HEARING OFFICER STUDER: Thank you,
- 23 Tyler. Cindy Skrukrud.
- MS. CINDY SKRUKRUD: So I think my
- 25 questions -- I have some questions now about the

Page 46

- 1 anti-degradation assessment, and then some questions
- 2 about the draft permit.
- 3 So on the, Page 15 of the Public Notice
- 4 Fact Sheet, there is a discussion, and this was,
- 5 this was the discussion -- we discussed this bid
- 6 about, bid already about improving solids treatment
- 7 of the flow through Outfalls 8 and 9, and that's in
- 8 like the first full paragraph. And so -- and
- 9 there's a statement there that: The loading of
- 10 manganese to Outfall 8 and 9 will not be increased,
- 11 since the solids treatment will be improved over the
- 12 existing discharge.
- I want to note that we have streams --
- 14 receiving waters that are listed as impaired for
- 15 manganese, so I would -- I'd appreciate it if you
- 16 could explain for me in a little more detail how
- 17 these basins will be used to reduce manganese
- 18 discharges.
- MR. TWAIT: Well, Outfall, Outfall 008
- 20 was a, went through, I don't necessarily know that
- 21 it was called a pond, but it's, it was vegetated,
- 22 and it might have been like a long narrow pond that
- 23 didn't have enough residence time, and that's why
- 24 the facility came forward and, and said that they
- 25 wanted to use the fresh water lake as their

Page 47

- 1 treatment, because this Outfall 008 was not
- 2 sufficient to take out the sediments. The -- after
- 3 the, the public hearing last time, they came back
- 4 and said we're not going to use the fresh water
- 5 lake, we're going to make... dig some actual ponds,
- 6 and those ponds are sufficient to allow the, the
- 7 sediments to drop out, and as the sediments drop
- 8 out, the, the manganese will, is attached to those
- 9 sediments and will be reduced.
- 10 MS. CINDY SKRUKRUD: Okay, thank you.
- 11 In the, the next paragraph of the anti-degradation
- 12 assessment talks about the new refuse Cell Number 5,
- 13 and that all the water within the impoundment is
- 14 proposed to be recycled to the preparation plant.
- 15 So I had a question about so what is the route, how
- 16 does that get to the preparation plant, is there any
- 17 emergency outfalls proposed from the RD -- RDA5. I
- 18 ask this because this came -- we asked a similar
- 19 question about RDA4 at the 2011 hearing, and even
- 20 though it was discussed as a closed loop system,
- 21 also as a closed loop system, there, it seemed like
- 22 there, in the transcript it seems like there, we got
- 23 a response from the Agency that there was a
- 24 potential for discharge from RDA4 through Outfall 8.
- 25 So I just want to clarify, are there, is -- are

Page 48

- 1 there emergency outfalls from RDA4 and RDA5,
- 2 proposed RDA5, and where will, where will they
- 3 discharge to?
- 4 MS. WARD: There is the emergency
- 5 structure out of the RDA4, and the discharge direct
- 6 the recirculation pond, and the water from the
- 7 recirculation pond is used as the preparation pond.
- 8 MS. CINDY SKRUKRUD: Okay. And what
- 9 about RDA, proposed RDA5?
- MS. WARD: It will be the same.
- 11 MS. CINDY SKRUKRUD: It will go to
- 12 the --
- MS. WARD: Go to the recirculation pond.
- MS. CINDY SKRUKRUD: Okay, thank you.
- 15 That helps a lot. Moving down then, there's a
- 16 discussion about proposed Outfall 10, which is going
- 17 to treat underground pumpage that, from groundwater
- 18 in the Southern Air Shaft. I wondered what you know
- 19 about the quality of that water. Again, at the 2011
- 20 hearing it seemed like you had data on chlorides and
- 21 sulfates, but not metals, and I just wondered if you
- 22 have any more data on the quality of that water,
- 23 which I believe is going to Lick Branch.
- MR. TWAIT: Based on your questions, I,
- 25 I put together the data that we, that we had at

Page 49

- 1 2010, I didn't know that it was for metals. I'd
- 2 have to go back and take a look to see if there's
- 3 any additional metals data for that.
- 4 MS. CINDY SKRUKRUD: But you have
- 5 some -- so do you just have chloride and sulfate
- 6 data --
- 7 MS. WARD: And hardness.
- MS. CINDY SKRUKRUD: Okay. Could --
- 9 will you -- are you willing to give those numbers --
- 10 values?
- 11 MR. TWAIT: The chloride was somewhere
- 12 around 30, sulfates were somewhere around 140, and
- 13 the hardness was 175.
- MS. CINDY SKRUKRUD: Okay, thank you
- 15 very much. So then this, this latest draft of the
- 16 permit discusses four new discharges, Outfalls 9
- 17 through 12. Are those outfalls being constructed in
- 18 drainageways, essentially by impounding a
- 19 drainageway?
- MS. WARD: Outfall 009, as I mentioned
- 21 before, comes from the additional basin that was
- 22 constructed, that is from the West Basin and is
- 23 going to the fresh water lake.
- MS. CINDY SKRUKRUD: Okay.
- 25 MS. WARD: Outfall Number 10 is proposed

Page 50

- 1 in the satellite area out of the earth shaft, but --
- 2 and Outfall Number 11 and 12, both those outfalls
- 3 actually will build out of two cells, and, but both
- 4 those outfalls will control the drainage coming out
- 5 of the Cell Number 5.
- 6 MR. TWAIT: And I believe Outfall 009 is
- 7 not in the drainageway, and Outfall 10, 11 and 12
- 8 would be.
- 9 MS. CINDY SKRUKRUD: Okay. So you know
- 10 that you've heard this objection from us before that
- 11 we shouldn't be taking waters of the state and
- 12 converting them to treatment works, which
- 13 essentially that's what you do when you dam them,
- 14 the creek and make it into a sedimentation basin, so
- 15 I'm wondering was there any consideration given to
- 16 offline basins?
- 17 MR. TWAIT: I believe their
- 18 Anti-degradation Assessment document did look at
- 19 offline, but I'd have to actually go back and, and
- 20 take a look. I'm not, I'm not positive.
- 21 MS. CINDY SKRUKRUD: Yeah, I don't see
- 22 that, at least it wasn't summarized in the
- 23 anti-degradation analysis that's in here.
- Then I also then had a question about
- 25 under the, the things that they, the alternatives

Page 51

- 1 that they did assess for lessening the increase in
- 2 loading and, or minimizing environmental
- 3 degradation. The Anti-degradation Assessment says
- 4 that: Biological treatment in wetlands or reactors
- 5 wasn't possible.
- 6 That is something that the Agency has --
- 7 that we have in place at mines, other mines in
- 8 Illinois as additional treatment, so I wanted to put
- 9 that into the record.
- 10 MR. TWAIT: I don't know that we said
- it's not possible, but they determined that it's not
- 12 feasible.
- MS. CINDY SKRUKRUD: So what's the
- 14 difference?
- MR. TWAIT: The difference could be it's
- 16 possible to construct something like that, but I'd
- 17 have to go back and actually take a look at what
- 18 they came out with, but it might be financial, or it
- 19 might be the, the amount of land necessary. I don't
- 20 remember offhand.
- 21 MS. CINDY SKRUKRUD: Okay, then I
- 22 had a couple -- then I have a few questions that
- 23 come out of the permit, itself.
- 24 So looking at Outfall 001, and looking
- 25 back at the 2011 notice, the sulfate and manganese

Page 52

- 1 limits were increased from what they were proposed
- 2 in 2011, and I wondered if you could explain that.
- 3 MR. TWAIT: The sulfate limit would have
- 4 been based on more current data. We, we look at
- 5 chlorides and hardness data in the receiving stream,
- 6 so we, we got updated information.
- 7 MS. CINDY SKRUKRUD: Okay. Then on
- 8 Outfall 3, why are there chloride limits above 500,
- 9 which is the water quality standard?
- 10 MR. TWAIT: There was -- based on some
- 11 mixing.
- MS. CINDY SKRUKRUD: So mixing in, in
- 13 the --
- MR. TWAIT: In the receiving stream.
- MS. CINDY SKRUKRUD: Okay.
- MR. TWAIT: They, they looked at the,
- 17 the acreage that the ponds collect from, and they
- 18 looked at the upstream acreage and determined there
- 19 was some, some mixing available. It looks like we
- 20 had a mixing, mixing ratio available of 56 to 1, but
- 21 they didn't need all of that, and so we limited them
- 22 to what they said that they needed.
- MS. CINDY SKRUKRUD: Okay. And then are
- 24 the, because that Outfall 003 discharges upstream of
- 25 the fresh water lake, are there any concerns

Page 53

- 1 about -- are there any concerns about materials
- 2 concentrating in the lake from -- now I'm talking
- 3 more generally between Outfalls 2 -- Outfall 002 and
- 4 003 both from discharge upstream to a fresh water
- 5 lake.
- 6 MR. TWAIT: Basically we determined from
- 7 the mixing that the water quality standards would be
- 8 met once the waters are, are mixed with the
- 9 receiving stream. And so there wouldn't be a worry
- 10 about the chlorides or sulfates increasing once it
- 11 got to the lake. They would actually decrease.
- MS. CINDY SKRUKRUD: Okay. Thank you.
- 13 I think I only have one more question.
- So then on Page 23 of the draft permit,
- 15 it's talking about the compacted clay liners to be
- 16 constructed beneath RDA5, and it says that they'll
- 17 be 32 inches. So how do you determine that?
- 18 Because it seems like it's typical for us to see
- 19 four-foot liners, so I wondered how that was
- 20 determined?
- 21 MR. DUNAWAY: The 32 inches is for the
- 22 ditches, because there will be a four-foot liner
- 23 under the RDA and under the sedimentation ponds, and
- 24 then 32 inches in the ditches. And the reason we
- 25 were okay with them using 32 inches -- 32 inches in

Page 54 the ditches is because they will typically be dry, so there won't be head on those liners that would 3 tend to cause the water to infiltrate. MS. CINDY SKRUKRUD: Okay, thank you 4 5 very much. I think those are all my questions. 6 Thank you. 7 HEARING OFFICER STUDER: Thank you, 8 Cindy. Is there anyone else that has a comment that they would like to make on the record before we 10 adjourn this evening? 11 (No response.) 12 HEARING OFFICER STUDER: Okay, let the record indicate that no one raised their hand. 13 14 I remind everyone that the comment 15 period for the, this draft permit is open until April 15th, and comments submitted by mail or 16 17 carrier mail must be received physically by the 15th of April. 18 19 I thank you for your attendance this evening. Thank you and have a great evening. 20 21 (Hearing adjourned at 7:09 p.m.) 22 23 2.4 25

