

In The Matter Of:
PARKS E-4 LIVESTOCK FACILITY

PUBLIC HEARING
August 8, 2019

Area Wide Reporting and Video Conferencing
www.areawide.net
scheduling@areawide.net
301 W. White Street
Champaign, IL 61820

Original File 0806CBOAR.txt

Min-U-Script® with Word Index

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

PARKS E-4 LIVESTOCK FACILITY

STOCKLAND, IL - IROQUOIS COUNTY

August 6th, 2019, 6:00 PM

**County Administration Center/County Board Room
1001 East Grant Street, Watseka, IL**

PUBLIC HEARING

Reported By:

**Deann K. Parkinson: CSR 84-002089
Area Wide Reporting & Video Conferencing
301 West White
Champaign, Illinois 61820
(800)747-6789**

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

INDEX

Introduction by Albert Coll.....page 3

Comments by Warren Goetsch.....page 8

Presentation by Chris West.....page 16

Question and Answer Session.....page 38

Oral sworn testimony.....page 52

EXHIBITS

Exhibit No. 1.....page 14
(Parks E4 document)

Exhibit No. 2.....page 15
(power point LMFA documents)

Exhibit No. 3.....page 37
(power point demonstration with USB)

Exhibit No. 4.....page 51
(Public questions submitted by Mark Tweedy)

Exhibit No. 5.....page 73
(Oral testimony sign-in sheet)

Exhibit No. 6.....page 73
(Attendance sign-in sheet)

PUBLIC HEARING

3

1 MR. COLL: Good evening. On behalf of
2 John Sullivan, the director of the Illinois
3 Department of Agriculture, we thank you very much
4 for the invitation to come to Iroquois County this
5 evening.

6 My name is Albert Coll, and I am with
7 the Illinois Department of Agriculture. And I
8 will be serving as a hearing officer for tonight's
9 public informational meeting.

10 Also with me on behalf of the department
11 is Rosario Johnstone, manager of the bureau's
12 technical services and pesticide laboratory
13 section.

14 This meeting is being conducted pursuant
15 to Section 12 of the Livestock Management
16 Facilities Act. The informational meeting is
17 being held at the request of the Iroquois County
18 Board, and is to afford members of the public an
19 opportunity to ask questions and present oral and
20 written testimony regarding the proposed
21 construction of a new, 1,800 animal unit swine
22 facility by Parks Livestock.

23 My task this evening is to ensure that
24 this meeting is conducted in an orderly fashion,

PUBLIC HEARING

4

1 and to ensure that all comments and testimony
2 received are entered into the record.

3 Tonight's meeting is being transcribed.
4 The transcription of the meeting will be sent to
5 the Iroquois County Board, as well as used by the
6 Illinois Department of Agriculture in making its
7 determination regarding the proposed construction
8 of this facility.

9 In order to ensure that we have an
10 orderly process, I will quickly explain how the
11 meeting will proceed this evening. First,
12 following my comments, Rosario Johnstone will
13 provide an overview of the provisions of the
14 livestock --

15 (Brief discussion off the record.)

16 First, following my comments, Warren
17 Goetsch will provide an overview of the provisions
18 of the Livestock Management Facilities Act as it
19 relates to this particular project. Warren is a
20 deputy director at the Illinois Department of
21 Agriculture.

22 He will specifically outline the current
23 status of the project and how the process will
24 proceed following this meeting. Following Mr.

PUBLIC HEARING

5

1 Goetsch, representatives of the proposed
2 construction project will be given an opportunity
3 to describe the project and demonstrate how they
4 believe it meets the siting criteria of the
5 Livestock Management Facilities Act.

6 After their presentation, I will open
7 the meeting to questions. Anyone wishing to ask
8 questions of the facility representatives or of
9 the Department of Agriculture will be given an
10 opportunity to do so.

11 During the question and answer session,
12 I will ask that you state your name, spell your
13 last name for the benefit of the court reporter.
14 You then may ask your question. Depending on the
15 number of people who wish to testify in the oral
16 testimony phase of the meeting, which is after the
17 question phase, there may be a time limit placed
18 on the questioning phase.

19 Following the questioning and answer
20 phase, I will ask for written testimony. If
21 anyone has written testimony that is not part of
22 your oral testimony, I will accept it and enter it
23 into the record for this proceeding.

24 If you have written material that you

PUBLIC HEARING

6

1 will be using as part of your oral testimony, it
2 can be entered into the record following your oral
3 testimony.

4 Then, depending on the amount of time
5 that has elapsed at this point in the meeting, we
6 may take a short break. Following the written
7 testimony, I will ask for oral testimony from the
8 public. Sign in sheets were placed at the door as
9 you came in. One sheet for attendance and a
10 second sheet for testimony.

11 People who wish to provide comments
12 during this oral testimony phase are asked to sign
13 the oral testimony sheet. People providing oral
14 comments will be sworn in. Each person will be
15 given three minutes to provide his or her
16 comments. Legal counsel speaking on behalf of
17 multiple clients will be given a total of 15
18 minutes for all clients, and will be asked to
19 state the name of all persons on whose benefit or
20 behalf he or she is speaking. Deferring time to
21 other speakers will not be allowed. If you sign
22 the oral testimony sheet, you may either speak, or
23 if you have changed your mind, you may pass. You
24 may not give your time to someone else.

PUBLIC HEARING

7

1 The meeting will then conclude with
2 closing comments from the facility and the
3 Illinois Department of Agriculture.

4 So just to summarize, tonight we will
5 have comments from the Department, comments from
6 the facility, questions directed to the facility
7 or the Department, and at that time remember to
8 state your name and spell your last name. Written
9 testimony will be accepted. Oral testimony from
10 the public. And if you come up to speak, you will
11 be sworn in. And then closing comments.

12 Please keep in mind that we are not here
13 this evening to discuss or debate the merits or
14 perceived inadequacies of the existing regulations
15 or laws. We are here tonight to receive
16 information on this particular proposed livestock
17 facility, and to assist with determining
18 compliance with the existing regulations.

19 This is a public informational meeting,
20 not a court proceeding. The purpose is to share
21 information and to provide an opportunity for the
22 Department, members of the county board, and you,
23 the public, to learn about this proposed facility.

24 Again, we very much appreciate your

PUBLIC HEARING

8

1 hospitality for inviting us here tonight to
2 consider the proposed construction of the Parks
3 E4 swine facility. Please remember to confine
4 your comments and questions to that subject as we
5 continue.

6 And now I'd like to invite any members
7 of the county board to make comments if they so
8 choose to do so. (None made.)

9 And now I'd like to turn the proceedings
10 over to Deputy Director Warren Goetsch for the
11 remarks from the Illinois Department of
12 Agriculture.

13 MR. GOETSCH: Good evening. As was just
14 stated, my name is Warren Goetsch. I currently
15 serve as the deputy director of the Illinois
16 Department of Agriculture. One of our
17 responsibilities at the Department is the
18 administration of various provisions of the
19 Livestock Management Facilities Act.

20 On behalf of the Department, I'd like to
21 welcome you to this evening's public informational
22 meeting. Before we hear from the proposed
23 facility's representatives, I would like to say a
24 few words regarding the applicable provisions of

PUBLIC HEARING

9

1 the Livestock Management Facilities Act, and the
2 current status of this proposed project.

3 The Livestock Management Facilities Act
4 was originally passed and became law on May 21st
5 of 1996. Since that time, the Act has been
6 amended seven times, three of which have been
7 substantive.

8 The Act can be generally described as
9 covering five major areas. Those being, facility
10 design standards, waste management planning
11 requirements, facility operator training and
12 testing, anaerobic lagoon financial responsibility
13 demonstration, and facility setback requirements.

14 Each of these provisions impacts various
15 types of facilities in different ways, depending
16 upon their size, expressed in annual units, and
17 whether the proposed facility is considered as a
18 new facility, a modified facility, or the
19 expansion of an existing site.

20 The Livestock Management Facilities Act
21 provisions are quite complicated, and specific
22 facility designs and situations certainly can
23 differ. It is, however, the Department's
24 intention to always fairly and equitably apply

PUBLIC HEARING

10

1 these regulations to the livestock industry in
2 this state.

3 Now, regarding the current status of
4 this project, the Department received a formal
5 notice of intent to construct application for the
6 proposed construction of a swine facility on June
7 10th of 2019. The proposed project is to consist
8 of the construction of one, 108 foot -- or excuse
9 me, 101 feet 8 inch by 341 feet swine finishing
10 building with concrete slats and an 8 foot deep
11 underbuilding concrete livestock waste holding
12 structure.

13 The project is proposed to be located
14 approximately one and a quarter miles east of
15 Stockland, Illinois, in southeastern Iroquois
16 County.

17 The application was submitted by Parks
18 Livestock. The maximum design capacity of the
19 proposed facility is 1,800 animal units, or 4,500
20 head of swine greater than 55 pounds.

21 As I mentioned earlier, the Department
22 received the notice of intent to construct
23 application on June 10th, and reviewed it for
24 compliance with the applicable provisions of the

PUBLIC HEARING

11

1 Act.

2 On June 24th the Department determined
3 that the notice was complete, and forwarded a copy
4 of the completed application to the Iroquois
5 County Board.

6 Notice of that application was also
7 published in the appropriate newspaper. The
8 design capacity of the proposed facility requires
9 compliance with a residential setback distance of
10 not less than 1,320 feet, and a populated area
11 setback distance of not less than 2,640 feet.

12 On July 16th, the Department received
13 official notice from the Iroquois County Board
14 requesting that a public informational meeting be
15 scheduled regarding the proposal. After further
16 consultation with the County Board, the Department
17 scheduled this meeting, and caused notice of the
18 meeting to again be published in the appropriate
19 newspapers.

20 An additional requirement of the
21 Livestock Management Facilities Act deals with the
22 design and construction plans of the livestock
23 waste handling facility. The Department has
24 received a formal submittal of detailed

PUBLIC HEARING

12

1 engineering design plans and specifications for
2 the proposed project's underbuilding livestock
3 waste handling facility.

4 However, a detailed review of the
5 aforementioned plans has not been completed at
6 this time. As such, the Department is currently
7 unable to comment as to their level of compliance
8 with the statutory requirements of the Act.

9 We are here this evening to receive
10 testimony regarding the proposed livestock
11 management facility's compliance with the eight
12 siting criteria as defined in Section 12,
13 paragraph (d) of the Livestock Management
14 Facilities Act. In general, information regarding
15 the following would be appropriate for this
16 evening's meeting.

17 Manure management planning. Potential
18 impact of the proposed facility on the surrounding
19 area's character. Whether the proposed facility
20 is located within any floodplains or other
21 sensitive areas. Odor control plans. Possible
22 impact of the proposed facility on existing area
23 traffic patterns. And possible impact of the
24 proposed facility on community growth, tourism and

PUBLIC HEARING

13

1 recreation or economic development of the area.

2 Copies of the specific criteria were
3 available on the table with the sign in sheets.
4 These documents I believe were out there. If
5 anyone didn't get a copy, and would like one, if
6 you would just hold up your hand, we will make
7 sure that you receive a copy.

8 Finally, the process that will be
9 followed after this evening's meeting is as
10 follows: The County Board will have up to 30
11 business days from today's meeting to submit to
12 the Department a nonbinding recommendation
13 relative to the proposed siting of this facility.
14 Thus, a recommendation from the Iroquois County
15 Board is due at the Department on or before
16 September 18th, 2019.

17 After the close of the county's 30
18 business days comments' period, the Department
19 will have 15 calendar days or until October 3rd to
20 review all of the information submitted to date,
21 including the notice of intent to construct, the
22 construction plans, transcripts from this
23 evening's meeting, the County Board's
24 recommendation, and any other additional

PUBLIC HEARING

14

1 information submitted by the owners at the request
2 of the Department.

3 Based on that review, the Department
4 will determine whether the eight siting criteria
5 have been met. Once that determination has been
6 made, the Department will notify both the County
7 Board and the applicant of the Department's
8 decision.

9 Mr. Hearing Officer, at this time I
10 would like to submit the completed notice of
11 intent to construct application and its associated
12 correspondence file for formal entry into the
13 record as an exhibit. I would also like to
14 present a copy of the power point presentation for
15 an exhibit as well. This concludes my formal
16 remarks.