		Page 55
1	CERTIFICATE OF REPORTER	
2	I, Pamela K. Needham, Certified Court Reporter,	
3	Notary Public within and for the State of Missouri,	
4	do certify that the witness whose testimony appears	
5	in the foregoing deposition was duly sworn by me;	
6	the testimony of said witness was taken by me to the	
7	best of my ability and thereafter reduced to	
8	typewriting under my direction; that I am neither	
9	counsel for, related to, nor employed by any of the	
10	parties to the action in which this deposition was	
11	taken, and further, that I am not a relative or	
12	employee of any attorney or counsel employed by the	
13	parties thereto, nor financially or otherwise	
14	interested in the outcome of the action.	
15		
16		
17	Pamela K. Needham, CSR, CCR	
	Illinois CSR No. 084-002247	
18	Missouri CCR No. 505	
19		
20		
21		
22		
23		
24		
25		

	l		<u> </u>	
A	Advisor 4:16	answered 32:8	14:10	B
ability 55:7	Advocate 29:1	answers 32:12	arsenic 41:17	B 42:18
able 24:2 27:17	affiliate 20:17	35:11	ash 39:19 40:4	back 18:17 28:10
accept 10:17 14:4	agencies 37:2	anti-degradation	asked 47:18	29:17,19 34:22
accepted 11:20	38:4	8:2 12:24 34:7	aspects 18:25	34:23 35:2,20
45:13	agency 1:1 3:1,12	34:14,18 45:2	19:8	35:23 39:25
accepting 8:21	4:3,7,12,17,23	45:14 46:1	assess 26:4,6	47:3 49:2 50:19
11:16 14:19	5:4 6:8 8:7 12:7	47:11 50:18,23	51:1	51:17,25
access 9:7	25:5,6 27:21	51:3	assessment 8:3	background 26:3
account 39:2	37:25 41:19	anxious 29:3	34:14,18 40:24	33:15
accurate 13:21	43:19 44:14	anybody 44:4	44:22 45:14	Barb 5:3 10:3
17:14 22:5	47:23 51:6	apparently 22:16	46:1 47:12	barb.lieberoff
acquired 19:5	ago 29:22	APPEARANC	50:18 51:3	5:6
acreage 52:17,18	agribusinesses	5:1	assigned 12:11	Barnes 19:24,25
Act 7:25 8:19	37:16	appears 55:4	Assistant 4:16	based 15:23
16:4	ahead 6:4 18:11	applause 13:23	associated 16:7	25:20 32:25
action 8:22 9:14	18:15	applicable 17:4	association 17:5	48:24 52:4,10
16:5 22:18	Air 48:18	26:25	17:7	basically 33:18
55:10,14	algae 41:14	applicant 7:2	assuming 24:13	53:6
actions 14:3	alleged 23:22	15:25	26:2	basin 30:11,12
active 22:20	allow 9:24 14:24	application 8:23	Assurance 21:19	30:20 31:23,25
activities 6:20	15:1 19:21	9:14 12:17 13:2	21:20 22:6	49:21,22 50:14
actual 10:24	22:13 47:6	appreciate 31:8	atmosphere 24:4	basins 46:17
24:17 47:5	allowed 13:24	46:15	attached 47:8	50:16
additional 19:9	16:17 17:17	appropriate 9:23	attempt 12:9	beauty 20:20
24:11 32:2	41:24	19:21	attendance 17:16	began 36:12
33:23 34:4 35:5	allowing 22:14	approval 11:21	54:19	behalf 6:8 29:2
45:4,6 49:3,21	Alpena 41:10 alternate 17:10	19:10,22 39:11	attending 14:1 attention 11:6	believe 26:12
51:8		39:14		27:6,7,24 35:5
additions 33:22	alternatives 44:22,23 45:3	approved 22:13 26:3	attorney 55:12 audience 13:11	48:23 50:6,17
address 11:10	50:25			believes 6:11
27:18 32:24	amendment	approximately 19:13	authority 8:17 Authorization	beneath 27:1
33:7 44:19	42:12	April 10:17,20	43:11	53:16
addressed 15:13	amount 51:19	12:1 14:8,11	authorize 41:6	benefit 17:9
addressing 7:13	Analyses 45:2	54:16,18	authorized 14:2	benefits 19:13,16
43:21	analysis 34:7	area 10:4 20:25	authorized 14.2 authorizes 8:19	45:2
adjacent 41:13	40:15,15,16,25	22:15 26:18	authorizes 8.19 automated 12:8	best 18:23 55:7
41:15	41:3 42:3,5	27:1,2 41:8	available 9:5	better 26:4 43:5
adjourn 14:2	50:23	43:14,20 45:12	10:11 25:19	bid 46:5,6
54:10	Andrew 28:19,20	45:13 50:1	27:23 29:10	Bill 32:14,24
adjourned 2:11 54:21	Anheuser 39:12	areas 22:12 32:2	52:19,20	Biological 51:4 bit 21:15
Administration	announce 16:22	Arguing 13:15	Avenue 4:4,8,18	Board 9:3,6
38:2	16:24 18:11	Army 38:2	4:24 5:5 11:8	body 17:4,6
Administrative	annual 19:12	arrangements	avoid 15:5	Bonnett 6:9
8:1 9:1,3	answer 23:5 39:6	29:12	aware 25:5	booing 13:23
adversely 20:23	42:17	arrive 10:19		boron 41:17
auversery 20.23				DUI UII 41.1/

	I	I	I	
Bosher 20:2,3	CERTIFICATE	clearly 17:2	17:12,15 18:3	18:20
bound 26:22	55:1	close 7:15 10:15	20:7,12 36:21	confirms 38:6
Box 11:9	certification 7:21	10:17 14:15	36:21 44:17	Consequently
Branch 6:24	Certified 55:2	closed 47:20,21	54:16	13:23
20:15 29:5	certify 55:4	closure 8:25	commercially	consideration
48:23	Chambers 1:15	Club 29:2	36:9,16	50:15
bring 41:24	3:10	clubs 37:18	committed 10:21	considered 9:13
broader 42:24	changes 30:2	clumps 41:13	18:20,24	15:12 27:21,25
brought 42:4	34:1	coal 6:21 7:11	communities	45:7
build 30:11 50:3	Chapter 29:1	22:13 26:18	20:21 37:11,13	construct 51:16
built 31:19	characteristic	33:23,23 34:5,9	Community 4:23	constructed 27:3
Bureau 4:3,12,17	40:21	34:14 36:10,13	5:3,4	30:12 31:24
6:9 12:19 16:9	characterized	36:13,14,16,18	compacted 53:15	32:2,5 49:17,22
Busch 39:12	40:5,12,23	37:13,14,22,22	company 30:7,9	53:16
Busher 32:14	check 21:21 22:6	38:3 39:12,19	30:19 41:24	Construction
business 12:7,10	checking 21:12	40:4 41:8 43:13	44:25	43:11
	Chief 6:9	45:12	comparing 43:25	contact 7:11 9:8
C	chloride 49:5,11	Code 9:1,3 11:6	complained	12:12
C 8:2	52:8	Codes 8:1	42:14	contain 22:18
Caleb 20:1,3	chlorides 48:20	collect 52:17	complaining	contained 15:7
call 15:10 16:16	52:5 53:10	combustion	44:4	contaminants
16:17,19 43:8	Cindy 2:8 28:22	39:12 41:8	complaints 44:13	26:16,19 32:16
called 46:21	28:23,24 29:15	43:13	completed 10:2	33:2,9
calls 44:3,8	30:16 31:4,12	come 15:10 16:16	16:23	content 10:25
Carbondale	31:16,18,22	16:24 17:25	completing 10:7	42:19
39:13	32:1,7 33:8,17	26:1 28:1,10	complexes 37:18	contents 15:17
card 10:3,4,5,7	34:12,16,19,21	33:19 34:22,23	compliance 7:24	contested 9:15
28:17	35:3,7,10 45:23	35:2 36:2 51:23	21:1,19,20 22:6	context 45:8
care 19:16	45:24 47:10	comes 7:11 24:20	complicated 31:5	continue 36:25
carrier 14:9	48:8,11,14 49:4	49:21	comply 19:2	continued 5:1
54:17	49:8,14,24 50:9	coming 34:5,10	concentrating	19:17
case 9:15 14:3	50:21 51:13,21	40:6 45:12 50:4	53:2	continues 19:14
16:10 26:11	52:7,12,15,23	comment 7:15	concentrations	36:19
cause 3:11 54:3	53:12 54:4,8	10:15 11:3,20	26:7 33:1 41:16	continuous 18:24
CCR 3:11 5:9	citizen 17:8	14:7,16 15:7,18	concern 27:16	control 4:12 9:2
55:17,18	City 1:15 3:10	23:23 29:9	concerned 17:8	9:6 13:1 44:1,2
CCW 40:13	Clair 36:8	35:21,22 38:17	30:7	50:4
ceased 27:4	clarify 7:7 25:3	54:8,14	concerning 9:12	controlled 26:17
Cell 7:10 22:17	31:9 47:25	comments 2:5	concerns 41:21	26:20
40:14,14 47:12	Class 26:15,22	8:21 9:22,25	43:18,21 44:16	converting 50:12
50:5	26:25 27:6,7,11	10:6,8,18,25	52:25 53:1	cookie 37:24
cells 50:3	42:18,18	11:1,3,13,17,19	condition 26:11	Coordinator
centers 37:16	classification	11:22 12:6,9	26:13 33:16	4:22 5:3
centimeters 7:9	42:18	13:12,14 14:4,6	43:10	Copies 9:4
certain 3:11	clay 53:15	14:8,13,19,20	conduct 9:23	copy 9:8 23:6,19
25:25	clean 7:25 28:25	14:22,25 15:7	13:25	24:20,21,22
certainly 34:1	29:3,3	16:14,18,23	conducting 17:19	Corps 38:2
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

	1	 I		 I
correct 24:9,18	dates 24:10	53:6,20	Division 13:5	effects 37:12
25:1	day 3:9	dialogue 13:16	DMR's 21:18	effluent 22:24
correctly 12:6	days 12:10	17:15	document 44:25	efforts 18:25
corresponding	deal 21:1	difference 15:11	45:10 50:18	either 12:1 15:24
39:16	dealing 26:17	38:14 51:14,15	documented	electronic 12:6
Coulterville 1:5	deals 25:12 38:21	differences 45:17	25:14 43:19	12:11 24:21
3:4 6:22 18:20	41:5 44:21	different 7:4	documents 7:20	electronically
45:1	Dean 4:22 6:6	19:8 41:23	11:3,5	12:4
Council 1:15	11:6	dig 47:5	document's 45:8	Elimination 6:19
3:10	decades 19:5	direct 48:5	doing 21:19	email 10:8 11:16
counsel 4:16 13:5	decant 22:14	directed 17:13	38:13	11:22 12:9
55:9,12	decide 30:9	36:22 44:8,9	dot 11:23,25	emailed 10:20
counties 36:10,15	decision 10:9,22	direction 55:8	doublecheck	Emails 11:17
36:17	10:24 15:16,20	directly 15:16	28:2 39:24 40:9	12:4
County 1:7 20:16	15:21 16:6	23:23	44:6	emergency 47:17
36:6,7,7,8	decrease 53:11	Director 6:9 9:25	draft 7:5 8:6,21	48:1,4
couple 34:25	defined 37:24	18:13	13:2,14 20:12	employed 55:9
51:22	definitions 26:25	disagree 13:11	29:6 34:6 46:2	55:12
court 5:8 13:18	degradation 51:3	discharge 1:1 3:1	49:15 53:14	employee 55:12
17:9 55:2	degrade 20:24	6:19 8:13 16:11	54:15	employees 19:15
covered 39:9	Department 8:9	22:24 27:19	drafted 13:2	19:19
covering 27:11	22:9 38:1,22	30:12,13,17,23	drainage 50:4	employment
43:14	41:18	30:25 46:12	drainageway	19:18
co-exist 38:8	depend 10:24	47:24 48:3,5	49:19 50:7	employs 19:11
creek 6:24 20:15	27:2	53:4	drainageways	ends 14:8
29:4 50:14	depending 25:24	discharges 6:22	49:18	energy 10:1
crucial 6:12	deposition 55:5	20:14,23 46:18	drive 38:5	18:13 22:17
CSR 3:11 5:9	55:10	49:16 52:24	drop 47:7,7	enforce 8:17
55:17,17	describe 21:15	discontinued	dry 54:1	enforcement
current 16:18	23:9 42:25	27:4	duly 55:5	25:8
17:1 25:16 33:1	describing 23:3	discrepancies	Dunaway 4:2	Engineer 4:11
52:4	39:16	24:23	12:18,18 25:18	Engineers 38:3
currently 19:4,11	design 7:8	discussed 46:5	26:12,24 27:15	ensure 6:13
cutter 37:24	designated 38:23	47:20	32:23 33:13	11:13 14:16
C-I-N-D-Y 28:24	designed 11:18	discusses 49:16	53:21	17:14 24:16
	designs 37:25	discussion 46:4,5	dust 43:10,12,18	25:1
D	desire 7:17 15:2	48:16	44:1,2,3,5	entails 21:16
D 8:2 39:9,14	16:20 17:12	displaying 41:10		entities 8:17
dam 50:13	detail 40:17	disposal 22:14	E	entitled 45:1
data 11:4,5 21:13	46:16	26:9,18 27:1,2	E 4:2	entity 8:12
25:18 33:1	details 23:11,14	39:11,17,19	earth 50:1	environment
48:20,22,25	determination	40:12 43:14	east 5:5 11:8	18:22 24:5
49:3,6 52:4,5	8:4 33:9,14	disposed 40:13	31:23,24	environmental
database 21:4,25	38:24	41:12	easy 9:7	1:1 3:1,12 4:2,3
25:19	determine 53:17	distributed 12:4	eat 37:19	4:7,11,12,17,23
date 10:24	determined 16:8	ditches 53:22,24	ECHO 21:4,25	5:4 6:8 8:18
dated 44:25	51:11 52:18	54:1	24:13,25	10:1 16:3,7

	1			
18:13 19:1 30:6	29:24 46:16	fish 37:19	19:18 20:13	H
37:25 40:24	52:2	five 27:19	34:3 39:10 45:1	Hall 1:15 3:10
51:2	exposed 43:16	float 38:6	generally 33:2	hand 17:23 54:13
EPA 4:1 6:11,18	express 13:14	flow 27:22 46:7	43:1 53:3	happens 43:1
7:6,13 8:7,11	extent 16:5	followed 18:1	Gil 38:10	hard 24:20,22
8:16,17,20,24	extra 30:11	following 7:2	give 21:21 32:20	hardness 49:7,13
9:12,18 10:9,13	E-P-A 11:23	9:20 16:18,25	35:1 49:9	52:5
10:19,21 11:8		18:5 19:10	given 16:3 26:19	Harp 31:15,16
11:16 12:14	F	follow-up 32:10	45:8 50:15	31:20
14:3,7,10,18	faced 22:23	42:21	go 6:4 18:11,15	head 54:2
15:16,20 16:1,2	facilities 33:22	foregoing 55:5	23:21 30:15,23	headquarters
16:6,10 36:17	42:2	forth 7:25	31:1,9 35:23	14:11
EPA's 8:3 40:23	facility 6:21 7:1,3	forward 15:10	48:11,13 49:2	health 19:16
epa.publichear	11:15 19:14	16:16,24 18:1	50:19 51:17	20:20 38:2
11:23	30:8 38:24	19:19 36:2	going 6:4 9:17	hear 18:18
erosion 43:16	39:20 42:12	43:22 46:24	23:21 24:2,10	heard 50:10
essential 19:17	46:24	foul 42:15	24:11 25:8	hearing 1:1,11
essentially 49:18	fact 26:8 33:20	found 9:1 41:16	30:13 47:4,5	2:4,11 3:1,9
50:13	33:21 46:4	four 19:5 21:3	48:16,23 49:23	4:21,22 6:3,7
established 36:18	factored 34:5	36:10,14 49:16	good 6:6 19:15	6:10,17,25 7:2
ethical 18:21	factors 11:1	four-foot 53:19	20:6 28:23 38:7	7:6,14,17,18,23
evaluated 39:5	failed 22:13	53:22	governing 15:18	8:20,23 9:9,11
44:24	failure 22:25	framework	government 37:1	9:15,17,23,24
evaluation 23:12	fall 14:22	40:24	37:2	10:14,16 11:2,4
evening 3:10,10	falls 27:10	frequently 42:15	governmental	11:7,11,14,21
6:6 13:17,24	families 19:15	fresh 20:14 30:8	17:4,6	13:7,8,10,13,20
16:13 20:6	37:11,20	30:14,15,18	governs 24:24	13:21 14:1,2,5
28:23 35:21	family 36:12	31:1,2,9 46:25	Grand 4:4,8,18	14:14,17,18,22
38:16 54:10,20	37:17	47:4 49:23	4:24 5:5 11:8	17:13,16,20
54:20	farm 37:15,19	52:25 53:4	granted 39:11	18:4,10,15
event 22:18	38:4	front 12:15 23:24	great 29:15 35:3	19:23 20:1,4
exact 40:7	feasible 51:12	24:5	54:20	21:8,24 22:2
exactly 9:10 42:1	federal 7:24 16:4	fugitive 43:10,12	greater 7:8	23:20 24:1,5,9
exceed 25:23	16:9 38:4	full 46:8	gross 41:14	24:15 28:6,12
exceedances 21:5	Federation 20:17	Fullerton 18:6,8	ground 25:23	28:14,16,19,21
exhibit 12:10	fields 37:11,15	full-time 19:11	groundwater 4:3	29:11,17,22
14:17	filed 12:6	fungus 41:15	12:19,20 25:16	30:6 34:19,24
exhibits 2:13	filing 16:13	further 7:7 9:21	26:15,17,18,21	35:4,8,12,14,18
11:5	final 8:22 9:14	18:24 55:11	27:11 29:3	36:1,20,24 37:3
existing 39:10	10:9,22 15:16	future 38:9 44:8	32:13 39:6	37:5,8 38:15,19
46:12	financial 51:18		48:17	44:12 45:22
expedited 29:12	financially 55:13	G	groups 30:6	44:12 43:22 47:3,19 48:20
expeditious	first 9:17 16:19	garden 37:19	growths 41:14	r e
10:23	17:11,24 21:1	Gate 34:10	Gutknecht 38:10	54:7,12,21 hearings 6:11
expired 29:21	23:2 29:7,18	Gateway 1:6 3:5	G-O-V 11:25	8:25
39:18	30:14 33:20	11:7,12 12:2	G-U-T-N-E-C	
explain 9:16	46:8	18:21 19:4,12	38:11	hearken 29:17
		ĺ	30.11	held 3:9 6:25

	1	1	1	ı
8:23	IL0062189 1:2	indicated 14:4	10:22 12:21	K-R-U-K-R-U-D
help 11:13 17:14	3:2	indicating 12:10	13:15 14:21	28:25
27:17 33:16	immediate 36:15	indications 44:15	15:15 16:8,11	
helpful 14:14	impact 15:20	industrial 37:16	19:20 21:6 22:4	L
44:15,18	41:19 45:3	infiltrate 54:3	22:6 24:16	lack 27:20
helps 48:15	impacted 45:13	information 9:12	issuing 30:5	lake 20:14 30:8
he'll 18:1	impacts 26:8	9:13 12:13 22:4	items 16:7,8	30:14,15,19
high 32:16 37:15	impair 20:24	24:11,20 25:15	Iwona 4:11 12:25	31:1,2,3,10
37:17 39:6	impaired 46:14	25:20 41:2	iwona.ward@i	46:25 47:5
41:16	impounding	43:25 52:6	4:14	49:23 52:25
higher 39:1	49:18	informational	I-L-L-I-N-O-I-S	53:2,5,11
hike 38:5	impoundment	6:17 9:9,10	11:24	lakes 20:19
hissing 13:23	27:18 47:13	informations	I-L-0-0-6-2-1-8-9	Lance 19:24,25
hold 6:12 18:2	improve 19:8	40:17	11:15 12:3	land 18:23 51:19
holding 8:20	32:5,6	initially 14:24		large 22:14
homes 37:11,17	improved 46:11	15:2,4	J	lasting 20:20
hopefully 33:15	improvement	inspection 43:23	Jackson 1:16	latest 34:6 49:15
hours 3:9 12:7	18:24	installed 26:4	3:10	law 16:2,9
huge 24:25 38:14	improvements	instance 26:20	January 7:4,22	lawfully 15:22
hunt 37:19	19:10	instances 27:8	jeering 13:23	leaching 40:21
Hunting 37:18	improving 46:6	43:19	Joanne 4:16 13:4	40:23
H-E-A-R-I-N	inches 53:17,21	instructions 9:21	joanne.olson@	leave 22:15 43:13
11:24	53:24,25,25	9:21	4:19	leaving 43:20
	incident 22:11	intend 13:8	June 7:1 22:21	legal 13:5,6
I	23:3	intended 15:9	39:18	legibly 10:6
IDNR 23:6	include 7:23	16:21		lengthy 14:13
IEPA 1:1 3:1,12	36:11	interest 13:20	<u>K</u>	Lessen 45:3
39:2,9,16	included 7:20	interested 55:14	K 3:11 5:9 55:2	lessening 51:1
IL 3:11 4:4,8,13	14:17	introduce 9:18	55:17	let's 36:20
4:18,24 5:5,9	includes 21:4	12:15	keep 14:20 16:12	levels 13:22
Illinois 1:1,17 3:1	including 18:25	investigating	28:17 36:21	32:16
3:11,12 4:1,3,7	22:23 33:23	21:11	44:2	Lick 6:24 20:15
4:12,17,23 5:4	income 19:15	investigation	Ken 2:6 9:25	29:5 48:23
6:7,11,18 7:6	incorporated	21:10,12,15	17:25 18:12,12	Lieberoff 5:3
7:13 8:1,3,7,9	39:22	investments 19:8	18:19	10:3
8:11,16,16,18	incorporation	involved 14:21	kept 13:22	life 38:7
8:20,24 9:1,2,3	43:14	involvement 9:20	kind 29:17	lime 41:7,9,22,23
9:5,12,18 10:9	increase 51:1	iron 21:5 41:17	know 21:8 23:4,5	42:8
10:13,19,21	increased 33:4	issuance 15:18	23:5,6 24:10,11	limit 28:7 52:3
11:8,9,16,24	34:10 46:10	15:24	27:13 30:1 31:6	limited 16:5,7
12:14 14:3,7,10	52:1	issue 14:23 16:2	39:4 40:22 41:2	27:22 52:21
14:18 15:16,20	increasing 53:10	24:25 27:5	42:20 43:17	limits 21:5 28:1,4
16:1,2,3,6,10	INDEX 2:1	issued 7:22 15:23	44:16 45:18	52:1,8
20:19 29:1	indicate 10:5	25:4,6 30:10	46:20 48:18	line 12:3,5
37:22 38:1,6	11:11 17:7,22	39:17	49:1 50:9 51:10	liner 7:7 53:22
39:13 51:8	38:25 39:5	issues 7:14,16,19	known 6:20	liners 53:15,19
55:17	54:13	7:23 8:14 10:14	knows 30:1	54:2
		l	l	l