17 Again, thank you for your attention, and
18 I look forward to hearing your comments regarding
19 the proposal, and I will now turn the meeting back
20 to the hearing officer.

21 MR. COLL: Thank you, Mr. Goetsch.
22 Entered into the record as Exhibit 1 is the
23 completed notice of intent to construct, including
24 correspondence between the Department and the

PUBLIC HEARING

15

1 applicant. Notices of the public informational
2 meeting, and correspondence with the Iroquois
3 County officials.

4 Also entered into the record as Exhibit
5 No. 2 is the department's power point
6 presentation.

7 At this time, we will hear comments from
8 the facility. Before we begin, for those who will
9 be presenting information, please state your name
10 and spell your last name for the court reporter.
11 And then I will swear you in all together.

12 MR. JAMES: Hi, my name is David James.
13 I work with the Parks companies. The Parks
14 companies are based --

15 MR. WEST: You want to swear us in
16 first?

17 MR. COLL: Can you please spell your
18 last name?

19 MR. JAMES: J-A-M-E-S.

20 MR. WEST: Chris West. W-E-S-T.

21 MR. COLL: Will you have anyone else be
22 speaking?

23 MR. JAMES: No.

24 MR. COLL: At this time I would like to

PUBLIC HEARING

16

1 swear you in.

2 (Witnesses sworn.)

3 MR. COLL: You may proceed with your
4 testimony.

5 MR. JAMES: Hi, I'm David James. I work
6 with the Parks companies. We're a Danville based
7 company, it's a family owned company. We have hog
8 facilities in Iowa, Missouri, and here in
9 Illinois, and with our Parks finishing E4, which
10 we're looking to build outside of Stockland.

11 I'm going to turn it over to Chris West,
12 who is our consulting engineer, and he's going to
13 talk about the siting criteria.

14 MR. WEST: Good evening everyone. As
15 Mr. James mentioned, I am Chris West. I am
16 president of Frank & West Environmental Engineers
17 out of Springfield. First of all, can everyone
18 hear me okay? Great. I usually don't have a
19 problem speaking too loud.

20 So, this evening, what I'm going to do
21 is do a quick overview of the proposed farm, and
22 then go through each of the eight siting criteria
23 and show how the farm meets or exceeds those
24 requirements.

PUBLIC HEARING

17

1 So, when we have, we show an overview of
2 the area east of Stockland. And you see the
3 yellow pin there is where the proposed barn would
4 be located. And then an overview showing the
5 dimensions of the proposed barn.

6 As Mr. Goetsch mentioned, 101 feet 8
7 inches wide by 341 feet long. And I will get into
8 more of the barn and how it's constructed here in
9 just a little bit.

10 But, what I would also like to do, the
11 biggest part of this tonight will be going through
12 each of the eight siting criteria.

13 So, number one, the registration and
14 certification requirements. Two, design, location
15 and operation standards. Location compatibility.
16 Floodplain and aquifer protection. Minimize
17 environmental impact. Odor control and or
18 reduction. Traffic patterns that minimize
19 impacts. And is the facility consistent with area
20 development.

21 So starting with number one, each of
22 these will likely have a couple of different parts
23 to it. So we're going to go through each one of
24 these one by one and let you know how we believe

PUBLIC HEARING

18

1 the barn has met those requirements.

2 Registration and certification
3 requirements. Whether the registration and
4 livestock waste management plan certification
5 requirements, if required, are met by the notice
6 of intent to construct. As Mr. Goetsch mentioned,
7 we filed the notice of intent with the Department
8 of Ag July 10th of this year and it was deemed
9 complete June 4th -- I'm sorry, June 10th, not
10 July 10th. June 10th, and then deemed complete
11 June 24th of this year. Nutrient management plan,
12 which is a very important part of any livestock
13 farm in Illinois and throughout the Midwest.

14 But, according to the Livestock
15 Management Facilities Act, any farm which exceeds
16 1,000 animal units, but has less than 5,000 animal
17 units, shall prepare, maintain and implement a
18 nutrient management plan within 60 working days
19 after commencing operation.

20 So, one of the important things to
21 notice here, to note, is I mentioned a nutrient
22 management plan. So what we will actually be
23 writing is a comprehensive nutrient management
24 plan.

PUBLIC HEARING

19

1 So, what that does, it provides a lot
2 more information, a lot more detail than what's
3 required in the actual nutrient management plan.
4 A comprehensive plan is a very large document that
5 goes through specific site information for the
6 farm, and provides us with application rates so
7 that we can apply that manure in a sound fashion.

8 The farm will submit to the Department
9 of Agriculture a certification form certifying
10 that the nutrient management plan has been
11 prepared. The farm will keep that comprehensive
12 nutrient management plan as well as all records of
13 livestock application and disposal on the farm on
14 file at the farm. And that plan will be available
15 and all records for the Department of Ag upon
16 inspection.

17 The goal of any comprehensive nutrient
18 management planning is to utilize the manure at
19 approved agronomic loading rates that meet the
20 needs of the locally grown crops in an
21 environmentally sound fashion. This goal will be
22 accomplished by developing this comprehensive
23 nutrient management plan.

24 So, that plan will include the total

PUBLIC HEARING

20

1 annual manure volume calculations. So we
2 determine how much manure will be produced on this
3 farm during the first year. Historically proven
4 yields in the application area.

5 So we take the fields where we're
6 planning on putting this manure, and we look at
7 proven yields for those, whether that be corn
8 crops, bean crops or whatever that crop is, we
9 look at historically proven yields so that we can
10 then, in addition to an analysis of that manure,
11 so we take that manure once it's in the pit, we
12 take a sample of it, send it to a lab, then we can
13 know exactly what the nutrient value is of that.
14 Then that will allow us to calculate between the
15 yields, the yield data, and then the manure
16 calculations will allow us to calculate what we
17 call the agronomic loading rates of manure. So,
18 how much manure we can put on that field to best
19 be utilized by that crop.

20 Also in the plan will be provisions for
21 setback and incorporation standards. And then
22 documentation of all phases of the plan. So
23 record keeping is an essential part of that.

24 So, continuing on with siting criteria

PUBLIC HEARING

21

1 two; I'm sorry, this is siting criteria two,
2 excuse me. Whether the design, location or
3 proposed operation will protect the environment by
4 being consistent with the Livestock Management
5 Facilities Act. So now we're getting into the
6 design of the structure.

7 So, within the LMFA, the Livestock
8 Management Facilities Act, we have some guidelines
9 that we're required to design with. So, our
10 design will be according to standards that are
11 within the Midwest Plan Service, Concrete Manure
12 Storage Handbook guidance. So the Midwest Plan
13 Service is a University-based publishing
14 cooperative dedicated to publishing and
15 disseminating research based and peer reviewed
16 publications.

17 So, within these, we're talking about
18 concrete specifications, reenforcement
19 requirements, water stop requirements.

20 So the design for this farm, as Mr.
21 Goetsch mentioned as well, is one finishing barn.
22 So this is an example of what that barn could look
23 like. This is a finishing barn of similar size
24 here in Illinois. This would be an inside view of

PUBLIC HEARING

22

1 that same barn. So if you've never been inside
2 one of these, that's a really good example of what
3 one would look like. Typical cross-section. So,
4 if you take that barn and cut it in half across
5 the width of that barn, this is what we're talking
6 about.

7 So, we have the roof line. We have the
8 flooring that the animals will be on. And then we
9 have the eight foot section below that, that's
10 where all the manure is stored. So all the manure
11 is stored within the building. Nothing goes
12 outside. It's all stored within that reenforced
13 concrete pit under the floor.

14 So, another part of siting criteria two
15 is the location. Whether the location and setback
16 distances have been met. All of those setback
17 distances are outlined within the Act. So we're
18 talking about an occupied residence setback. A
19 populated area. Both of those were met and
20 exceeded, as Mr. Goetsch mentioned. The notice of
21 intent and the setbacks in particular were deemed
22 complete by the Department in June of this year.

23 Proposed operation. Another requirement
24 that the farm has is the farm manager of the farm

PUBLIC HEARING

23

1 will be a certified livestock manager. So there
2 has to be someone at the farm that meets this
3 requirement. A certified livestock manager. So,
4 what is that? What does that mean?

5 The Department of Ag has a program that
6 was developed to educate livestock managers on the
7 manure management handling and their systems. The
8 managers of farms over 1,000 animal units, which
9 then one would qualify for that, are required to
10 attend a training course and pass an exam by the
11 Department of Agriculture. As well as the waste
12 management plan. That is a critical part of the
13 operation of the farm.

14 And that plan, as I mentioned, and I'm
15 going to go into this in a little more detail
16 again, but it cites specific data. So that plan
17 is for this farm and this farm alone. So, the
18 manure will be tested from this barn. The acres
19 that will be -- that manure will be applied on
20 will have the yields from those fields. So
21 everything in that plan will be from this farm
22 alone.

23 Siting criteria three, whether the
24 location minimizes any incompatibility with the

PUBLIC HEARING

24

1 surrounding area by being zoned for agriculture,
2 whether the county has zoning, or if the county is
3 not zoned, the setback requirements established by
4 the Act have been complied with.

5 So, Iroquois County is zoned for
6 agriculture. So the farm is compatible with the
7 surrounding area in that the area is a rural
8 agriculture area. And this map, so the green
9 counties are zoned. The red counties are not.
10 This comes from the Illinois Association of Zoning
11 Officials.

12 Setbacks. So, 4,500 animals at greater
13 than 55 pounds is equal to 1,800 animal units. So
14 when we talk about that 1,000 animal unit
15 threshold earlier, this is -- that's where we get,
16 that's where that calculation is arrived from.

17 So the setbacks are two that we are
18 required to look into. The occupied residence is
19 1,320 feet or a quarter of a mile. Populated
20 areas, 2,640 feet or one half of a mile. Both of
21 those have been exceeded.

22 Siting criteria four, floodplain and
23 aquifer. Whether the farm is located within 100
24 year floodplain or an otherwise environmental

PUBLIC HEARING

25

1 sensitive area known as an area of karst or with
2 aquifer material within five feet of the bottom of
3 the livestock waste handling facility. And
4 whether construction standards set forth within
5 the notice of intent are consistent with the goal
6 of protecting the safety of the area.

7 So here is a floodplain map from FEMA.
8 So if we look in the top right-hand corner you
9 will see this blue hatching. And then we show the
10 area where the building will go. If -- this is
11 not within a 100 year floodplain. If it was, this
12 whole area here would be hatched with a really
13 bright blue, so it would be really easy to see.
14 There's nothing there, which just means that it's
15 not within the hundred year floodplain.

16 Karst area. An area with a land surface
17 containing sinkholes, springs, disruptive land
18 drainage or underground systems associated with
19 karstified carbonate bed rock. There's a long,
20 long definition for this, and what this means.
21 Basically what we're talking about are areas below
22 the surface that are open.

23 So, if you look at this map, here we see
24 up in the northwest corner of the state, the

PUBLIC HEARING

26

1 western corner of the state, and then Southern
2 Illinois. So, all of these have geological
3 formations that have caves, open areas, those are
4 considered karst areas. And this map is from the
5 Illinois State Geological Survey. And you can see
6 the whole county, there's no karst area within the
7 whole county.

8 Aquifer material. By definition, that
9 is sandstone that is five feet or more in
10 thickness or fractured carbonate that is ten feet
11 or more in thickness or sand and gravel or sand
12 and gravel mixture such that there is at least two
13 feet present within any five foot section of a
14 soil boring.

15 So as part of our requirements for
16 proposing and obtaining an approval from the
17 Department of Agriculture, we're required to go
18 out and do soil borings within the footprint of
19 the barn to look at, to find the consistency, to
20 find out what we're actually dealing with as far
21 as soil types within and below the bottom of that
22 building.

23 So the requirements are that we do a --
24 conduct a soil boring within the footprint, and

PUBLIC HEARING

27

1 then we go at least five foot below the proposed
2 bottom of that pit. So, again the cross-section
3 across the width of that barn, and then you can
4 see this. So you can see we have an 11 foot
5 boring, that puts us roughly five foot below the
6 bottom.

7 Siting criteria five. Whether the owner
8 and operator has submitted plans for operation
9 that minimize the likelihood of any environmental
10 damage to the surrounding area from spills, runoff
11 and or leaching.