	1		1	I
Lisa 6:9	10:23 13:9	million 19:13	27:5 32:13,17	49:16
listed 11:10	18:22	mind 16:12	32:17,17,18,21	newer 40:23
22:11 46:14	March 1:12 3:9	mine 1:6 3:5 4:12	33:2,3 41:15	NLV 23:12
litany 38:3	44:25	11:7,12 12:2	moving 43:22	noise 13:22
Litigation 5:10	Marcia 6:10	13:1 19:4,6,6,9	48:15	noises 13:24
little 21:15 46:16	Marion 4:13	19:12,14,18	multiple 11:20	noncompliance
live 20:22 37:19	44:10	29:20 30:1,3	23:22 44:13	21:3
LLC 6:22 45:1	Marjorie 2:9	33:11,12 34:3	Murdock 41:11	nonprofit 20:18
loading 46:9 51:2	18:1,2,5 35:25	34:11 38:1,4	42:14	normal 12:7
load-out 33:24	36:4,4,23 37:1	39:10 41:11	M-A-R-J-O-R	normally 43:25
local 38:3 44:4	37:4,7,10	44:5,10,25 45:2	36:5	North 4:4,8,18
located 27:6	marked 2:13	mined 36:10,11		4:24 5:5,10
location 27:18	Marlin 35:12,13	36:12,14,16	N	11:8 34:3,10
Log 39:16	Mary's 6:24	45:12	name 6:6 12:18	notably 22:11
long 10:18 29:25	20:15,22 29:4	Minerals 8:10	12:22,25 13:4	Notary 55:3
46:22	material 41:13	22:10 25:19	15:10 16:16,17	note 46:13
look 19:19 29:19	41:23 42:3	mines 8:10 20:13	16:19,22,25	notice 1:1 3:1
33:6 37:10	43:13,20	22:10 25:19	17:3,10,11	11:10 14:5
41:25 43:24	materials 41:20	37:14,22 51:7,7	18:11,14 20:8,8	22:20,22 23:17
49:2 50:18,20	43:1 53:1	minimizing 51:2	28:24,24 31:14	23:19 25:4,7
51:17 52:4	matter 6:18	minimum 13:22	36:2,3	33:20 40:20
looked 25:20	10:10,16,23	mining 1:5 3:4	narrow 46:22	46:3 51:25
32:13 52:16,18	15:21,21 25:7	6:21,22 8:8,8	National 6:18	noticed 7:4 26:15
looking 32:25	mean 37:9	18:20,21 36:18	20:17	notified 10:8
45:11 51:24,24	means 9:9	37:13,22 38:7	natural 8:9 22:9	notify 22:25
looks 52:19	meat 27:5	45:1	37:23 38:1,5,22	Novaselac 35:16
loop 47:20,21	meet 27:21 30:24	minus 7:9	naturally 26:7	35:16
lot 24:19 48:15	meeting 7:8	minutes 14:24	33:10,11	Novaselack
Louis 5:11	meets 8:4 15:25	Missouri 55:3,18	nearly 11:19	35:15
Lynn 4:2 12:18	member 17:8	misspoke 42:10	36:17	NPDES 1:2 3:2
32:11	members 4:1	mixed 53:8	necessarily 22:5	6:20 7:1 8:15
lynn.dunaway	13:11 17:13	mixing 27:20,22	32:24 46:20	11:8,11,12,14
4:5	20:21 29:2	27:25 28:4	necessary 7:18	11:17 12:2,2
L.L.C 1:5 3:4	memo 12:24,24	41:21 52:11,12	43:15 51:19	13:3 16:11,14
N#	mention 37:2	52:19,20,20	need 11:25 14:9	19:16 20:13
<u>M</u>	40:20	53:7	24:10,11 41:2	21:1 22:23 23:9
mail 11:6 14:9	mentioned 33:14	Mm-hmm 31:17	42:2 52:21	24:7 39:14,24
54:16,17	49:20	MO 3:11 5:9,11	needed 52:22	40:20
Main 4:13	merit 15:12	modifications	Needham 3:11	number 7:10
making 13:19	met 53:8	33:22,24	5:9 55:2,17	10:24 11:7,12
16:6	metals 48:21	modified 19:20	neither 55:8	11:14 12:3,10
management 18:23	49:1,3	20:13	Network 20:10	15:23 22:17
	microphone 17:3	moisture 42:19	20:16,21	27:15 29:5
manganese 41:17	36:2	moment 44:5	neutralization 41:7	38:22 39:3,15
46:10,15,17	midnight 12:1	monitored 25:21		39:16 40:14,14
47:8 51:25 manner 8:15	Midwest 5:10	monitoring	new 31:18,23 39:9 47:12	41:25 42:14
manner 8:13	mike 18:6,8,16	25:14,20 26:6	39.9 47.12	43:11,12,17
	<u> </u>	<u> </u>	l	I

	I	I	I	I
47:12 49:25	28:13,21 29:15	originating 11:18	pending 3:12	18:6
50:2,5	31:4,22 32:1,7	outcome 55:14	people 13:6	personal 36:21
numbers 23:19	32:7 33:17,18	Outfall 21:6	15:24 18:17	persons 13:25
36:11 40:7,9	34:16,24 35:3,7	22:15 46:10,19	21:18 34:25	physical 7:20
49:9	35:10,14,18,19	46:19 47:1,24	36:22 44:4	physically 10:19
nutrients 41:17	35:24 36:20,23	48:16 49:20,25	period 7:15	14:10 54:17
	36:24 37:4 38:9	50:2,6,7 51:24	10:16 11:3 14:8	place 51:7
0	40:2,10 41:4	52:8,24 53:3	14:16 29:9,10	placed 11:4
object 13:12	42:9,13 44:11	outfalls 46:7	30:3 54:15	places 44:13
objection 50:10	44:20 45:19	47:17 48:1	permanent 8:22	placing 22:16
obtaining 8:5	47:10 48:8,14	49:16,17 50:2,4	permeability 7:8	plan 8:25 22:13
16:1	49:8,14,24 50:9	53:3	27:10	22:19
occurred 23:9	51:21,21 52:7	outside 14:22	permit 1:1,2 3:1	planning 29:13
30:2 34:2	52:15,23 53:12	39:23	3:2 6:12,20 7:1	plant 47:14,16
occurring 22:11	53:25 54:4,12	outstanding	7:3,5,7 8:5,6,15	plants 37:14
23:1 26:7 33:11	Olson 4:16 13:4	10:22	8:25 9:13,14,20	play 37:19
odors 42:15	13:4 23:4,16	overview 42:24	11:12,14 12:2	please 10:3 11:5
offhand 27:14	25:6	o'clock 3:9,10	12:17 13:3,15	11:11 12:5
51:20	once 15:10,13		14:21 15:17,22	14:20 15:5,7
office 4:23 5:4	37:14 53:8,10	<u> </u>	15:25 16:1,2,12	16:12,16 17:2
8:10 22:9 40:16	ones 44:18	page 2:2 33:21	16:14 19:3,10	18:3 36:3,22
41:1,1 44:10,10	ongoing 25:13	46:3 53:14	19:17,20 20:13	Plum 6:24 20:15
officer 2:4 4:21	26:20	Pamela 3:11 5:9	20:24 22:4,8,12	29:4
6:3,7 11:7,21	open 54:15	55:2,17	22:12,15 26:3	plus 37:12
13:7,8 18:4,10	opening 2:3 6:15	panel 4:1 9:18	26:11,13 27:25	point 7:6 8:6
18:15 19:23	operated 19:6	12:14 13:10	28:4 29:6,18,21	10:3 15:10,11
20:1,4 21:8,24	operating 29:20	17:13,16 24:2	29:23,25 30:5	Policy 20:9
22:2 23:20 24:1	29:20 34:4	paragraph 46:8	30:10 31:7	pollutant 6:19
24:9,15 28:6,12	operation 18:21	47:11	33:16,25 34:6	33:12
28:14,16,19,21	18:25 19:5,17	parameters	38:21 39:9,14	pollutants 44:24
29:11 34:19,24	27:3,4	25:25 26:1	39:15,17,23,24	45:5
35:4,8,12,14,18	operations 8:8,8	parks 37:18	40:20 41:6,9	pollution 4:12
36:1,20,24 37:3	operator 21:2	part 6:12 7:17	43:20 44:22	9:2,5 13:1
37:5,8 38:15,19	22:13,22 26:22	9:1 11:13 33:24	45:9,21 46:2	25:13,16 26:21
44:12 45:22	27:21	parties 55:10,13	49:16 51:23	33:12
54:7,12	operator's 22:8	party 11:18	53:14 54:15	pond 30:24,25
Officer/Right-t	opportunity 9:11	pass 15:9 16:21	permits 15:1,3	31:11,15,16,20
4:22	14:25 20:7,11	18:8 19:25 20:3	39:10,22,22	31:20,21,23
official 24:17,21	35:1	20:4 28:20,21	permitted 13:16	46:21,22 48:6,7
24:23	oppose 15:24	35:13,14,17,18	39:20	48:7,13
offline 50:16,19	opposition 15:19	passed 18:5	permitting 8:7	ponds 31:13,13
Oh 34:21	oral 14:13,19	pastures 37:15	8:11 16:5	31:19 47:5,6
okay 17:22 18:4	orally 24:4	payroll 19:12	permit's 34:2	52:17 53:23
18:5,10,12,15	organization	Peabody 1:5 3:4	Perry 36:7	portions 39:10
18:19 20:4	17:4,6 20:18	6:21 10:1 18:13	person 13:25	positive 50:20
21:22,23 22:2,7	organizations	18:19 19:5,7,11	16:17,19,22,24	possible 19:22
25:2,10 26:14	36:22	45:1	16:25 17:24	28:11 51:5,11
	1	I	I	I

55:16		Ī			1
post-hearing production 34:9 productive 88:7 professional 13:9 program 4:12 16:9 program 4:12 16:2 production 3:16 proposal 7:3 proposal 6:22 7:1 30:14,19 48:16 49:25 proposed 6:22 7:1 30:14,19 48:16 49:25 program 4:12 16:23,24 20:25 program 4:12 16:44		_			
10:18	_	_			
post-hearing 29:9 44:17 potential 27:20 41:19 45:6 47:24 81:12 15:20 prower 16:3 practices 18:23 37:21 39:17 Prairic 20:9,16 20:21 36:18 preliminary 8:3 preparation 37:14 47:14,16 48:16 49:25 presence 38:25 present 37:21 presence 38:25 present 37:21 prevention 44:23 previous 39:23 previous 39:24 proceeding 7:19 procedure 40:21 procedure 3:24 t7:19 provided 19:14 proceeding 7:19 provided 19:14 proceeding 7:19 provided 19:14 proceeding 6:1 7:10 3:1 proceeding 6:1 7:10 3:1 1:21 provided 19:14 proceeding 6:1 7:11 23:12 provided 19:14 provided 19:14 provided 19:14 provided 19:14 provided 19:14 proceeding 6:1 7:11 23:12 provided 19:14 provid	_	-		ran 15:3	reference 11:12
29:9 44:17 potential 27:20 13:1 13:1 20:14:19 45:6 41:19 45:6 47:24 8:12 15:20 project 7:22 8:4 47:24 8:12 15:20 prolonged 13:16 17:15 37:21 39:17 promote 20:20 properly 6:14 proposal 7:3 preparation 37:14 47:14,16 48:6 49:25 presence 38:25 previous 39:23 previous 39:23 previous 39:23 previous 39:23 provoked 5:21 protect 20:18 43:16 prevention 44:23 previous 39:23 previous 39:23 previous 39:23 previous 39:23 previous 39:23 procedure 40:21 procedure 8:24 17:19 procedure 40:21 procedure 40:21 procedure 40:21 procedure 56:14 6:14 proceeding 6:15 3:1.12 4:2.3,7 4:1.12.312 40:5.11 4:22:5 43:21 43:2	10:18	productive 38:7	purview 8:16	Randolph 1:7	44:8
potential 27:20 41:19 45:6 47:24 81:12 15:20 power 16:3 practices 18:23 37:21 39:17 Prairie 20:9,16 20:21 36:18 preparation 37:14 47:14,16 48:7 48:16 49:25 preparation 7:1 30:14,19 37:14 47:14,16 48:7 preparation 37:14 47:14,16 48:16 49:25 presented 15:6 13:2 presented 15:6 prevention 44:23 previous 39:23 previous 39:23 previous 39:23 proir 8:22 10:15 proibe 24:19 prodedure 40:21 prodedure 40:21 prodedure 40:21 procedure 40:21 procedure 40:21 procedure 40:21 procedure 40:21 proceding 7:19 proceding 7:19 43:21 procededing 7:19 proceding 6:11 17:15 18. POJ-B-L-I-C 11:23 p.m 1:12 6:2 p	post-hearing	professional 13:9	16:9		references 39:14
41:19 45:6 47:24 47:24 8:12 15:20 prower 16:3 practices 18:23 37:21 39:17 Prairie 20:9,16 20:21 36:18 preliminary 8:3 preparation 37:14 47:14,16 48:16 49:25 7 propared 8:6 13:2 presented 8:6 13:2 presented 9:66 previously 6:25 35:24 previously 6:25 35:24 proivously 6:25 35:24 provide 9:11,19 9:21,25 10:4 proivously 6:25 35:24 provide 9:11,19 9:21,25 10:4 proivously 6:25 35:24 provide 9:11,19 9:21,25 10:4 proivously 6:25 36:24 provide 9:11,19 9:21,25 10:4 provide 9:11,19 9:21,25 10:4 providing 10:7 providing 10:1 quote/aupute 33:11 14:17 proceedings 6:1 6:14 proceedings 6:1 6:14 providing 10:7 providing 10	29:9 44:17	program 4:12	put 24:21 48:25	ratio 52:20	reflect 22:3
47:24 power 16:3 prodoinged 13:16 17:15 promote 20:20 proposed 6:22 54:21 proposed 7:21 12:23 24:15 20 properly 6:14 proposed 6:22 7:1 30:14,19 37:14 47:14,16 48:7 48:16 49:25 30:25 38:7 45:3 48:19,22 5:9 protect 20:18 48:16 49:25 protection 1:1 31:12 protection 1:1 31:12 provided 9:11,19 provided 9:11,19 probably 43:4 probem 24:19 30:9 37:9 protection 23:16 13:2 protecture 40:21 procedure 8:24 17:19 procedure 8:24 17:10	potential 27:20		51:8	RD 47:17	refuse 7:12 26:18
prower 16:3 practices 18:23 and 2:12 system of 2:20 practices 18:23 and 2:21 system of 2:20 promote 20:20 properly 6:14 proposal 7:3 proposal 8:3 proposal 8:6 47:14,174,174 8:2,9 48:16 49:25 52:1 protect 20:18 48:16 49:25 52:1 protect 20:18 43:16 protection 1:1 and 2:2 protect 20:18 presented 15:6 protection 1:1 and 2:2 provide 2:1 and 2:2 provide 2:1 and 2:2 provide 2:1 and 2:2 provide 2:2 provide 2:1 and 2:2 provide 2:2 provide 2:1 and 2:2 provide 2:1 and 2:2 provide 2:1 and 2:2 provide 3:2 and 2:2 an	41:19 45:6	project 7:22 8:4	P-U-B-L-I-C	RDA 27:19 48:9	27:1,2 41:8
Tris Prairie 20:916 Properly 6:14 Proposal 7:3 Properly 6:14 Proposal 7:3 Proposal 6:22 7:1 30:14.19 47:14,17 48:2,9 48:7 48:16 49:25 7:1 30:14.19 48:14.7 48:1,5 48		8:12 15:20	11:23	53:23	47:12
37:21 39:17	power 16:3	prolonged 13:16	p.m 1:12 6:2	RDA2 42:25	regarding 9:19
Prairie 20:9,16 20:21 36:18 proposal 7:3 proposed 6:22 7:1 30:14,19 48:17 Quality 4:7 7:21 25:23 27:22 7:22 30:25 38:7 45:3 48:16 49:25 7:25:23 27:22 7:22 7:22 7:22 7:22 7:22 7:22	practices 18:23	17:15	54:21	RDA4 47:19,24	11:7 17:18
20:21 36:18 proposal 7:3 proposed 6:22 7:1 30:14,19 47:7:21 12:23,24 20:25 37:12 47:14,16 48:16 49:25 52:1 protect 20:18 48:16 49:25 52:1 protection 1:1 prosent 37:21 presented 15:6 prevention 44:23 previous 39:23 5:4 6:8 8:19 12:20 16:4 35:24 protocts 18:22 protocts 18:22 protocts 18:22 protocts 18:22 probably 43:4 problem 24:19 probably 43:4 problem 24:19 procedure 40:21 procedure 40:21 procedure 40:21 procedure 40:21 procedure 8:24 17:19 proce	37:21 39:17	promote 20:20	P.O 11:9	48:1,5	19:20 20:12
preliminary 8:3 preparation	Prairie 20:9,16	properly 6:14		RDA5 47:17 48:1	regardless 7:10
preparation 7:1 30:14,19 12:23,24 20:25 reaching 10:22 reactors 51:4 regulated 8:9 10:4 regulated 8:9 regulating 8:13 37:14 47:14,16 48:7 48:16 49:25 48:16 49:25 30:25 38:7 45:3 48:19,22 52:9 real 27:4 realing 6:15 real 27:4 realing 6:15 real 27:4 realing 8:13 regulated 8:9 regulating 8:13 realing 8	20:21 36:18	proposal 7:3		48:2,9 53:16	registered 35:22
37:14 47:14,16 48:16 49:25 prepared 8:6 13:2 presence 38:25 presented 15:6 prevention 44:23 previous 99:23 55:4 proived 9:11,19 probably 43:4 problem 24:19 problem 24:19 procedural 29:7 procedure 40:21 procedure 40:21 procedure 40:21 procedure 40:21 procedure 8:24 17:19 procedure 8:24 17:19 procedure 8:24 17:19 procedure 8:24 17:19 procedure 9:17 14:23 30:5 provioins 8:24 proceeding 7:19 7:21 8:14 10:8 11:17 proceedings 6:1 6:14 proceedings 6:1 6:15 preactors 51:4 really 33:6 real 27:4 really 33:6 reactors 51:4 really 33:6 reactors 51:4 really 33:6 reactors 51:4 really 33:6 reactors 51:4 really 33:6 real 27:4 really 33:6 reactors 51:4 really 33:6 real 27:4 really 33:6 reasons 30:4 received 10:25 11:25 5:17 received 10:25 11:25 5:17 received 10:25 11:25 5:17 received 10:25 11:25 5:17 received 10:25 11:25 5:14 relate 3:9 received 10:25 55:11 relate 3:9 receive	preliminary 8:3	proposed 6:22		reaches 10:9	registration 10:2
48:7	preparation	7:1 30:14,19	•	<u> </u>	
Signature Sign	37:14 47:14,16	47:14,17 48:2,9		reactors 51:4	regulated 8:9
Table	48:7	48:16 49:25		reading 6:15	regulating 8:13
presence 38:25 present 37:21 presented 15:6 prevention 44:23 previous 39:23 previously 6:25 35:24 problem 24:19 problem 24:19 problem 24:19 groedural 29:7 procedural 29:7 provided 19:14 providing 10:7 provided 38:9,9,10 quote/unquote 33:11 quoting 33:10 R Rain 28:19,20 raise 7:18 37:20 procedu 47:14 16 recive 12:12 decive 12:12 decive 10:25 recived 10:25 relate 8:15 16:11 related 13:15 11:25 54:17 received 10:25 55:9 recived 10:25 55:9 relates 39:2 relate 8:15 16:11 related 13:15 11:25 54:17 receiving 7:14 19:21 31:2,3 44:3 46:14 52:5 55:11 10:16 11:4,14 10:16 11:4,14 13:19 14:17 17:22 23:23 51:20 remember 44:3 54:14 reasons 30:4 recived 10:25	prepared 8:6	52:1		real 27:4	regulations 8:1
present 37:21 presented 15:6 prevention 44:23 previous 39:23 previously 6:25 35:24 prior 8:22 10:15 11:21 probably 43:4 problem 24:19 30:9 37:9 procedural 29:7 procedure 40:21 procedure 8:24 17:19 proceeding 7:19 recedure 8:24 17:19 proceeding 7:19 recedure 8:24 17:19 proceeding 7:19 recedure 8:24 17:19 proceeding 6:1 11:21 proceeding 6:1 6:14 proceeding 6:1 6:16 preceive 12:12 40:25 42:3 preceived 10:25 11:25 54:17 received 10:25 11:25 54:17 relate 8:15 16:11 related 13:15 15:17 33:12,19 55:9 received 10:25 11:25 54:17 proceiving 7:14 19:21 31:2,3 44:3 46:14 52:5 52:14 53:9 recived 10:25 11:25 54:17 related 13:15 15:17 33:12,19 55:9 relates 8:21 11:25 54:17 relate 8:15 16:11 related 13:15 15:17 33:12,19 55:9 12:20 3:19 12:20 16:4 44:3 43:10 44:21 44:13 received 10:25 11:25 54:17 receiving 7:14 19:21 31:2,3 44:3 46:14 52:5 55:9 received 10:25 11:25 54:17 relate 8:15 16:11 related 13:15 15:17 33:12,19 55:34 relates 9:5 11:25 54:17 relate 8:15 16:11 related 13:15 15:17 33:12,19 55:4 19:21 31:23 11:25 54:17 receiving 7:14 19:21 31:23 11:25 54:17 received 10:25 11:25 54:17 19:21 31:23 11:25 54:17 19:21 31:23 19:21 31:23 11:25 54:17 19:21 31:23 19:21 31:23 19:21 31:23 19:21 31:23 19:21 31:23 19:21 31:23 19:21 31:23 19:21 31:23 19:21 31:	13:2	protect 20:18		really 33:6	8:18 9:3,5
presented 15:6 prevention 44:23 previous 39:23 previously 6:25 35:24 prior 8:22 10:15 11:21 probably 43:4 problem 24:19 30:9 37:9 procedure 40:21 procedure 40:21 procedure 8:24 17:19 procedure 8:24 17:19 proceding 7:17 14:23 30:5 proceeding 7:19 7:21 8:14 10:8 11:17 proceeding 6:1 6:14 proceeding 6:1 6:14 proceeding 6:1 6:14 proceed 9:17 14:23 30:5 proceeding 6:1 6:14 proceeding 6:1 6:16 proceeding 6:1 6:16 proceeding 6:1 6:16 proceeding 6:1 6:17 proceeding 6:1 6:18 proceeding 6:1 6:19 proceeding 6:1 6:10 proceeding 7:19 7:21 8:14 10:8 11:10 13:13 11:25 33:11 34:4 44:13 preceived 10:25 11:25 54:17 preceiving 7:14 12:2 13:12 11:25 54:17 preceiving 7:14 14:3 46:14 52:5 55:9 preceived 10:25 11:25 54:17 preceiving 7:14 14:3 46:14 52:5 55:9 preceived 10:25 11:25 54:17 preceiving 7:14 14:3 46:14 52:5 55:9 preceived 10:25 11:25 54:17 preceiving 7:14 14:3 46:3 46:3 46:3 45:3 55:3 14:3 44:3 11:25 54:17 preceiving 7:14 14:3 46:3 46:3 46:3 45:3 55:3 14:3 44:3 16:12 preceived 10:25 11:25 54:17 preceiving 7:14 14:3 46:3 46:14 15:15 55:17 13:20 11:25 54:17 preceiving 7:14 14:3 46:3 46:3 46:3 45:3 55:3 14:3 10:33 11:25 54:17 preceiving 7:14 14:3 46:3 46:3 46:3 45:3 55:3 14:3 12:3 11:25 54:17 preceiving 7:14 14:3 46:3 46:3 45:3 55:3 11:25 54:17 preceived 10:25 11:25 54:17 preceiving 7:14 14:3 46:3 46:3 45:3 55:3 11:25 54:17 proceiving 7:14	presence 38:25	43:16	_	reason 53:24	15:18 16:6
prevention 44:23 previous 39:23	present 37:21	protection 1:1	-	reasons 30:4	reissued 29:25
previous 39:23 5:4 6:8 8:19 43:10 44:21 44:13 44:13 15:17 33:12,19 previously 6:25 35:24 37:25 50:24 53:13 questions 17:18 44:13 received 10:25 55:9 75:17 33:12,19 probably 43:4 protects 18:22 provide 9:11,19 9:21,25 10:4 29:5,17 31:8 44:3 46:14 52:5 Relations 4:23 5:3,4 problem 24:19 30:9 37:9 19:14 20:7,11 23:15 32:2 40:9 45:25 46:1 48:24 51:22 55:11 recirculation 48:6,7,13 reclamation 48:6,7,13 reclamation 41:0:13 11:3 16:10 record 6:2,16 16:10 remaining 19:20 proceed 9:17 14:23 30:5 providing 10:7 providing 10:7 quote/unquote 33:11 13:19 14:17 16:10 remaining 19:20 proceedings 6:1 8:23 9:9,24 11:10 13:13 R R R R R R R F F F F F F F F F F F F F F F F	presented 15:6	3:1,12 4:2,3,7	,	receive 12:12	relate 8:15 16:11
previously 6:25 35:24 37:25 prior 8:22 10:15 11:21 probably 43:4 problem 24:19 30:9 37:9 procedure 40:21 procedure 40:21 procedures 8:24 17:19 procedure 8:24 17:19 procedure 9:17 14:23 30:5 proceeding 7:19 7:21 8:14 10:8 11:17 proceedings 6:1 6:14 process 6:13 9:20 21:11 23:12 40:5,11 42:25 provide 9:17 14:23 30:5 proceeding 6:1 6:14 process 6:13 9:20 21:11 23:12 40:5,11 42:25 provide 9:17 14:7 17:8 30:7 21:11 23:12 40:5,11 42:25 provide 9:17 14:7 17:8 30:7 21:11 23:12 40:5,11 42:25 promably 43:4 provide 9:11,19 50:24 53:13 questions 17:18 21:1 25:12 28:7 29:5,17 31:8 32:9 33:19 34:17,20 35:6 44:3 46:14 52:5 55:9 received 10:25 55:9 relates 39:2 11:25 54:17 receiving 7:14 19:21 31:2,3 44:3 46:14 52:5 55:11 relates 39:2 11:25 54:17 received 10:25 11:25 54:17 received 10:25 11:25 54:17 receiving 7:14 19:21 31:2,3 44:3 46:14 52:5 55:9 relates 39:2 Relations 4:23 55:3,4 relative 33:6 recirculation 48:6,7,13 reclemation 48:6,7,13 receamation 42:25 10:10 10:16 11:4,14 quote 38:9,9,10 quote/unquote 33:11 35:23 38:17 7:22 23:23 remedial 22:17 remember 44:3 51:20 received 10:25 55:9 relates 39:2 Relations 4:23 11:21 10:13 11:3 received 10:25 55:9 relates 39:2 Relations 4:23 11:21 10:16 11:4,14 11:10:13 11:3	prevention 44:23	4:11,12,17,23		40:25 42:3	related 13:15
35:24 prior 8:22 10:15 protects 18:22 provide 9:11,19	previous 39:23	5:4 6:8 8:19		44:13	15:17 33:12,19
prior 8:22 10:15 protects 18:22 questions 17:18 receiving 7:14 Relations 4:23 probably 43:4 problem 24:19 9:21,25 10:4 29:5,17 31:8 19:21 31:2,3 44:3 46:14 52:5 Relations 4:23 30:9 37:9 19:14 20:7,11 23:15 32:2 40:9 34:17,20 35:6 52:14 53:9 recirculation procedure 40:21 40:16 41:3 42:5 45:25 46:1 48:24 51:22 reclamation 8:14 10:13 11:3 proceed 9:17 provided 19:14 providing 10:7 quote 38:9,9,10 42:25 record 6:2,16 16:10 remaining 19:20 proceeding 7:19 43:21 quote/unquote 33:11 24:17,22,23 35:23 38:17 remediation 7:21 8:14 10:8 11:17 proceedings 6:1 8:23 9:9,24 33:11 quoting 33:10 22:20 remediation Rain 28:19,20 Rain 28:19,20 receiving 7:14 16 receiving 7:14 receiving 7:14 Relations 4:23 10:16 11:4,14 proceiving 7:14 proceiving 7:	previously 6:25	12:20 16:4		received 10:25	55:9
Ti:21	35:24	37:25		11:25 54:17	relates 39:2
probably 43:4 problem 24:19 9:21,25 10:4 29:5,17 31:8 44:3 46:14 52:5 relative 33:6 30:9 37:9 19:14 20:7,11 29:5,17 31:8 32:9 33:19 52:14 53:9 relative 33:6 procedural 29:7 23:15 32:2 40:9 41:5 45:20,25 48:6,7,13 release 26:16 procedures 8:24 43:5,25 45:25 46:1 48:24 51:22 8:14 10:13 11:3 proceed 9:17 14:23 30:5 provided 19:14 provisions 8:24 43:21 quote 38:9,9,10 10:16 11:4,14 13:19 14:17 remaining 19:20 proceeding 7:19 33:11 24:17,22,23 remedial 22:17 7:21 8:14 10:8 31:9 6:11 7:4 33:11 24:17,22,23 remedial 22:17 proceedings 6:1 8:23 9:9,24 11:10 13:13 46:3 47:3 55:3 7erecord 6:2,16 7ereco	prior 8:22 10:15	protects 18:22	_	receiving 7:14	Relations 4:23
problem 24:19 30:9 37:9 12:13,16 13:5 32:9 33:19 32:9 33:19 52:14 53:9 55:11 55:11 recirculation reclease 26:16 recirculation recirculation reclease 26:16 recirculation reclease 26:16 reclease 26:16 recirculation reclease 26:16 receded 2:15 16:10 remaining 19:20 REMARKS 2:3 remedial 22:17 remediation 22:20 remediation 22:20 remediation 22:20 recreate 20	11:21	provide 9:11,19		19:21 31:2,3	5:3,4
30:9 37:9 procedural 29:7 procedure 40:21 procedures 8:24	probably 43:4	9:21,25 10:4	29:5,17 31:8	44:3 46:14 52:5	relative 33:6
procedural 29:7 23:15 32:2 40:9 41:5 45:20,25 48:6,7,13 relevant 7:23 procedures 8:24 43:5,25 48:24 51:22 42:25 reclamation 8:14 10:13 11:3 proceed 9:17 provided 19:14 providing 10:7 quite 34:21 record 6:2,16 16:10 remaining 19:20 proceeding 7:19 43:21 quote/unquote 33:11 17:22 23:23 remedial 22:17 proceedings 6:1 8:23 9:9,24 11:10 13:13 R Rain 28:19,20 51:9 54:9,13 recreate 20:22 remember 44:3 51:20 process 6:13 9:20 14:7 17:8 30:7 R Rain 28:19,20 recreate 20:22 remind 13:18 54:14 remove 22:19	problem 24:19	12:13,16 13:5	32:9 33:19	52:14 53:9	55:11
procedure 40:21 40:16 41:3 42:5 45:25 46:1 reclamation 8:14 10:13 11:3 proced 9:17 provided 19:14 providing 10:7 quite 34:21 record 6:2,16 16:10 remaining 19:20 proceeding 7:19 43:21 quote 38:9,9,10 quote/unquote 33:11 quoting 33:10 24:17,22,23 remediation proceedings 6:1 8:23 9:9,24 11:10 13:13 quoting 33:10 35:23 38:17 remediation process 6:13 9:20 12:11 23:12 46:3 47:3 55:3 Rain 28:19,20 recreate 20:22 remember 44:3 40:5,11 42:25 pumpage 48:17 reised 7:14 16 recycled 47:14 remove 22:19	30:9 37:9	19:14 20:7,11	34:17,20 35:6	recirculation	release 26:16
procedures 8:24 43:5,25 48:24 51:22 42:25 14:20,23 15:15 proceed 9:17 providing 10:7 quite 34:21 quote 38:9,9,10 43:11 quote/unquote 38:9,9,10 13:19 14:17 REMARKS 2:3 proceeding 7:19 43:21 quote/unquote 33:11 33:11 24:17,22,23 7:22 23:23 remedial 22:17 proceedings 6:1 8:23 9:9,24 11:10 13:13 quoting 33:10 8:23 9:9,24 51:9 54:9,13 recreate 20:22 remember 44:3 51:20 process 6:13 9:20 46:3 47:3 55:3 pumpage 48:17 Rain 28:19,20 recreate 20:22 recreate 20:22 recreate 47:14 16 proceding 7:14 16 proceeding 7:14 16 <td>procedural 29:7</td> <td>23:15 32:2 40:9</td> <td>41:5 45:20,25</td> <td>48:6,7,13</td> <td>relevant 7:23</td>	procedural 29:7	23:15 32:2 40:9	41:5 45:20,25	48:6,7,13	relevant 7:23
proceed 9:17 provided 19:14 providing 10:7 quite 34:21 record 6:2,16 16:10 proceeding 7:19 43:21 quote 38:9,9,10 13:19 14:17 REMARKS 2:3 proceeding 7:19 43:21 quote/unquote 17:22 23:23 remedial 22:17 proceedings 6:1 8:23 9:9,24 11:10 13:13 24:17,22,23 remediation process 6:13 9:20 8:23 9:9,24 11:10 13:13 7ecreate 20:22 51:20 process 6:13 9:20 46:3 47:3 55:3 pumpage 48:17 7ecreate 20:22 remediation proceedings 6:1 46:3 47:3 55:3 pumpage 48:17 7ecreate 20:22 7ecreate 20:22 proceedings 6:1 46:3 47:3 55:3 pumpage 48:17 7ecreate 20:22 7ecreate 20:22 proceedings 6:1 46:3 47:3 55:3 pumpage 48:17 7ecreate 20:22 recreate 20:22 proceedings 6:1 46:3 47:3 55:3 pumpage 48:17 recreate 20:22 recreate 20:22 proceedings 6:1 46:3 47:3 55:3 pumpage 48:17 recreate 20:22 recreate 20:22 <td< td=""><td>procedure 40:21</td><td>40:16 41:3 42:5</td><td>45:25 46:1</td><td>reclamation</td><td>8:14 10:13 11:3</td></td<>	procedure 40:21	40:16 41:3 42:5	45:25 46:1	reclamation	8:14 10:13 11:3
proceed 9:17 providing 10:7 quite 34:21 10:16 11:4,14 remaining 19:20 proceeding 7:19 43:21 quote 38:9,9,10 13:19 14:17 REMARKS 2:3 proceeding 7:19 3:1,9 6:11 7:4 quote/unquote 33:11 24:17,22,23 remedial 22:17 proceedings 6:1 8:23 9:9,24 11:10 13:13 quoting 33:10 35:23 38:17 22:20 process 6:13 9:20 14:7 17:8 30:7 Rain 28:19,20 51:9 54:9,13 remedial 22:17 process 6:13 9:20 14:7 17:8 30:7 46:3 47:3 55:3 44:17 7recreate 20:22 remind 13:18 44:17 46:14 7recreate 20:22 7rec	procedures 8:24	43:5,25	48:24 51:22	42:25	14:20,23 15:15
14:23 30:5 provisions 8:24 quote 38:9,9,10 13:19 14:17 REMARKS 2:3 proceeding 7:19 7:21 8:14 10:8 public 1:1,11 2:5 33:11 24:17,22,23 remedial 22:17 proceedings 6:1 8:23 9:9,24 11:10 13:13 Quote 38:9,9,10 24:17,22,23 remedial 22:17 proceedings 6:1 8:23 9:9,24 11:10 13:13 Remedial 22:17 remediation 22:20 process 6:13 9:20 13:19 14:17 remediation 22:20 remember 44:3 Rain 28:19,20 recreate 20:22 recreational 37:18 54:14 40:5,11 42:25 pumpage 48:17 reised 7:14 16 recycled 47:14 remove 22:19	17:19	provided 19:14	54:5	record 6:2,16	16:10
14:23 30:5 provisions 8:24 quote 38:9,9,10 13:19 14:17 REMARKS 2:3 proceeding 7:19 43:21 quote/unquote 17:22 23:23 remedial 22:17 7:21 8:14 10:8 3:1,9 6:11 7:4 quoting 33:10 24:17,22,23 remediation proceedings 6:1 8:23 9:9,24 11:10 13:13 51:9 54:9,13 recreate 20:22 process 6:13 9:20 14:7 17:8 30:7 Rain 28:19,20 recreate 20:22 remind 13:18 21:11 23:12 46:3 47:3 55:3 pumpage 48:17 44:17 37:18 54:14 remove 22:19	proceed 9:17	_	_	1	remaining 19:20
proceeding 7:19 43:21 quote/unquote 17:22 23:23 remedial 22:17 7:21 8:14 10:8 3:1,9 6:11 7:4 33:11 24:17,22,23 remedial 22:17 proceedings 6:1 8:23 9:9,24 11:10 13:13 51:9 54:9,13 remedial 22:17 process 6:13 9:20 11:10 13:13 Rain 28:19,20 recreate 20:22 remedial 22:17 Rain 28:19,20 recreate 20:22 remedial 22:17 7:22 23:23 remedial 22:17 8:23 9:9,24 11:10 13:13 51:9 54:9,13 recreate 20:22 10:20 remedial 22:17 remedial 22:17 remedial 22:17 10:20 33:11 35:23 38:17 22:20 10:20 7:14 16 7:14 16 7:14 16 10:20 7:14 16 7:14 16 7:14 16	_		_	· ·	_
7:21 8:14 10:8 11:17 proceedings 6:1 6:14 process 6:13 9:20 21:11 23:12 40:5,11 42:25 pumpage 48:17 public 1:1,11 2:5 33:11 quoting 33:10 24:17,22,23 35:23 38:17 51:9 54:9,13 recreate 20:22 recreational 37:18 7:21 8:14 10:8 11:10 13:13 14:7 17:8 30:7 46:3 47:3 55:3 pumpage 48:17 reised 7:14 16 recycled 47:14 remove 22:19	proceeding 7:19	_		17:22 23:23	remedial 22:17
11:17 proceedings 6:1 6:14 process 6:13 9:20 21:11 23:12 40:5,11 42:25 3:1,9 6:11 7:4 8:23 9:9,24 11:10 13:13 14:7 17:8 30:7 46:3 47:3 55:3 pumpage 48:17 pumpa	•	public 1:1,11 2:5		24:17,22,23	remediation
6:14			quoting 33:10	, ,	
6:14	proceedings 6:1	8:23 9:9,24		51:9 54:9,13	remember 44:3
process 6:13 9:20 14:7 17:8 30:7 Rain 28:19,20 recreational 3:18 21:11 23:12 46:3 47:3 55:3 46:3 47:3 55:3 7:14 16		,			
21:11 23:12 46:3 47:3 55:3 raise 7:18 37:20 37:18 40:5,11 42:25 pumpage 48:17 raise 7:14 16 recycled 47:14 remove 22:19	process 6:13 9:20			recreational	remind 13:18
40:5,11 42:25 pumpage 48:17 44:17 recycled 47:14 remove 22:19	_				
1				recycled 47:14	
	· ·		raised 7:14,16	1 -	
				l	ĺ