12 So there's a couple of really important
13 concepts here when we're talking about spills and
14 so forth. Number one is proper sizing. The Act
15 requires that any farm that's going to be storing
16 liquid manure hold the minimum of 150 days of
17 storage. This farm will have in excess of 365
18 days.

19 Why is that important? It's very
20 important because this year is a prime example of
21 that. When we have a really, really wet spring,
22 or you have a really, really wet fall or a late
23 fall with crops, 150 day storage means every 150
24 days you're applying manure. If you have more

PUBLIC HEARING

28

1 than a year's worth of storage, you have the
2 ability to skip a season, an application time
3 frame, if you have to. You can still do twice a
4 year if you need, if you want.

5 But, if you have a wet spring and you
6 can't get out there in the spring, then you have
7 plenty of time to wait until fall to do that
8 without any issues or potential for running over.

9 Speaking of that, this is a closed
10 system. So, the animals are in the barn. The
11 manure is in the barn. The manure is not outside
12 the barn at the farm. So, there's no uncontrolled
13 release of livestock manure.

14 So, what does that mean? What is the
15 uncontrolled release? The only release, the only
16 time the manure is outside of that barn is when we
17 are putting it on those farm fields. That's the
18 only time. And that's done according to that
19 comprehensive nutrient management plan at rates
20 that the crops can use it as fertilized.

21 Runoff. So, sometimes this can be kind
22 of a hot topic with livestock. And let me
23 reiterate this again, these animals are inside the
24 barn. So there's no issues with runoff here. All

PUBLIC HEARING

29

1 clean water diversions will be put in place that
2 will allow for rain water to be directed away from
3 the barn. We want the rain water to go away from
4 the barn and not come toward the barn for multiple
5 reasons. We don't want any clean water getting
6 into the pits. We also don't want, as an
7 engineer, I don't want all that water coming and
8 putting excess pressure on my barn.

9 So, there's multiple reasons for us to
10 take that clean water, the rain water, and divert
11 it away from the barns.

12 Leaching. So this farm is designed as
13 to prevent any release of livestock manure. We do
14 that through construction methods. We use solid
15 concrete construction reenforced with grade 60
16 steel rebar. Waterstop will be placed in all
17 construction and stoppage joints.

18 So if you're not familiar with that
19 term, if we have a joint in the wall, so we have
20 one pour and we stop and we have another pour the
21 next day or two days later, we place a membrane at
22 the end of that first pour. So, so many inches of
23 that membrane are in the first pour. So many
24 inches are in the second pour. So that allows

PUBLIC HEARING

30

1 that joint to operate as it should from a
2 construction and design point of view while
3 maintaining that watertight construction.

4 All surfaces in contact with livestock
5 manure will meet the required permeability
6 standards that are set forth within the Act.

7 Siting criteria six. Odor control and
8 or reduction. Whether the odor control plans are
9 reasonable and incorporate reasonable or
10 innovative odor reduction technologies given the
11 current state of such technologies.

12 So, the farm will implement a
13 comprehensive odor control plan. The controlled
14 land application of manure, routine maintenance,
15 feed management and location.

16 So the controlled application of manure,
17 so what we're talking about here is when we're
18 taking that manure out of the field in the fall,
19 or I'm sorry, out of the pit in the fall, and
20 placing it on the field, we're injecting that
21 manure. So that manure is not broadcast out on
22 the top. It is placed in the root zone in those
23 fields. So it's placed directly into the soil,
24 based on nitrogen and phosphorus loading rates

PUBLIC HEARING

31

1 based from actual site data.

2 So, again, we're taking those samples
3 from the manure pit, we're having those analyzed
4 and we're finding out how much nitrogen and
5 phosphorus is in there and what that crops needs.
6 And then we're applying it at that rate within the
7 root zone. That way that crop can use that and
8 have -- that material can be readily accessible to
9 the crops.

10 This farm will -- intends to utilize
11 injection as the application method for livestock
12 manure. So by placing it directly into the soil
13 you're minimizing air contact. When you take away
14 that air issue, then you take away one of the
15 largest components for odor during application
16 season. Injection is widely accepted as the best
17 available technology or manure application in the
18 US.

19 All livestock manure will be applied by
20 custom applicator. So what this means is, they
21 will require someone, or someone, whoever is doing
22 the manure application, that is their job; that
23 they are paid to do that. So, they are experts in
24 the application of manure. Their application

PUBLIC HEARING

32

1 equipment will contain safety controls, such as
2 continual visual monitoring, emergency shutoffs in
3 the cab, and communication between personnel
4 throughout the system, whether they are on the
5 pumping end or the application end.

6 So, a couple of examples of what an
7 injection system could look like. So here's a
8 manure tanker with an injection reel behind it and
9 another one. And then a drag line system. So,
10 those are all different types of systems that
11 utilize injection for the manure application.

12 The farm has approximately 1,080 acres
13 locally available for livestock manure
14 application. Utilizing local yields with area
15 soil types, it's anticipated the farm would
16 utilize approximately four to five hundred acres
17 on a corn/corn rotation. That's a little bit
18 misleading because it can be significantly less.
19 It can be more. That's when we get into the site
20 specific data, because this is based on book
21 values; because we don't have an example, a
22 sample, of that manure yet. Obviously the barn is
23 not up.

24 So, what we are required to do to come

PUBLIC HEARING

33

1 up with this number is to use a book value. Well,
2 those book values are older. They're not based on
3 current feed rations, current feeding techniques,
4 current operating techniques.

5 So, we're in the ball park. But when we
6 write, when the manure management plan is up and
7 running, then we will have an exact number of how
8 many acres are not only available, but how much
9 will be used by this farm.

10 Regular maintenance; another really
11 important aspect of our odor control plan.
12 Regular maintenance; cleaning minimizes dust
13 originating from the farm. Regular maintenance
14 will also include routine visual walk-throughs of
15 the barn to insure there is no manure buildup
16 above the floor and walkways, and then the regular
17 cleaning of fans to prevent the accumulation of
18 dust.

19 Between each cycle in the farm, the barn
20 would be pressure washed and sanitized. This
21 again minimizes the odor, the amount of odor
22 causing particles that are able to leave the farm
23 through ventilation fans. The farm will ensure
24 that the building's fans operate efficiently,

PUBLIC HEARING

34

1 again minimizing dust buildup. That's important
2 because the odor has to have a carrier. So that
3 carrier is typically dust particles. So if you
4 remove that aspect, then we can reduce the odor
5 emanating from the farm. Regular maintenance is
6 known to reduce odor concentrations and intensity.

7 Another important part of this is diet.
8 The farm will incorporate an annual diet
9 formulated to allow the most efficient utilization
10 of proteins and other nutrients in the field.
11 This aids in the reduction of overall odors from
12 the farm by reducing excess nutrients excreted by
13 the animals. It's in the farm's best interests to
14 make that feed ration the most efficient ration
15 possible. So, we want every bit of that goes in
16 to be utilized by that animal. The less that
17 comes out, then the less odor particles, odor
18 causing particles, that you have.

19 Odor control plan as well; location.
20 The farm complies with and exceeds facility
21 setback distances as established by the Act. And
22 then we have the two setbacks. The residential
23 setback was exceeded by 1,810 feet. So more than
24 double. The populated area setback was exceeded

PUBLIC HEARING

35

1 by 3,960 feet. So, also well more than double
2 there.

3 So any comprehensive nutrient odor
4 control plan, farm location and maintenance,
5 proper nutrition and the injection of the manure
6 from the barn. The farm has diligently planned an
7 overall odor control strategy by incorporating
8 numerous odor control techniques and technologies.

9 The farm will also look for and
10 incorporate other technologies as they become
11 available. This strategic plan incorporates
12 reasonable and innovative technologies that will
13 allow the facility to operate with minimal odor
14 impact to the surrounding area.

15 Siting criteria seven. Traffic
16 patterns. Whether the traffic patterns minimize
17 the effect on existing traffic flows.

18 So again, what we have here is an aerial
19 view showing the location of the barn. And then
20 the anticipated traffic pattern from the farm
21 would be directly east over to Route 41 there in
22 Indiana. So, there's back and forth from -- that
23 would be the anticipated travel pattern, excuse
24 me.

PUBLIC HEARING

36

1 So, what we do is then we contact the
2 Illinois Department of Transportation and get the
3 traffic numbers on that section of the road where
4 the farm trucks will be. The Department of
5 Transportation gave us a weekly average of 1,225
6 vehicles that are on that section of the road.
7 The farm will average three trucks weekly. And
8 that's feed, transportation and animal
9 transportation trucks.

10 So throughout the year, three trucks a
11 week is what would be the average. That consists
12 of less than .25 percent of the average weekly
13 vehicle traffic on that county road 880 north
14 between the farm and the Indiana state line. And
15 again, all that data comes from the Illinois
16 Department of Transportation.

17 Parks Livestock farm traffic will comply
18 with the same seasonal posted road weight limits
19 as all other traffic in the area.

20 Siting criteria eight. Is the farm
21 consistent with the area? Whether the
22 construction of the new farm is consistent with
23 the existing community growth, tourism, recreation
24 or economic development, or with specific projects

PUBLIC HEARING

37

1 involving community growth, tourism, recreation or
2 economic development that have been identified by
3 government action for development or operation
4 within one year through compliance with applicable
5 zoning and setback requirements.

6 I think it's pretty simple. We believe
7 the farm is consistent with the existing and
8 planned community development of this rural
9 agricultural area by demonstrating compliance with
10 zoning and setback. The farm will meet or exceed
11 all of the requirements within the Act.

12 So, I appreciate the opportunity to
13 demonstrate how the farm has met each of those
14 eight siting criteria. Look forward to
15 entertaining any questions that you might have.
16 Thank you.

17 MR. COLL: Thank you, Mr. West. Entered
18 into the record as Exhibit 3 is a presentation
19 from the facility representatives.

20 MR. WEST: He's got the electronic copy.

21 A VOICE: I will have to print it off.

22 MR. COLL: We will now open the meeting
23 for any questions that you may have of the
24 facility or of the Department. If you have a

PUBLIC HEARING

38

1 question you would like to ask, please raise your
2 hand; and when called upon, please state your name
3 and spell your last name. Please indicate to whom
4 you are directing your question. I will remind
5 you that this portion of the meeting will be
6 limited to questions only. After this question
7 and answer session, there will be a session
8 dedicated to public testimony where you can
9 provide your oral comments.

10 So please limit this session to
11 questions only. Also, keep in mind that questions
12 need to pertain to this particular facility. And
13 at this time I will open up for any questions.
14 Yes, in the back.

15 MR. LAVICKA: Lavicka is my last name,
16 L-A-V-I-C-K-A. How will this affect the water
17 table in our area?

18 MR. COLL: Is it Mr. Vick?

19 MR. LAVICKA: Lavicka, L-A-V-I-C-K-A.

20 MR. COLL: Can you please identify to
21 whom the question is being directed to?

22 MR. LAVICKA: To the hog operation.

23 MR. COLL: That's to you, Mr. West.

24 MR. WEST: I'm sorry, I apologize, I

PUBLIC HEARING

39

1 didn't hear the question when he was trying to get
2 you the microphone. My apologies.

3 MR. LAVICKA: How will this affect the
4 water table in our area for wells?

5 MR. WEST: I don't think it will affect
6 it at all.

7 MR. LAVICKA: You don't think, or you
8 don't know?

9 MR. WEST: Well, no. It won't affect
10 any of the wells in the area. From the wells that
11 I looked at, when we were doing an initial search,
12 so all of the wells that came up on the Illinois
13 State Geological Survey, most of the local wells
14 are very shallow wells. And not all of them, but
15 most of the wells are shallow wells and they're
16 all -- the closest one is nearly a mile away.

17 MR. LAVICKA: You're less than a mile,
18 ain't you, Ben?

19 A VOICE: Yeah.

20 MR. WEST: May not be quite a mile, but
21 in the testing that we've done on other projects,
22 well testing, the typical zone of influence that
23 we see is 100 yards. So, there's nothing close to
24 that number at all. So, I don't think -- there

PUBLIC HEARING

40

1 should be no impact whatsoever.

2 MR. LAVICKA: What if there is?

3 MR. WEST: Well, there won't be.

4 MR. COLL: Thank you. Do we have any
5 other questions?

6 MR. ZUMWALD: I have a question. My
7 question, my name is John Zumwald, spelled
8 Z-U-M-W-A-L-D. And my question is for David. I
9 was wondering, are you going to be feeding local
10 corn, or is this corn going to be brought in from
11 somewhere else or what?

12 MR. JAMES: The corn will be coming
13 Equity out of Effingham, Illinois, and they have
14 got a mill at Horace. I know their plan is, they
15 want to grow in this area, or in that area. So,
16 with feed trucks coming up and possibly could be
17 corn going back to their mill. So, it's a
18 possibility.

19 MR. COLL: Thank you. Any other
20 questions? In the back?

21 MR. KWAK: Names is James Kwak, K-W-A-K.
22 If by some reason the facility shuts down, who is
23 going to do the clean up?

24 MR. COLL: Mr. Kwak, just to clarify, is

PUBLIC HEARING

41

1 your question for the facility?

2 MR. KWAK: Yes, it is.

3 MR. COLL: Thank you.

4 MR. WEST: Well, these facilities, these
5 farms are made, designed in such a way that they
6 will last decades. So, keep that in mind.
7 Obviously there's no plan on shutting anything
8 down. There's no -- there would be no reason to
9 propose something this expensive and then come in
10 and shut it down.

11 Now, things happen. So, the Department
12 of Agriculture within the Act has a program that
13 goes through very stringent stipulations on how
14 one of these can be removed from working, let's
15 say. So, let's say worse case scenario. A farm
16 gets shut down. There is no pigs in there any
17 more. Well, in my presentation I went through,
18 there's no water that comes into and there's no
19 water that comes out unless we take it out. So,
20 it sits there, worse case.

21 But like I said, that's -- that doesn't
22 happen with the new farms. They're too expensive.
23 There's too much invested in them for the farm to
24 not operate them.

PUBLIC HEARING

42

1 MR. COLL: Are there any other
2 questions?

3 MR. KRIMM: Yeah, this is Harold Krimm.
4 This is petty, but how about the flies that you
5 guys are going to create?

6 MR. COLL: Mr. Krimm, can you please
7 spell your last name?

8 MR. KRIMM: K-R-I-M-M.

9 MR. COLL: Thank you. Is that question
10 for the facility or the Department?

11 MR. KRIMM: Yeah.

12 MR. JAMES: On the farm we put out fly
13 bait. We don't usually have a problem as long as
14 everything is -- with the cleaning of the barn up
15 the way it is, with the way the slats are, the
16 manure in the pit actually forms a crust in that
17 pit. So, there usually isn't a place for the
18 flies to lay their eggs. But, we do put out, just
19 like we do for other rodents, we do put out fly
20 bait.

21 MR. KRIMM: So you say there ain't going
22 to be very many flies then, huh?

23 MR. JAMES: It isn't going to be a
24 problem.

PUBLIC HEARING

43

1 MR. SMITH: Ben Smith, S-M-I-T-H. My
2 question is for the hog guys. Mr. Lavicka's
3 question, I don't think got answered. We've
4 lived -- we're just outside the circle to the
5 north. We've lived there for 30 years in our
6 little idyllic little world with our --

7 A VOICE: Just state your comment.

8 MR. SMITH: My comment is, it's a pretty
9 broad statement to say you're not going to have
10 trouble with your wells. We hope we don't. And I
11 understand you are going to take every precaution
12 that we won't.

13 But, what if we do? That was the
14 question, I think. What if we do? What's our
15 recourse if we do? It's easy for you to sit there
16 and say, you're not going to. What if we do?
17 What if we have problems with our well? What's
18 our recourse?

19 MR. WEST: Well, I'm not a lawyer,
20 unfortunately. I'm an engineer. So I'm not
21 certain I'm going to be able to answer that
22 question the way that's going to completely
23 satisfy you.

24 What I can do is try to elaborate a

PUBLIC HEARING

44

1 little bit more on what I said earlier. I have
2 worked with farms throughout the Midwest. I grew
3 up farming, I grew up in Southern Illinois where
4 water is not as available as what you all have it
5 up here.

6 We don't see issues. We don't see --
7 because if you were ten feet away, that's a
8 different story. But you're talking about, you're
9 outside of the setback. Our well is over a
10 quarter of a mile away. And when we have tested
11 wells within this part of the state on our farms
12 the draw down, so the radius, what we call the
13 zone of impact, so the radius away from that well
14 where we see any influence whatsoever goes in that
15 100 yard distance.

16 So, and I don't know where your well is,
17 I don't know how deep your well is that you're
18 referring to either. I don't know where your well
19 is. I know where it's at, I don't know how deep
20 it is.

21 MR. SMITH: It's about 80 foot.

22 MR. WEST: So likely you're talking
23 about totally different even zones that would be
24 pumped from.

PUBLIC HEARING

45

1 MR. SMITH: Okay. Just curious.

2 MR. WEST: I can understand. It's a
3 legitimate question.

4 MR. SMITH: Thank you.

5 MR. WEST: No problem, sir.

6 MR. COLL: Another question in the back?

7 MR. HAAG: Mike Haag, H-A-A-G. And this
8 is for Chris. How many years have you been
9 working on these types of buildings, Chris?

10 MR. WEST: 21 years.

11 MR. HAAG: And how many times has the
12 wells been an issue on these buildings that you've
13 heard of?

14 MR. WEST: I've not had one where the
15 pumping rate was affected whatsoever. Not one.

16 MR. HAAG: Okay.

17 MR. WEST: And let me elaborate that a
18 little bit. The reason for that is because of the
19 distance. You're not in a town. You're not --
20 the well is not -- most of these farms are in a
21 field where there's nothing close to it. So,
22 that's our protection.

23 MR. KRIMM: One more, I don't need that
24 mike. How many gallons a day would you guys use?

PUBLIC HEARING

46

1 How deep --

2 MR. COLL: State your name.

3 MR. KRIMM: I'm Mr. Krimm. How deep are
4 you going to go with your well, the one you'll be
5 putting in there, and how many gallons of water do
6 you use per day?

7 MR. JAMES: I can answer that one.
8 We'll use approximately 20 gallons per minute on
9 an average day. The well on that for E4 is 105
10 feet deep. And it's putting out about 70 gallons
11 per minute.

12 MR. COLL: Any other questions?

13 MR. ANDERSON: Nick Anderson,
14 A-N-D-E-R-S-O-N. This is for the Department. Mr.
15 West kind of expanded on the viability of a farm
16 that might be empty or whatnot. Could you kind of
17 discuss the closure process in the LMFA and what
18 that might take if someone would like to close
19 that farm or chooses to do that?

20 MR. GOETSCH: Certainly. I don't know
21 that it really gets at though what these, I think
22 the question really was. But, there is a closure
23 provision in the statute. The main reason for it
24 is to allow for once a facility is sited, is

PUBLIC HEARING

47

1 built, is operated, and then if they were to go
2 into an idle period, and they still want to
3 maintain their viability as a facility, then they
4 have to file with the Department a request for
5 closure. That then allows them to maintain that
6 facility, or maintain that site as a viable site
7 for, I believe, if I remember correctly, the next
8 ten years.

9 But, to do that they have to remove all
10 of the manure from the facility and agronomically
11 apply it so that that facility can in essence go
12 into a dormant state. And then if say a new owner
13 came along, they could then reopen the facility
14 because the setback maintenance has been
15 maintained, and they would then be able to restart
16 the facility.

17 Let me just say this in addition. The
18 fact that these facilities are built the way they
19 are, they continue to have value even if a
20 facility is -- say it was going to be no longer in
21 service. We have, for example, we have a facility
22 right now that was sited almost 20 years ago right
23 after the LMFA became effective. And that
24 facility is possibly going to terminate its

PUBLIC HEARING

48

1 service, and there's already people interested in
2 actually taking the buildings down for the salvage
3 value of the buildings.

4 I mean, so, buildings, these kinds of
5 structures, they have value as livestock
6 facilities. And then even after a significant
7 period of use there still is a significant value,
8 a value enough, that someone is willing to
9 actually buy it and deconstruct it.

10 MR. ANDERSON: Second part to that
11 question. So what if somebody takes a barn out of
12 service that's not going to continue, and they
13 remove it; they would follow that same standard?

14 MR. GOETSCH: Yeah, they're required to
15 remove all of the manure and appropriately apply
16 that manure at agronomic rates. So it's not like
17 someone can just walk away. They have to
18 appropriately remove the manure from that
19 facility.

20 MR. COLL: We got another question in
21 the back.

22 MS. GIBSON: Ruth Gibson. G-I-B-S-O-N.
23 When they remove that, do they have money set
24 aside for that ahead of time?

PUBLIC HEARING

49

1 MR. COLL: Ms. Gibson, is your question
2 for the Department or for the facility?

3 MS. GIBSON: I suppose the Department.
4 Are provisions made for money for the removal?

5 MR. GOETSCH: There are no -- unlike I
6 think solar farms, for example, there are
7 requirements for certain amounts of money to be
8 set aside for decommissioning. No, there are no
9 such provisions in the Livestock Management
10 Facilities Act.

11 MR. COLL: We got two questions in the
12 back.

13 MR. BARD: Roger Bard. B-A-R-D. This is
14 for the two gentlemen over here. You said the
15 traffic would go, I believe, 800 north over to
16 Route 41. However, you also said that the feed
17 would come up from Effingham, which is southwest
18 of here. So, what route would they take to bring
19 the feed up? Obviously they're not going to drive
20 over to Route 41 and Indiana, and then come up to
21 800 north and come into the farm.

22 MR. JAMES: Effingham also has a mill in
23 Horace, Illinois. And that would be where the
24 feed would be coming from.

PUBLIC HEARING

50

1 MR. BARD: Forest, Illinois?

2 MR. JAMES: Horace.

3 MR. BARD: Where is that located?

4 MR. JAMES: It is close to Chrisman.

5 MR. BARD: To Chrisman? Well, that's
6 south of here, so you're still coming -- you're
7 still not coming in on Route 41.

8 MR. JAMES: But Route 41 gives them a
9 posted road to run on.

10 MR. BARD: So, they would then go over to
11 Route 41 from Chrisman rather than using any of
12 the other roads here in Iroquois County?

13 MR. JAMES: I would leave that up to
14 Effingham to answer that. But, my understanding
15 is they're going to come around and come in
16 through Indiana.

17 MR. BARD: Thank you.

18 MR. STICHNOTH: Duane Stichnoth,
19 S-T-I-C-H-N-O-T-H. These guys over on the side,
20 what do you do about existing tile that's closer
21 than 100 feet?

22 MR. WEST: So, if there's any tile
23 within the footprint of the barn, or within 50
24 feet of the footprint of the barn, so during

PUBLIC HEARING

51

1 construction that would all be removed 'cuz the
2 requirement in the Act says that there can not be
3 any tile within 50 foot of the barn itself.

4 So, anything that's encountered, I
5 understand there's pattern tile in that field, so
6 anything within 50 foot of the perimeter of that
7 barn would be removed.

8 MR. STICHNOTH: So I am mistaken? It's
9 not 100 feet, is that right?

10 MR. WEST: Correct. 50 feet.

11 MR. COLL: Any other questions this
12 evening? With no further questions, we are going
13 to move on to the next segment of the
14 informational meeting tonight.

15 I will now at this point accept written
16 testimony. If you have written testimony that is
17 not referred to in your oral testimony, I will
18 accept it now and enter it into the record. If
19 you have written testimony that you will be
20 referencing during your oral testimony, it can be
21 entered into the record after your oral testimony.

22 Is there any written testimony to be
23 offered at this time?

24 MR. TWEEDY: That is the only

PUBLIC HEARING

52

1 handwritten letter that I have.

2 MR. COLL: Can you please give me your
3 name and spell your last name?

4 MR. TWEEDY: Mark Tweedy. T-W-E-E-D-Y.

5 MR. COLL: And at this point I'm going
6 to enter into the record Exhibit No. 4 from Mark
7 Tweedy. And also at this time I'd like to ask
8 everyone here at this meeting, would you like to
9 take a short ten minute break or would you like to
10 keep going? (No response.) All right. I think
11 we'll keep going. Thank you.

12 At this time I have the sign up sheets
13 that were at the entrance to the room listing the
14 people who wish to provide oral testimony.