	I			
renewed 20:12	results 25:21	20:9	38:21 41:4	41:13,22,23,23
repetition 15:5	return 15:3		seventh 7:9	42:7,8,11,16
reply 12:8,9,12	review 6:12 8:6	<u>S</u>	sewage 41:5,9	45:5
reported 36:9	12:17,20 13:1	S 28:25	42:6,11,16 45:5	slug 27:9
reporter 5:8	32:19,25 45:21	Safety 38:2	sewer 41:23	Slurry 7:10
13:19 17:9 55:1	reviewed 25:18	sake 13:20	shadows 37:21	SMCRA 36:17
55:2	41:19	Sam 28:25	shaft 48:18 50:1	soil 42:12
reporting 22:25	reviewing 21:17	satellite 50:1	sheet 33:20,21	solids 46:6,11
36:12	40:15 41:1	save 28:10	46:4	somewhat 42:15
reports 43:24	revised 7:2,7	says 33:21 51:3	shop 37:20	soon 19:22
represent 17:5	45:2	53:16	short 8:14 29:8	sorry 36:23 37:7
representing	ride 38:5	scale 43:3	shortly 18:11	41:18 42:10
17:6	right 13:14 21:12	scope 14:22	shown 13:10	sort 42:18,24
require 34:6,13	23:11,13 30:16	Scott 4:6 12:22	side 31:24	sorted 12:4
required 7:10	30:19 40:8	scott.twait@illi	Sierra 29:1	sounds 25:3
16:1	River 6:24 20:15	4:9	significant 10:14	source 26:16
requirements	20:22 29:4	second 7:9 16:17	19:8	Southern 37:22
7:24 8:5 15:25	rivers 20:10,16	22:7 25:12	similar 41:11	38:6 48:18
19:3	20:19,21 36:18	section 4:3 12:19	47:18	Sparta 1:15,17
research 37:16	Rogers 2:6 9:25	21:19,21	similarities 41:10	3:10,11
residence 46:23	17:25 18:7,12	sediment 32:6	simply 15:19	speak 15:1,2,8
residents 42:14	18:12,19 19:24	sedimentation	17:7	16:15,18,20,25
resolve 30:9	role 12:16	30:11,20,21,21	single 37:17	17:2 18:16 23:7
resolved 21:7,9	room 13:22 30:1	32:3 50:14	siphon 22:16	speaker 17:1
resolving 10:21	35:21	53:23	site 25:13,17 32:6	speaking 16:13
19:19	Rotche 2:7 20:5	sediments 22:19	34:5 40:4,12	16:19,23 17:2
resource 37:23	20:6,8 21:14,23	47:2,7,7,9	41:6,11,16,25	17:24 18:7
37:23,24 38:5	22:1,7 23:8,14	see 10:3 26:5	42:4,7,14 43:18	32:24
resources 8:10	23:18,25 24:7	29:19,23 42:4	SIU 39:13	Specialist 4:2
19:2 22:9 38:1	24:14 25:2,10	49:2 50:21	six 14:24	20:9
38:22 41:11,12	26:10,14 27:13	53:18	skip 15:8	specific 23:11
respect 13:9,10	27:16 28:9,13	seeing 23:23 24:3	Skrukrud 2:8	25:21 42:1
respond 10:13	28:15,18 38:20	24:5 31:7	28:22,23,24	44:18
response 17:21	39:8 40:2,10,19	seen 27:8	29:15 30:16	specifically 32:16
38:18 47:23	41:4 42:6,9,13	send 11:5 12:9	31:4,12,16,18	32:22
54:11	42:23 43:7,9	23:12	31:22 32:1,7	specify 12:2
responses 21:22	44:7,11,20	sent 11:22 14:9	33:8,17 34:12	spell 17:10,11
responsible 8:12	45:16,19	sentence 9:19	34:16,21 35:3,7	36:3
18:21	rough 40:4	12:16	35:10 45:23,24	spelled 12:6
responsiveness	roughly 34:20	server 11:18 12:8	47:10 48:8,11	28:24
10:10,12 15:13	40:4	service 33:5	48:14 49:4,8,14	spellings 17:11
21:22 28:3 39:7	route 47:15	Services 5:10	49:24 50:9,21	spillway 22:17
40:1,17 42:22	rules 6:14 7:25	18:13	51:13,21 52:7	spoken 35:24
43:5	run 6:14	Services-Midw	52:12,15,23	38:16
restores 18:22	R-O-G-E-R-S	10:1	53:12 54:4	Springfield 4:4,8
result 22:16	18:14	set 7:25 21:5	sleep 37:20	4:18,24 5:5
41:12 42:15	R-O-T-C-H-E	25:12 34:17	sludge 41:5,7,9,9	11:9 14:11
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