15 I will call the names of those who wish
16 to testify. When called upon, please step up to
17 this microphone at the podium, state your name,
18 spell your last name for the court reporter. I
19 will swear you in. Remember, you will have three
20 minutes to speak. Are there any attorneys here
21 tonight representing clients?

22 (None identified.)

23 MR. COLL: So now I will begin with
24 tonight's part of the oral testimony.

PUBLIC HEARING

53

1 First person to be called tonight is
2 Ruth Gibson.

3 MS. GIBSON: Ruth Gibson, G-I-B-S-O-N.

4 MR. COLL: Ms. Gibson, can you please
5 raise your right hand.

6 (Witness sworn.)

7 MS. GIBSON: I own the property just
8 east of the Parks company's property. And I did
9 not realize this was happening until about 3
10 o'clock yesterday afternoon when I got this
11 registered package.

12 I'm very unhappy. For one thing, it's
13 incorrect. That ground has been owned in my
14 family since my great grandfather in the late
15 1800s. There are a lot of old out buildings
16 there. There's a cook house that's falling down.
17 Everything else is about gone.

18 When I was a child, we watered cattle
19 there from the well that is on that property.
20 That is under a thousand feet away from that. The
21 reason why there's no pump there is because you
22 can't leave one out there. It will disappear.

23 My plans were, and I hope to, hope to
24 put a home there in about two years when I retire.

PUBLIC HEARING

54

1 That well is a deep well. I drank from it when I
2 was a child. I pumped water from it. It is ice
3 cold water, icy cold. It's a deep well. The pipe
4 is four and a half inches wide. And I have
5 pictures of it on my phone that I took this
6 morning if somebody would like to see them.

7 A hog farm is a hog farm. If it quacks
8 like a duck, it's a duck. A hog farm stinks. I
9 don't want to live next to one. I want to enjoy
10 my evenings outside. I want to enjoy the property
11 that my family paid taxes on and farmed for years.
12 Thank you.

13 MR. COLL: Thank you, Ms. Gibson.

14 MS. GIBSON: You're welcome.

15 MR. COLL: Next I'd like to call Mrs.
16 Mary Smith.

17 MS. SMITH: Mary Smith. S-M-I-T-H.

18 (Witness sworn.)

19 MR. COLL: Thank you. You may proceed
20 with your testimony.

21 MS. SMITH: I'd like to address myself to
22 the Parks company and the land owners and the
23 tenants of the proposed building. I appreciate
24 that you have gone through and given all your

PUBLIC HEARING

55

1 documentation of what you have done, and in
2 accordance with everything you have dotted your
3 I's and crossed your T's.

4 However, we live right north of not only
5 this proposed facility, but the two more that you
6 have applied for. We are directly in line with
7 these farms. Whether it affects our well or not,
8 that is to be seen. We have lived there 30 years.
9 We have enjoyed our quality of life. This hog
10 farm is going to definitely diminish our quality
11 of life. If we choose to try to sell our property
12 because we would like to move away from this, the
13 economic value you talked about, our property
14 value is going to go down.

15 You have talked about odor management.
16 Case in point, odors don't stay behind the line
17 that you have drawn. We live four miles to the
18 west of a dairy facility in Indiana, which we
19 absolutely had no control over it going in either.
20 It is not uncommon for the odor from this dairy to
21 not only come to our property, but on into
22 Stockland. This is going to diminish the quality
23 of life, especially for us more than anybody else
24 in this room, but our whole community is going to

PUBLIC HEARING

1 be diminished by putting these facilities here.

2 I would like to state, we are not
3 opposed to anybody putting up a facility and
4 promoting agriculture. But, we are definitely
5 opposed to this site and the other two that are
6 being proposed. We would hope the land owners and
7 the company would reconsider other property owned
8 by the land owners, siting these buildings away
9 from our community, and most importantly our own
10 property. Thank you.

11 MR. COLL: Thank you, Ms. Smith. Next
12 I'd like to call Mr. Mark Tweedy. Mr. Tweedy, can
13 you please spell your last name for the court
14 reporter.

15 MR. TWEEDY: T-W-E-E-D-Y.

16 MR. COLL: Thank you.

17 (Witness sworn.)

18 MR. COLL: You may proceed with your
19 testimony.

20 MR. TWEEDY: Just three minutes? We have
21 several, I've been asked to answer or ask some
22 questions about this, and I hope I can get through
23 this in three minutes.

24 Some of these questions have been

PUBLIC HEARING

57

1 answered, I guess. I will try to get through
2 this. I apologize. Once again, what happens if
3 our wells get -- go dry, and that's a concern.
4 Many wells around there in the Stockland, Dawson
5 Park, I live about three-quarters of a mile away
6 from the first, and this hearing is just for the
7 first proposed site, right? I do -- did two
8 get -- there's two more facilities coming? I just
9 got that. So I'm assuming we're going to have
10 another hearing on these other two that will be
11 soon.

12 So, we've lived -- well, let me get
13 through this.

14 And how much smell will be detected for
15 the surrounding area or residents? How much
16 evaluation will there be in surrounding homes and
17 why do residents suffer financially while Park --
18 the Parks profit at our expense.

19 What happens if disease renders the
20 facility inoperative? What is the plans for
21 upgrading the substandard roads that are being
22 used by the hog farm?

23 And along with that, we -- they do close
24 posted roads from January 1st to I think it's

PUBLIC HEARING

58

1 April 15th. If that's right, how are they going
2 to get feed and hogs in and out of this facility
3 if it's a -- if those roads are posted? Because I
4 can't haul grain during that time. I don't know
5 how they're going to feed these hogs or move these
6 hogs to market.

7 And there again, this is only -- this is
8 only for this facility. There's a question here,
9 we think these other abandoned wells are too close
10 to this east facility. So, I guess that's -- I'll
11 say it, but this hearing is just for the north
12 facility, I'm guessing.

13 So that question is, is the east
14 facility too close to the house that is
15 approximately 2,150 feet to the east of that
16 building?

17 Prevailing westerly winds will put that
18 home in the direct path of any smell.

19 MR. COLL: Mr. Tweedy, can you please
20 close your remarks?

21 MR. TWEEDY: Okay. I apologize. I
22 didn't get through this. Someone will have to
23 explain about the aquifer. We are not on the
24 Mahomet aquifer. Our aquifer goes towards

PUBLIC HEARING

59

1 Indiana, Northwestern Indiana. And there are
2 eight center pivots, three other ones are removing
3 water out of Sugar Creek. There is the dairy that
4 is four or five miles south or east of us.
5 There's 6,500 milk cows there that's up and
6 running. And these three facilities for the hogs
7 here are going to pull out 15 million gallons of
8 water per year, and you're going to tell me our
9 wells aren't going to go dry?

10 MR. COLL: Thank you, very much. Thank
11 you for your comments.

12 MR. TWEEDY: I apologize.

13 MR. COLL: Next I'd like to call Mr. Ron
14 Bork.

15 MR. BORK: My name is Ron Bork, B-O-R-K.
16 (Witness sworn.)

17 MR. COLL: You may proceed with your
18 testimony.

19 MR. BORK: As I said, my name is Ron
20 Bork. I am the president of the Ford Iroquois
21 Farm Bureau, a general farm organization
22 representing a majority of the farmers in Ford and
23 Iroquois Counties.

24 Ford Iroquois Farm Bureau supports the

PUBLIC HEARING

60

1 growth and enhancement of the livestock industry
2 in Iroquois County. Our proximity to large grain
3 supplies, excellent transportation infrastructure,
4 and well trained work force make Iroquois County
5 an ideal for the production of livestock.

6 Livestock production currently
7 contributes 73.8 million to the economy of
8 Iroquois County each year, as well as providing
9 225 jobs. Additional livestock facilities will
10 provide permanent employment opportunities,
11 construction jobs, additions to the local tax
12 base, and open new markets for locally produced
13 grain.

14 Ford Iroquois Farm Bureau supports the
15 Livestock Facility Management Act, LMFA, which
16 provides statewide standards for siting
17 construction, certain operating procedures of
18 livestock farms in the state under the direction
19 of the Illinois Department of Agriculture.

20 This facility must demonstrate the
21 ability to meet the eight siting criterias for the
22 Department of Agriculture as was listed tonight.
23 The testimony we heard tonight included
24 information showing that this farm has the ability

PUBLIC HEARING

61

1 to meet those provisions of the LMFA.

2 On behalf of Ford Iroquois Farm Bureau,
3 I appreciate the opportunity to provide the
4 comments supporting the agriculture development in
5 Iroquois County. Thank you.

6 MR. COLL: Thank you, Mr. Bork. Next
7 I'd like to call Mr. Mike Haag. Can you please
8 spell your last name for the record.

9 MR. HAAG: H-A-A-G.

10 (Witness sworn.)

11 MR. COLL: You may proceed with your
12 testimony.

13 MR. HAAG: I do not have a lot prepared.
14 As you can see, I was a little bit late getting
15 here. My name is Mike Haag, I live about 60 miles
16 away from here. My family has grown up on a hog
17 farm my entire life. Since my kids were born, we
18 have had 1,200 sows on our farm. And the water
19 was about 50 foot from the building. The well.
20 It's only 100 foot deep. None of them has got
21 orange growing or anything. They've all graduated
22 college and are doing great.

23 Just to try to relieve, and I appreciate
24 your questions and concerns, and I know these

PUBLIC HEARING

62

1 things are scary. But I think livestock in a
2 community like this, in rural areas, is about the
3 only type of rural development we're going to get.
4 And I think we need to embrace it. We need to be
5 careful. We need to ask good questions.

6 But I think we need to also embrace it.
7 I have not done any calculations to figure that 15
8 million gallon that we just talked about these hog
9 farms would use. But, to put that number in
10 perspective, I just did a little calculating back
11 there; 640 acres would be one section of ground,
12 one square mile. One inch of rain would be right
13 at 19 million gallon.

14 So, if you think about how much inches
15 of rain fall a year on a corn crop, one inch would
16 be 19 million gallon. These hog barns might take
17 15 million gallon. I agree, that sounds like a
18 big number, but in relationship to what
19 agriculture uses, and what we use out there, it's
20 not a real big number. Just to put things in
21 perspective.

22 I just wrote a couple other things down.
23 I think it's exciting that Illinois is developing
24 some businesses, because I see so many things

PUBLIC HEARING

63

1 leaving our state. And I think it's going to be
2 so important that if we can keep some of these
3 businesses in.

4 Like I said, my family has grown up
5 there for years. I can't say pigs don't smell.
6 But I can tell you that our new buildings that we
7 have built in the last ten or 15 years, the smell
8 is reduced probably 500 percent from the old
9 Cargill huts that we used to have back 40 years
10 ago. They smell much less. And it's very few
11 days -- I know some of you feel like you're close.
12 And I'm not going to tell you that there won't be
13 a few days a year that you won't get a smell.
14 But, it will not drive you from going outside.

15 My kids still play in our yard all the
16 time growing up 120, 30 feet from the buildings.
17 The pigs, you hear the feeders clank at night.
18 So, it's not going to change your lives. It's not
19 as scary as it seems. And I think there is some
20 opportunities here also.

21 So, with that, if there's any other
22 questions, I would be willing to entertain them.
23 Like I said, I've grown up on a livestock farm my
24 whole life, and I really embrace livestock moving

PUBLIC HEARING

64

1 into Illinois and staying in Illinois to feed this
2 corn. We have a heck of a surplus of corn here.
3 And if it's not going to China, we better find
4 somewhere to feed it. Thank you.

5 MR. COLL: Thank you, Mr. Haag. Next
6 I'd like to call Mr. Randy Poskin.

7 MR. POSKIN: P-O-S-K-I-N.

8 (Witness sworn.)

9 MR. COLL: You may proceed with your
10 testimony.

11 MR. POSKIN: Thank you. Good evening. I
12 am Randy Poskin. I am the District 6 director for
13 Illinois Farm Bureau. I represent Ford Iroquois
14 Farm Bureau, Kankakee and Livingston Counties as
15 well. I also live in Iroquois County in the
16 village of Ashkum.

17 Illinois Farm Bureau supports all
18 aspects of agriculture, including the development
19 of livestock farms. Animal agriculture plays a
20 vital role in the economy of Illinois, including
21 this county, Iroquois. Our organization's policy
22 it to encourage growth and enhancement of the
23 livestock industry in Illinois, provided that the
24 facilities comply with the statutory and

PUBLIC HEARING

65

1 regulatory requirements.

2 Today's farms have changed over the
3 course of the decades. Just as many of our homes
4 and businesses have evolved through the years, the
5 size of farms has grown. The values we hold dear
6 are just as strong as they were generations ago.
7 We too want safe food. We want quality care of
8 animals. And we want to protect the environment.

9 The Livestock Management Facilities Act
10 governs the siting, construction and certain
11 aspects of operating livestock farms in our state.
12 It ensures that livestock farms will be sited on
13 scientific, objective criteria, and the rules are
14 applied uniformly throughout the state. Tonight
15 this meeting provided the opportunity for the
16 public to ask questions or comment on the proposed
17 construction of a new project here in this county.

18 The testimony presented outlined for all
19 of us in attendance the plans for this proposed
20 facility to meet each set of criteria, including
21 environmental protections, manure management, and
22 odor mitigation. Should the Department discover
23 through the testimony tonight the information
24 contained within the application and inspections

PUBLIC HEARING

66

1 of the proposed site, the ability of the project
2 to meet the standards set forth in the LMFA, then
3 it should be allowed to proceed to the next phase
4 of the LMFA.

5 Bringing more livestock production into
6 Illinois, and specifically Iroquois County, allows
7 future generations an opportunity to become
8 involved in animal agriculture. The opportunities
9 available to newer farmers are sometimes limited.
10 But expanding livestock allows those interests a
11 place in the industry.

12 On behalf of Illinois Farm Bureau, I
13 appreciate the opportunity to speak tonight.
14 Thank you.

15 MR. COLL: Thank you, Mr. Poskin. Next
16 I'd like to call Ms. Jennifer Tirey.

17 MS. TIREY: Jennifer Tirey, T-I-R-E-Y.
18 (Witness sworn.)

19 MR. COLL: Please proceed with your
20 testimony.

21 MS. TIREY: Good evening. My name is
22 Jennifer Tirey. I am the executive director for
23 the Illinois Pork Producers Association.

24 So essentially what I get to do every

PUBLIC HEARING

67

1 day is represent about 2,000 pig farmers from
2 across the State of Illinois. Just like Mike
3 Haag, who testified earlier, and just like we're
4 hoping this next generation of pork producers that
5 will continue to develop in Iroquois County.

6 I wanted to talk specifically about one
7 of the points that came up regarding economic
8 value of your homes. We have many instances
9 across the state, I'm going to tell you one
10 actually is in DeKalb County, so the population is
11 quite a bit larger than Iroquois County. It's
12 close to 18,000 people in that community.

13 And we had a hog farmer who built a barn
14 with a similar number of hogs in that county, and
15 they actually built an entire subdivision of homes
16 that are valued between 200 and 300 thousand
17 dollars after that farm had come in. We actually
18 take a lot of individuals on that tour, they have
19 viewing windows, they can come see their farm.
20 And they have such a great relationship with that
21 neighbor, those neighbors that are less than a
22 quarter of a mile. So, they're inside the
23 setback, but the barns were there first.

24 And they communicate with the neighbors,

PUBLIC HEARING

68

1 they talk with the neighbors. They say hey, we've
2 got a wedding coming up; can you please, if you're
3 going to apply manure, can you not apply manure.

4 As we talked about, we inject our
5 manure. It's not broadcasted, but there's a level
6 of respect with our pig farmers. Because this is
7 their livelihood. They want to bring that back,
8 that livelihood for their future generations. So
9 this is something that our farmers take very
10 seriously. They want to have a good relationship.
11 We welcome these sort of discussions and questions
12 because we want to have a transparent relationship
13 within the community.

14 So I just want to let you know that
15 we're in it for the long haul because this is our
16 livelihood. We work very hard, we want to do a
17 good job. We want to protect the environment for
18 our future generations. We appreciate the time
19 and the opportunity to answer these questions, and
20 thank you so much for your interest.

21 MR. COLL: Thank you, Ms. Tirey. Next
22 I'd like to call Mr. Nick Anderson.

23 MR. ANDERSON: Nick Anderson,
24 A-N-D-E-R-S-O-N.

PUBLIC HEARING

69

1 (Witness sworn.)

2 MR. COLL: You may proceed with your
3 testimony.

4 MR. ANDERSON: Thank you, Department of
5 Agriculture and the Parks group and Chris West and
6 the County Board for having this meeting. My hope
7 is that afterwards the folks that had some
8 concerns that need more details, that we can help
9 you understand some of that.

10 And we do realize, this seems to be old
11 hat for us in the livestock business and
12 agriculture and it's all new to you and it becomes
13 emotional. And really we need to discuss those
14 issues, and there's several of them that have been
15 covered by other folks here, and there's a few
16 that stand out for me.

17 But I work with the Illinois Livestock
18 Development Group, and I work with a lot of farms;
19 cattle, hogs, chickens, around the state. And
20 meeting the criteria of the Livestock Management
21 Facilities Act, we haven't had the experience of
22 the concerns that you folks have. It doesn't mean
23 they're not valid. But we need to talk about
24 facts and reality.

PUBLIC HEARING

70

1 And my hope is, we can show you, proof
2 is in the pudding, a lot of people don't want to
3 wait for that, but just a few clerical processes
4 here so the Department of Ag understands what your
5 concern is on, and if you do have those, make sure
6 they know; because they need to vet those out.
7 Whether it's a well, or your distance from that
8 farm, to make sure it's accurate, because they
9 verify those things.

10 And that's part of the purpose of this
11 meeting tonight. And not to point out, Mrs.
12 Gibson, and I realize there are other farms, I
13 hope you understand that that notice you got was
14 not for this E4. It was for another farm that is
15 coming up. So we would need to verify those
16 concerns you had on that location, either
17 personally or with the folks here tonight.

18 MS. GIBSON: I will be happy to show you
19 the well.

20 MR. ANDERSON: That would be great, and
21 we need to verify that. At some point the
22 Department of Agriculture needs to know that
23 information on that project, but I don't think
24 it's associated with this one.

PUBLIC HEARING

71

1 The water consumption, and just a
2 ballpark for everybody and the folks that really
3 have water concerns, think about pork production
4 and little pigs coming in at 10 to 15 pounds are
5 going to drink very little water. And when they
6 leave the farm at 280 pounds or so, they're going
7 to drink a lot of water. So, a little piglet
8 drinks a little. A big pig drinks about five or
9 six gallons a day. The average daily consumption
10 per pig from small to big is 1.5 gallons.

11 Over 365 days, if you combine this farm
12 and those other farms that are proposed, it's
13 about seven million gallons.

14 I beg you to go look at the irrigation
15 system, other capacities that are out there; they
16 far exceed anything this farm is going to have
17 impact on the water supply. The 70 gallon a
18 minute that they talked about is indicative of
19 what supply of water is there. And also depth at
20 that 100 feet level. And then distance on the
21 zone of impact.

22 Don't take the farms and the
23 presentation. Go to the Water Survey and look up
24 a cone of impact on wells. It will give you that

PUBLIC HEARING

72

1 same data to verify it so it's not his word or his
2 interpretation. There are systems out there
3 through the geological service, the Illinois Well
4 Survey, that can give you that data and see the
5 maps that he verified. It doesn't have to be
6 emotional.

7 And then also, lastly, I will wrap up
8 here, on the consumption of local grain, and
9 there's a lot of farmers in this room and they
10 know a word that we dread every year. It's called
11 basis. Whether that corn comes from Horace,
12 Illinois, or Effingham or DeKalb or the
13 Mississippi River or somewhere in Indiana, when we
14 consume local corn through livestock, we're
15 affecting basis around the State of Illinois. It
16 might be a nickel or a dime. But, if we can use
17 it here, whether it's in Iroquois County or Ford
18 County or Vermilion County, it takes it out of the
19 market that makes our total corn crop more
20 valuable, and it doesn't get to the river for
21 somebody else to capture the value on it.

22 That's the importance, whether it's not
23 corn locally or from down the road. It's the
24 total basis of Illinois's farm crop that is

PUBLIC HEARING

73

1 impacted. And you multiply that over the farms in
2 Illinois, it's very impactful. And I hope you
3 realize that, and look at it on a broader
4 schedule.

5 Thank you tonight for having us, and the
6 Department for putting this on, and I hope the
7 County Board will see that the farm can meet the
8 requirements of the Act and this project will move
9 forward. But those of you that have questions,
10 let us know. I think we can answer those. And if
11 we can take some of the emotion that we all have
12 out of it, I think logically we can come to the
13 solution that we can all cooperate together.
14 Thanks very much.

15 MR. COLL: Thank you, Mr. Anderson. Is
16 there anyone else here this evening who would like
17 to provide oral testimony?

18 (None came forward.)

19 MR. COLL: At this time I'm going to
20 enter into the record as Exhibit 5 the oral
21 testimony sign in sheet. This concludes the oral
22 testimony portion of the meeting.

23 Also into the record as Exhibit 6 is the
24 attendance sign up sheet. Are there any closing

PUBLIC HEARING

1 remarks from the facility?

2 MR. JAMES: No.

3 MR. COLL: Thank you. As I mentioned
4 earlier, a copy of the transcript will be provided
5 to the County Board. For others desiring a copy,
6 the transcript will be available by contacting the
7 court reporter. Thank you for your attendance
8 tonight. This public informational meeting is
9 hereby adjourned.

10 (The time is 7:40 p.m.)

11

12

13

14

15

16

17

18

19

20

21

22

23

24

1 STATE OF ILLINOIS)
) SS
2 COUNTY OF CHAMPAIGN)

3 I, DEANN K. PARKINSON, a Notary Public
4 in and for the County of Champaign State of
5 Illinois, do hereby certify that the foregoing was
6 taken on August 6, 2019.

7 That said hearing was taken down in
8 stenographic notes and afterwards reduced to
9 typewriting under my instruction and said
10 transcription is a true record of the testimony
11 given.

12 I do hereby certify that I am a
13 disinterested person in this cause of action; that
14 I am not a relative of any party or any attorney
15 of record in this cause, or an attorney for any
16 party herein, or otherwise interested in the event
17 of this action, and am not in the employ of the
18 attorneys for either party.