St 5:11 36:8	18:10,15 19:23	support 13:6	53:12 54:4,6,7	17:14
staff 19:2	20:1,4 21:8,24	15:19,24	54:19,20	treat 13:8 45:11
stand 20:23	22:2 23:20 24:1	supposed 30:18	thanks 32:8	48:17
standard 26:22	24:9,15 28:6,12	sure 12:5 18:18	35:11	treated 6:23 8:13
27:1 52:9	28:14,16,19,21	23:25 33:1 35:8	thereto 55:13	treating 30:22
standards 4:7	29:11 34:19,24	42:6 43:7 44:7	thick 41:13,14,14	treatment 30:8
12:23 25:24	35:4,8,12,14,18	surface 6:20	thing 26:1,2	30:21,22 32:5
26:15,23 27:22	36:1,20,24 37:3	33:22	44:14	42:1 44:24 46:6
30:25 53:7	37:5,8 38:15,19	surfaces 43:16	things 32:15	46:11 47:1
standing 39:23	44:12 45:22	suspend 30:20	50:25	50:12 51:4,8
start 6:15	54:7,12	Suzanne 35:15	think 24:2 28:3	tributaries 6:23
started 6:5 25:21	study 37:19	35:16	31:5 32:8 33:18	20:14
27:3	subdivisions	sworn 55:5	34:17 45:15,24	trucks 44:1
starting 9:25	37:17	system 6:19	53:13 54:5	try 18:16 44:2,2
state 7:25 16:8	subject 7:5 12:3	44:23 47:20,21	third 11:18	Tuesday 1:12
17:3 20:17	12:5		thought 31:6	turn 16:15
25:16 26:15	submit 11:19	<u>T</u>	till 18:8 19:25	Twait 4:6 12:22
36:2 38:3 39:22	14:14 22:19	table 39:1	time 10:11,19	12:22 27:24
50:11 55:3	23:21	take 47:2 49:2	14:4,7,10,18	34:8,13 39:4
statement 6:16	submittal 12:11	50:20 51:17	15:1,3,4 19:7	42:11,20 45:10
9:22 15:6 25:3	submitted 10:15	taken 9:22 29:24	28:7 29:10 30:3	45:18 46:19
46:9	14:6,9 24:18	39:2 40:4 41:5	32:18 33:4 35:9	48:24 49:11
statements 13:12	38:21 54:16	42:7,16 45:7	42:21 43:2,8	50:6,17 51:10
states 43:12	Subpart 9:2	55:6,11	45:21 46:23	51:15 52:3,10
44:22	substantial 45:17	talk 25:8 32:21	47:3	52:14,16 53:6
stating 15:19	substantive	40:11	Timely 43:14	two 9:19 12:16
stewardship 19:1	10:25	talked 32:15,20	times 15:12	22:19 24:23
stockpile 33:23	Subtitle 39:9,14	talking 53:2,15 talks 47:12	today 13:6 21:20	50:3
stood 37:14	Subtitles 8:2	TCLP 40:20	25:9 32:25 38:8	Tyler 2:7 20:5,6
storage 30:22	successful 37:15	Technical 4:16	tonight 6:13 10:6	20:8 21:14,23
storing 41:19	38:6	tell 40:3	10:7 11:11 13:9	21:24 22:1,7
storm 45:11	sufficient 10:19	ten 7:9 19:7	17:25 20:12	23:8,14,18,25
straight 30:23	14:10 45:9,15	tend 54:3	35:9,23	24:7,14 25:2,10
stream 31:3 52:5	47:2,6 Suite 4:13	test 27:9,9	tonight's 6:10	26:10,14 27:13
52:14 53:9		testimony 55:4,6	9:16 13:19	27:16 28:8,9,13
streams 20:19	sulfate 49:5	thank 13:7 19:22	tonnage 36:13 42:1	28:15,18 32:12 33:15 35:5
27:19 29:4	51:25 52:3 sulfates 41:16	19:23 20:6,11	·	
41:13,15 45:5 46:13	48:21 49:12	21:23 28:14,15	tons 36:6,7,8,9,9	38:19,20 39:8
Street 1:16 3:11	53:10	28:18 29:15	36:11,14 total 21:5	40:2,10,19 41:4 42:6,9,13,23
4:13 5:10	summarized	32:11 33:17	toxicity 40:21	43:7,9 44:7,11
strictly 9:10	50:22	34:16 35:10	trained 19:2	44:20 45:16,19
strives 20:18	summary 10:10	38:14,15,20	transcript 6:1	45:23
structure 30:18	10:12 15:14	39:8 40:2,19	13:21 29:10,12	typewriting 55:8
48:5	21:22 28:3 39:7	42:23 44:20	29:13 32:14	typical 53:18
Studer 4:22 6:3,6	40:1,18 42:22	45:20,22 47:10	47:22	typically 54:1
11:6 13:7 18:4	43:6	48:14 49:14	transcription	T-Y-L-E-R 20:8
11.0 15.7 10.4	13.0		- Tanscription	I I II II II II I

			I	ı
U	W	54:3	wondered 29:9	\$29 19:13
unauthorized	wages 19:12	waters 20:25	29:24 32:19,21	
22:24	want 18:17 26:2	46:14 50:11	48:18,21 52:2	0
underground	34:22 35:1	53:8	53:19	001 51:24
6:21 48:17	44:19 46:13	watershed 20:20	wondering 21:6	002 53:3
understandable	47:25	20:22	25:15 26:21	003 52:24 53:4
25:11	wanted 32:10	way 16:12 38:12	27:17,20 38:24	008 30:13,13
understanding	39:24 46:25	Wayland 2:9	39:1,19 40:3,22	46:19 47:1
34:9	51:8	18:1,2 35:25	41:18 42:16,24	009 30:18,23,25
under-reported	Ward 4:11 12:25	36:4,4,23 37:1	50:15	31:9 49:20 50:6
36:13	12:25 21:10,17	37:4,7,10	words 12:5	0146-08 39:16
Unit 4:7	23:10 28:5 30:4	ways 45:11	work 12:19,23	084-002247
units 26:9	30:17 31:11,15	web 9:7	13:1,5 37:20	55:17
University 39:13	31:17,20,23	website 9:6 29:14	38:4	
unnamed 6:23	32:4 39:21 40:7	week 29:14	workers 19:12	1 1 27 11 52 22
unquote 38:14	40:13,25 41:22	welcome 6:10	works 50:12	1 27:11 52:20
unruly 14:1	42:8,10 43:4,8	wells 25:14,21	worry 53:9	1,285,714,561
updated 52:6	43:23 44:9 48:4	26:6 27:6,8	worship 37:20	36:9,14
upstream 52:18	48:10,13 49:7	32:21	wouldn't 34:13	10 48:16 49:25
52:24 53:4	49:20,25	went 33:3,5	42:20 53:9	50:7
use 41:6 44:1	Ward's 25:3	46:20	writing 7:15	1021 4:4,8,18,24
46:25 47:4	warrant 14:3	West 1:16 3:10	14:15 23:21	5:5 11:8
USEPA 16:5	Washington 36:7	4:13 30:11,19	44:17	11 50:2,7
users 11:20	wasn't 50:22	30:24 31:11,12	written 10:7,17	11th 5:10
utilization 41:7	51:5	31:13,20,24	11:5 14:4,6	114 1:16 3:10
utilize 19:1	waste 22:14 26:8	49:22	16:14	116 4:13
utilized 40:24	39:12 40:22	wetlands 38:21	www.ipcb.stat	12 21:2 49:17
43:2,15	41:8 43:13,20	38:23,25 39:5	9:6	50:2,7
43.2,13	45:5,7	51:4	W-A-Y-L-A-N	14C 43:11
V	wastewater 6:23	wetting 43:15	36:5	140 49:12
values 25:22,23	7:11 8:13 45:12	we'll 35:1,1,9		15 29:21 34:2
49:10	watch 6:4	we're 6:4 24:10	Y	46:3
variability 26:5	water 1:1 3:1 4:3	24:10 25:8	yeah 22:1 24:14	15th 10:17,20
Various 33:21	4:7,12,17 6:9	35:20 36:18	24:15 28:12,16	12:1 14:8,12
vegetated 46:21	7:21,25 12:20	37:5,8 47:4,5	31:5 34:24 36:1	54:16,17
verbatim 13:19	12:23,23 16:10	we've 24:15,16	42:11 43:9	15-day 29:8
vicinity 27:11	16:11 20:9,14	27:25 28:3,6	50:21	150 36:17
violation 22:20	20:24 22:15	29:8,11 33:13	years 19:7 29:21	160 22:12
22:24,25 23:9	25:13,23 27:22	34:25,25 39:5	34:2 36:12,17	166 9:1
23:15,16 25:7	28:25 29:4 30:8	45:13	36:19 37:12	175 49:13
violations 22:10		Wildlife 20:17	yelled 37:6,9	18 2:6
22:23 23:3,6,22	30:14,15,18,22 30:25 31:1,2,10	Willhite 6:10	yield 37:15	180 37:12
24:8 25:4		willing 34:22		1882 36:10
virtually 44:13	39:1 44:1 45:3	49:9	Z	19276 11:9
Vision 41:10	45:11 46:25	Wilson 35:12,13	zones 38:23	
volume 22:14	47:4,13 48:6,19	wind 43:16	ф	2
Volume 22.17	48:22 49:23	witness 55:4,6	\$	2 26:23 27:7
	52:9,25 53:4,7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

	•	•	i	•
40:14 53:3	367,370,806 36:8	9		
2nd 22:21		9 32:18 33:4 46:7		
20/38 2:7	4	46:10 49:16		
2000 29:21	4 22:17 26:15,25	99 15:12		
2001 29:18	27:6 32:18 33:2	993-7200 4:14		
2005 19:6	401 7:21	773-1200 4.14		
2008 39:18	426 38:22 39:9			
2008-MW-0146				
39:15	5			
2010 49:1	5 7:10 11:7 39:3			
2011 7:2,16	47:12 50:5			
25:14 29:22	5th 7:22			
30:6 32:14 33:6	50 36:12,19			
47:19 48:19	500 52:8			
51:25 52:2	505 55:18			
2012 44:25 45:8	524-3038 5:6			
45:13	53 22:12			
2013 36:10 39:18	54 2:11			
2014 22:21 23:1	554,379,228 36:7			
2015 1:12 3:9 7:4	558-2012 4:9			
7:22 10:17,20	558-8280 4:25			
12:1 14:8,12	56 52:20			
217 4:9,19,25 5:6	6			
217) 785-4787 4:5	6 2:4 3:9			
23 53:14	6:00 1:12 6:2,3			
2309 4:13	618 4:14			
236 19:11,18	62286 1:17			
25th 23:1	62702 4:24			
26794-9276 11:9	62794 4:4,8,18			
27th 39:18	5:5			
28th 44:25	62959 4:13			
29/45 2:8	63101 5:11			
296,604,664 36:6	67,359,863 36:8			
3	7			
3 40:14 52:8	7th 7:4			
30 49:12	7:09 3:10 54:21			
309.115 9:4	711 5:10			
309.119 9:4	782-5544 4:19			
31 1:12				
31st 3:9 39:18	8			
314-644-2191	8 21:6 22:15			
5:11	27:15 46:7,10			
32 53:17,21,24,25	47:24			
53:25	8th 7:1			
35 8:1 9:1,3	8161-00 43:12			
36 2:9				
	I	I	<u> </u>	<u> </u>