19 In witness whereof, I have hereunto set
20 my hand and affixed my notarial seal August 11th,
21 2019.

22 _____
23 DEANN K. PARKINSON, CSR
24 NOTARY PUBLIC

<p>A</p> <p>abandoned (1) 58:9</p> <p>ability (4) 28:2;60:21,24;66:1</p> <p>able (3) 33:22;43:21;47:15</p> <p>above (1) 33:16</p> <p>absolutely (1) 55:19</p> <p>accept (3) 5:22;51:15,18</p> <p>accepted (2) 7:9;31:16</p> <p>accessible (1) 31:8</p> <p>accomplished (1) 19:22</p> <p>accordance (1) 55:2</p> <p>according (3) 18:14;21:10;28:18</p> <p>accumulation (1) 33:17</p> <p>accurate (1) 70:8</p> <p>acres (5) 23:18;32:12,16; 33:8;62:11</p> <p>across (4) 22:4;27:3;67:2,9</p> <p>Act (29) 3:16;4:18;5:5;8:19; 9:1,3,5,8,20;11:1,21; 12:8,14;18:15;21:5,8; 22:17;24:4;27:14; 30:6;34:21;37:11; 41:12;49:10;51:2; 60:15;65:9;69:21; 73:8</p> <p>action (1) 37:3</p> <p>actual (2) 19:3;31:1</p> <p>actually (8) 18:22;26:20;42:16; 48:2,9;67:10,15,17</p> <p>addition (2) 20:10;47:17</p> <p>additional (3) 11:20;13:24;60:9</p> <p>additions (1) 60:11</p> <p>address (1) 54:21</p> <p>adjourned (1) 74:9</p> <p>administration (1) 8:18</p> <p>aerial (1)</p>	<p>35:18</p> <p>affect (4) 38:16;39:3,5,9</p> <p>affected (1) 45:15</p> <p>affecting (1) 72:15</p> <p>affects (1) 55:7</p> <p>afford (1) 3:18</p> <p>aforementioned (1) 12:5</p> <p>afternoon (1) 53:10</p> <p>afterwards (1) 69:7</p> <p>Ag (4) 18:8;19:15;23:5; 70:4</p> <p>Again (13) 7:24;11:18;14:17; 23:16;27:2;28:23; 31:2;33:21;34:1; 35:18;36:15;57:2; 58:7</p> <p>ago (3) 47:22;63:10;65:6</p> <p>agree (1) 62:17</p> <p>agricultural (1) 37:9</p> <p>Agriculture (26) 3:3,7;4:6,21;5:9; 7:3;8:12,16;19:9; 23:11;24:1,6,8;26:17; 41:12;56:4;60:19,22; 61:4;62:19;64:18,19; 66:8;69:5,12;70:22</p> <p>agronomic (3) 19:19;20:17;48:16</p> <p>agronomically (1) 47:10</p> <p>ahead (1) 48:24</p> <p>aids (1) 34:11</p> <p>ain't (2) 39:18;42:21</p> <p>air (2) 31:13,14</p> <p>Albert (1) 3:6</p> <p>allow (6) 20:14,16;29:2;34:9; 35:13;46:24</p> <p>allowed (2) 6:21;66:3</p> <p>allows (4) 29:24;47:5;66:6,10</p> <p>almost (1) 47:22</p> <p>alone (2)</p>	<p>23:17,22</p> <p>along (2) 47:13;57:23</p> <p>always (1) 9:24</p> <p>amended (1) 9:6</p> <p>amount (2) 6:4;33:21</p> <p>amounts (1) 49:7</p> <p>anaerobic (1) 9:12</p> <p>analysis (1) 20:10</p> <p>analyzed (1) 31:3</p> <p>Anderson (9) 46:13,13;48:10; 68:22,23,23;69:4; 70:20;73:15</p> <p>A-N-D-E-R-S-O-N (2) 46:14;68:24</p> <p>animal (11) 3:21;10:19;18:16, 16;23:8;24:13,14; 34:16;36:8;64:19; 66:8</p> <p>animals (6) 22:8;24:12;28:10, 23;34:13;65:8</p> <p>annual (3) 9:16;20:1;34:8</p> <p>answered (2) 43:3;57:1</p> <p>anticipated (3) 32:15;35:20,23</p> <p>apologies (1) 39:2</p> <p>apologize (4) 38:24;57:2;58:21; 59:12</p> <p>applicable (3) 8:24;10:24;37:4</p> <p>applicant (2) 14:7;15:1</p> <p>application (22) 10:5,17,23;11:4,6; 14:11;19:6,13;20:4; 28:2;30:14,16;31:11, 15,17,22,24,24;32:5, 11,14;65:24</p> <p>applicator (1) 31:20</p> <p>applied (4) 23:19;31:19;55:6; 65:14</p> <p>apply (6) 9:24;19:7;47:11; 48:15;68:3,3</p> <p>applying (2) 27:24;31:6</p> <p>appreciate (7)</p>	<p>7:24;37:12;54:23; 61:3,23;66:13;68:18</p> <p>appropriate (3) 11:7,18;12:15</p> <p>appropriately (2) 48:15,18</p> <p>approval (1) 26:16</p> <p>approved (1) 19:19</p> <p>approximately (5) 10:14;32:12,16; 46:8;58:15</p> <p>April (1) 58:1</p> <p>aquifer (7) 17:16;24:23;25:2; 26:8;58:23,24,24</p> <p>area (32) 11:10;12:22;13:1; 17:2,19;20:4;22:19; 24:1,7,7,8;25:1,1,6, 10,12,16,16;26:6; 27:10;32:14;34:24; 35:14;36:19,21;37:9; 38:17;39:4,10;40:15, 15;57:15</p> <p>areas (7) 9:9;12:21;24:20; 25:21;26:3,4;62:2</p> <p>area's (1) 12:19</p> <p>around (4) 50:15;57:4;69:19; 72:15</p> <p>arrived (1) 24:16</p> <p>Ashkum (1) 64:16</p> <p>aside (2) 48:24;49:8</p> <p>aspect (2) 33:11;34:4</p> <p>aspects (2) 64:18;65:11</p> <p>assist (1) 7:17</p> <p>associated (3) 14:11;25:18;70:24</p> <p>Association (2) 24:10;66:23</p> <p>assuming (1) 57:9</p> <p>attend (1) 23:10</p> <p>attendance (4) 6:9;65:19;73:24; 74:7</p> <p>attention (1) 14:17</p> <p>attorneys (1) 52:20</p> <p>available (9)</p>	<p>13:3;19:14;31:17; 32:13;33:8;35:11; 44:4;66:9;74:6</p> <p>average (6) 36:5,7,11,12;46:9; 71:9</p> <p>away (15) 29:2,3,11;31:13,14; 39:16;44:7,10,13; 48:17;53:20;55:12; 56:8;57:5;61:16</p> <hr/> <p>B</p> <p>back (11) 14:19;35:22;38:14; 40:17,20;45:6;48:21; 49:12;62:10;63:9; 68:7</p> <p>bait (2) 42:13,20</p> <p>ball (1) 33:5</p> <p>ballpark (1) 71:2</p> <p>BARD (7) 49:13,13;50:1,3,5, 10,17</p> <p>B-A-R-D (1) 49:13</p> <p>barn (34) 17:3,5,8;18:1; 21:21,22,23;22:1,4,5; 23:18;26:19;27:3; 28:10,11,12,16,24; 29:3,4,4,8;32:22; 33:15,19;35:6,19; 42:14;48:11;50:23, 24;51:3,7;67:13</p> <p>barns (3) 29:11;62:16;67:23</p> <p>base (1) 60:12</p> <p>Based (8) 14:3;15:14;16:6; 21:15;30:24;31:1; 32:20;33:2</p> <p>Basically (1) 25:21</p> <p>basis (3) 72:11,15,24</p> <p>bean (1) 20:8</p> <p>became (2) 9:4;47:23</p> <p>become (2) 35:10;66:7</p> <p>becomes (1) 69:12</p> <p>bed (1) 25:19</p> <p>beg (1) 71:14</p>
---	--	--	--	---

<p>begin (2) 15:8;52:23</p> <p>behalf (7) 3:1,10;6:16,20; 8:20;61:2;66:12</p> <p>behind (2) 32:8;55:16</p> <p>below (5) 22:9;25:21;26:21; 27:1,5</p> <p>Ben (2) 39:18;43:1</p> <p>benefit (2) 5:13;6:19</p> <p>best (3) 20:18;31:16;34:13</p> <p>better (1) 64:3</p> <p>big (4) 62:18,20;71:8,10</p> <p>biggest (1) 17:11</p> <p>bit (7) 17:9;32:17;34:15; 44:1;45:18;61:14; 67:11</p> <p>blue (2) 25:9,13</p> <p>Board (13) 3:18;4:5;7:22;8:7; 11:5,13,16;13:10,15; 14:7;69:6;73:7;74:5</p> <p>Board's (1) 13:23</p> <p>book (3) 32:20;33:1,2</p> <p>boring (3) 26:14,24;27:5</p> <p>borings (1) 26:18</p> <p>Bork (6) 59:14,15,15,19,20; 61:6</p> <p>B-O-R-K (1) 59:15</p> <p>born (1) 61:17</p> <p>both (3) 14:6;22:19;24:20</p> <p>bottom (4) 25:2;26:21;27:2,6</p> <p>break (2) 6:6;52:9</p> <p>Brief (1) 4:15</p> <p>bright (1) 25:13</p> <p>bring (2) 49:18;68:7</p> <p>Bringing (1) 66:5</p> <p>broad (1) 43:9</p>	<p>broadcast (1) 30:21</p> <p>broadcasted (1) 68:5</p> <p>broader (1) 73:3</p> <p>brought (1) 40:10</p> <p>build (1) 16:10</p> <p>building (7) 10:10;22:11;25:10; 26:22;54:23;58:16; 61:19</p> <p>buildings (9) 45:9,12;48:2,3,4; 53:15;56:8;63:6,16</p> <p>building's (1) 33:24</p> <p>buildup (2) 33:15;34:1</p> <p>built (5) 47:1,18;63:7;67:13, 15</p> <p>Bureau (8) 59:21,24;60:14; 61:2;64:13,14,17; 66:12</p> <p>bureau's (1) 3:11</p> <p>business (3) 13:11,18;69:11</p> <p>businesses (3) 62:24;63:3;65:4</p> <p>buy (1) 48:9</p>	<p>6:2;9:8,22;15:17; 16:17;19:7;20:9,12, 18;26:5;27:3,4;28:3, 20,21;31:7,8;32:18, 19;34:4;38:8,20; 41:14;42:6;43:24; 45:2;46:7;47:11; 48:17;51:2,20;52:2; 53:4;56:12,22;58:19; 61:7,14;63:2,6;67:19; 68:2,3;69:8;70:1; 72:4,16;73:7,10,11, 12,13</p> <p>capacities (1) 71:15</p> <p>capacity (2) 10:18;11:8</p> <p>capture (1) 72:21</p> <p>carbonate (2) 25:19;26:10</p> <p>care (1) 65:7</p> <p>careful (1) 62:5</p> <p>Cargill (1) 63:9</p> <p>carrier (2) 34:2,3</p> <p>case (3) 41:15,20;55:16</p> <p>cattle (2) 53:18;69:19</p> <p>caused (1) 11:17</p> <p>causing (2) 33:22;34:18</p> <p>caves (1) 26:3</p> <p>center (1) 59:2</p> <p>certain (4) 43:21;49:7;60:17; 65:10</p> <p>certainly (2) 9:22;46:20</p> <p>certification (4) 17:14;18:2,4;19:9</p> <p>certified (2) 23:1,3</p> <p>certifying (1) 19:9</p> <p>change (1) 63:18</p> <p>changed (2) 6:23;65:2</p> <p>character (1) 12:19</p> <p>chickens (1) 69:19</p> <p>child (2) 53:18;54:2</p> <p>China (1)</p>	<p>64:3</p> <p>choose (2) 8:8;55:11</p> <p>chooses (1) 46:19</p> <p>Chris (6) 15:20;16:11,15; 45:8,9;69:5</p> <p>Chrisman (3) 50:4,5,11</p> <p>circle (1) 43:4</p> <p>cites (1) 23:16</p> <p>clank (1) 63:17</p> <p>clarify (1) 40:24</p> <p>clean (4) 29:1,5,10;40:23</p> <p>cleaning (3) 33:12,17;42:14</p> <p>clerical (1) 70:3</p> <p>clients (3) 6:17,18;52:21</p> <p>close (11) 13:17;39:23;45:21; 46:18;50:4;57:23; 58:9,14,20;63:11; 67:12</p> <p>closed (1) 28:9</p> <p>closer (1) 50:20</p> <p>closest (1) 39:16</p> <p>closing (3) 7:2,11;73:24</p> <p>closure (3) 46:17,22;47:5</p> <p>cold (2) 54:3,3</p> <p>COLL (51) 3:1,6;14:21;15:17, 21,24;16:3;37:17,22; 38:18,20,23;40:4,19, 24;41:3;42:1,6,9; 45:6;46:2,12;48:20; 49:1,11;51:11;52:2,5, 23;53:4;54:13,15,19; 56:11,16,18;58:19; 59:10,13,17;61:6,11; 64:5,9;66:15,19; 68:21;69:2;73:15,19; 74:3</p> <p>college (1) 61:22</p> <p>combine (1) 71:11</p> <p>coming (10) 29:7;40:12,16; 49:24;50:6,7;57:8;</p>	<p>68:2;70:15;71:4</p> <p>commencing (1) 18:19</p> <p>comment (4) 12:7;43:7,8;65:16</p> <p>comments (17) 4:1,12,16;6:11,14, 16;7:2,5,5,11;8:4,7; 14:18;15:7;38:9; 59:11;61:4</p> <p>comments' (1) 13:18</p> <p>communicate (1) 67:24</p> <p>communication (1) 32:3</p> <p>community (9) 12:24;36:23;37:1,8; 55:24;56:9;62:2; 67:12;68:13</p> <p>companies (3) 15:13,14;16:6</p> <p>company (4) 16:7,7;54:22;56:7</p> <p>company's (1) 53:8</p> <p>compatibility (1) 17:15</p> <p>compatible (1) 24:6</p> <p>complete (4) 11:3;18:9,10;22:22</p> <p>completed (4) 11:4;12:5;14:10,23</p> <p>completely (1) 43:22</p> <p>compliance (7) 7:18;10:24;11:9; 12:7,11;37:4,9</p> <p>complicated (1) 9:21</p> <p>complied (1) 24:4</p> <p>complies (1) 34:20</p> <p>comply (2) 36:17;64:24</p> <p>components (1) 31:15</p> <p>comprehensive (8) 18:23;19:4,11,17, 22;28:19;30:13;35:3</p> <p>concentrations (1) 34:6</p> <p>concepts (1) 27:13</p> <p>concern (2) 57:3;70:5</p> <p>concerns (5) 61:24;69:8,22; 70:16;71:3</p> <p>conclude (1) 7:1</p>
	C			
<p>cab (1) 32:3</p> <p>calculate (2) 20:14,16</p> <p>calculating (1) 62:10</p> <p>calculation (1) 24:16</p> <p>calculations (3) 20:1,16;62:7</p> <p>calendar (1) 13:19</p> <p>call (10) 20:17;44:12;52:15; 54:15;56:12;59:13; 61:7;64:6;66:16; 68:22</p> <p>called (4) 38:2;52:16;53:1; 72:10</p> <p>came (5) 6:9;39:12;47:13; 67:7;73:18</p> <p>can (52)</p>				

<p>concludes (2) 14:15;73:21</p> <p>concrete (6) 10:10,11;21:11,18; 22:13;29:15</p> <p>conduct (1) 26:24</p> <p>conducted (2) 3:14,24</p> <p>cone (1) 71:24</p> <p>confine (1) 8:3</p> <p>consider (1) 8:2</p> <p>considered (2) 9:17;26:4</p> <p>consist (1) 10:7</p> <p>consistency (1) 26:19</p> <p>consistent (6) 17:19;21:4;25:5; 36:21,22;37:7</p> <p>consists (1) 36:11</p> <p>construct (6) 10:5,22;13:21; 14:11,23;18:6</p> <p>constructed (1) 17:8</p> <p>construction (20) 3:21;4:7;5:2;8:2; 10:6,8;11:22;13:22; 25:4;29:14,15,17; 30:2,3;36:22;51:1; 60:11,17;65:10,17</p> <p>consultation (1) 11:16</p> <p>consulting (1) 16:12</p> <p>consume (1) 72:14</p> <p>consumption (3) 71:1,9;72:8</p> <p>contact (3) 30:4;31:13;36:1</p> <p>contacting (1) 74:6</p> <p>contain (1) 32:1</p> <p>contained (1) 65:24</p> <p>containing (1) 25:17</p> <p>continual (1) 32:2</p> <p>continue (4) 8:5;47:19;48:12; 67:5</p> <p>continuing (1) 20:24</p> <p>contributes (1)</p>	<p>60:7</p> <p>control (11) 12:21;17:17;30:7,8, 13;33:11;34:19;35:4, 7,8;55:19</p> <p>controlled (2) 30:13,16</p> <p>controls (1) 32:1</p> <p>cook (1) 53:16</p> <p>cooperate (1) 73:13</p> <p>cooperative (1) 21:14</p> <p>Copies (1) 13:2</p> <p>copy (7) 11:3;13:5,7;14:14; 37:20;74:4,5</p> <p>corn (12) 20:7;40:10,10,12, 17;62:15;64:2,2; 72:11,14,19,23</p> <p>corn/corn (1) 32:17</p> <p>corner (3) 25:8,24;26:1</p> <p>correctly (1) 47:7</p> <p>correspondence (3) 14:12,24;15:2</p> <p>counsel (1) 6:16</p> <p>counties (4) 24:9,9;59:23;64:14</p> <p>County (39) 3:4,17;4:5;7:22; 8:7;10:16;11:5,13,16; 13:10,14,23;14:6; 15:3;24:2,2,5;26:6,7; 36:13;50:12;60:2,4,8; 61:5;64:15,21;65:17; 66:6;67:5,10,11,14; 69:6;72:17,18,18; 73:7;74:5</p> <p>county's (1) 13:17</p> <p>couple (4) 17:22;27:12;32:6; 62:22</p> <p>course (2) 23:10;65:3</p> <p>court (6) 5:13;7:20;15:10; 52:18;56:13;74:7</p> <p>covered (1) 69:15</p> <p>covering (1) 9:9</p> <p>cows (1) 59:5</p> <p>create (1)</p>	<p>42:5</p> <p>Creek (1) 59:3</p> <p>criteria (20) 5:4;12:12;13:2; 14:4;16:13,22;17:12; 20:24;21:1;22:14; 23:23;24:22;27:7; 30:7;35:15;36:20; 37:14;65:13,20;69:20</p> <p>critérias (1) 60:21</p> <p>critical (1) 23:12</p> <p>crop (6) 20:8,19;31:7;62:15; 72:19,24</p> <p>crops (7) 19:20;20:8,8;27:23; 28:20;31:5,9</p> <p>crossed (1) 55:3</p> <p>cross-section (2) 22:3;27:2</p> <p>crust (1) 42:16</p> <p>curious (1) 45:1</p> <p>current (7) 4:22;9:2;10:3; 30:11;33:3,3,4</p> <p>currently (3) 8:14;12:6;60:6</p> <p>custom (1) 31:20</p> <p>cut (1) 22:4</p> <p>cuz (1) 51:1</p> <p>cycle (1) 33:19</p>	<p>46:6,9;67:1;71:9</p> <p>days (11) 13:11,18,19;18:18; 27:16,18,24;29:21; 63:11,13;71:11</p> <p>dealing (1) 26:20</p> <p>deals (1) 11:21</p> <p>dear (1) 65:5</p> <p>debate (1) 7:13</p> <p>decades (2) 41:6;65:3</p> <p>decision (1) 14:8</p> <p>decommissioning (1) 49:8</p> <p>deconstruct (1) 48:9</p> <p>dedicated (2) 21:14;38:8</p> <p>deemed (3) 18:8,10;22:21</p> <p>deep (9) 10:10;44:17,19; 46:1,3,10;54:1,3; 61:20</p> <p>Deferring (1) 6:20</p> <p>defined (1) 12:12</p> <p>definitely (2) 55:10;56:4</p> <p>definition (2) 25:20;26:8</p> <p>DeKalb (2) 67:10;72:12</p> <p>demonstrate (3) 5:3;37:13;60:20</p> <p>demonstrating (1) 37:9</p> <p>demonstration (1) 9:13</p> <p>Department (52) 3:3,7,10;4:6,20;5:9; 7:3,5,7,22;8:11,16,17, 20;10:4,21;11:2,12, 16,23;12:6;13:12,15, 18;14:2,3,6,24;18:7; 19:8,15;22:22;23:5, 11;26:17;36:2,4,16; 37:24;41:11;42:10; 46:14;47:4;49:2,3; 60:19,22;65:22;69:4; 70:4,22;73:6</p> <p>Department's (3) 9:23;14:7;15:5</p> <p>Depending (3) 5:14;6:4;9:15</p> <p>depth (1) 71:19</p>	<p>deputy (3) 4:20;8:10,15</p> <p>describe (1) 5:3</p> <p>described (1) 9:8</p> <p>design (12) 9:10;10:18;11:8,22; 12:1;17:14;21:2,6,9, 10,20;30:2</p> <p>designed (2) 29:12;41:5</p> <p>designs (1) 9:22</p> <p>desiring (1) 74:5</p> <p>detail (2) 19:2;23:15</p> <p>detailed (2) 11:24;12:4</p> <p>details (1) 69:8</p> <p>detected (1) 57:14</p> <p>determination (2) 4:7;14:5</p> <p>determine (2) 14:4;20:2</p> <p>determined (1) 11:2</p> <p>determining (1) 7:17</p> <p>develop (1) 67:5</p> <p>developed (1) 23:6</p> <p>developing (2) 19:22;62:23</p> <p>development (10) 13:1;17:20;36:24; 37:2,3,8;61:4;62:3; 64:18;69:18</p> <p>diet (2) 34:7,8</p> <p>differ (1) 9:23</p> <p>different (5) 9:15;17:22;32:10; 44:8,23</p> <p>diligently (1) 35:6</p> <p>dime (1) 72:16</p> <p>dimensions (1) 17:5</p> <p>diminish (2) 55:10,22</p> <p>diminished (1) 56:1</p> <p>direct (1) 58:18</p> <p>directed (3) 7:6;29:2;38:21</p>
D				
		<p>daily (1) 71:9</p> <p>dairy (3) 55:18,20;59:3</p> <p>damage (1) 27:10</p> <p>Danville (1) 16:6</p> <p>data (7) 20:15;23:16;31:1; 32:20;36:15;72:1,4</p> <p>date (1) 13:20</p> <p>David (3) 15:12;16:5;40:8</p> <p>Dawson (1) 57:4</p> <p>day (7) 27:23;29:21;45:24;</p>		

<p>directing (1) 38:4</p> <p>direction (1) 60:18</p> <p>directly (4) 30:23;31:12;35:21; 55:6</p> <p>director (6) 3:2;4:20;8:10,15; 64:12;66:22</p> <p>disappear (1) 53:22</p> <p>discover (1) 65:22</p> <p>discuss (3) 7:13;46:17;69:13</p> <p>discussion (1) 4:15</p> <p>discussions (1) 68:11</p> <p>disease (1) 57:19</p> <p>disposal (1) 19:13</p> <p>disruptive (1) 25:17</p> <p>disseminating (1) 21:15</p> <p>distance (6) 11:9,11;44:15; 45:19;70:7;71:20</p> <p>distances (3) 22:16,17;34:21</p> <p>District (1) 64:12</p> <p>diversions (1) 29:1</p> <p>divert (1) 29:10</p> <p>document (1) 19:4</p> <p>documentation (2) 20:22;55:1</p> <p>documents (1) 13:4</p> <p>dollars (1) 67:17</p> <p>done (4) 28:18;39:21;55:1; 62:7</p> <p>door (1) 6:8</p> <p>dormant (1) 47:12</p> <p>dotted (1) 55:2</p> <p>double (2) 34:24;35:1</p> <p>down (10) 40:22;41:8,10,16; 44:12;48:2;53:16; 55:14;62:22;72:23</p> <p>drag (1) 32:9</p> <p>drainage (1) 25:18</p> <p>drank (1) 54:1</p> <p>draw (1) 44:12</p> <p>drawn (1) 55:17</p> <p>dread (1) 72:10</p> <p>drink (2) 71:5,7</p> <p>drinks (2) 71:8,8</p> <p>drive (2) 49:19;63:14</p> <p>dry (2) 57:3;59:9</p> <p>Duane (1) 50:18</p> <p>duck (2) 54:8,8</p> <p>due (1) 13:15</p> <p>During (7) 5:11;6:12;20:3; 31:15;50:24;51:20; 58:4</p> <p>dust (4) 33:12,18;34:1,3</p>	<p>50:14;72:12</p> <p>eggs (1) 42:18</p> <p>eight (9) 12:11;14:4;16:22; 17:12;22:9;36:20; 37:14;59:2;60:21</p> <p>either (4) 6:22;44:18;55:19; 70:16</p> <p>elaborate (2) 43:24;45:17</p> <p>elapsed (1) 6:5</p> <p>electronic (1) 37:20</p> <p>else (7) 6:24;15:21;40:11; 53:17;55:23;72:21; 73:16</p> <p>emanating (1) 34:5</p> <p>embrace (3) 62:4,6;63:24</p> <p>emergency (1) 32:2</p> <p>emotion (1) 73:11</p> <p>emotional (2) 69:13;72:6</p> <p>employment (1) 60:10</p> <p>empty (1) 46:16</p> <p>encountered (1) 51:4</p> <p>encourage (1) 64:22</p> <p>end (3) 29:22;32:5,5</p> <p>engineer (3) 16:12;29:7;43:20</p> <p>engineering (1) 12:1</p> <p>Engineers (1) 16:16</p> <p>enhancement (2) 60:1;64:22</p> <p>enjoy (2) 54:9,10</p> <p>enjoyed (1) 55:9</p> <p>enough (1) 48:8</p> <p>ensure (4) 3:23;4:1,9;33:23</p> <p>ensures (1) 65:12</p> <p>enter (4) 5:22;51:18;52:6; 73:20</p> <p>entered (6) 4:2;6:2;14:22;15:4;</p>	<p>37:17;51:21</p> <p>entertain (1) 63:22</p> <p>entertaining (1) 37:15</p> <p>entire (2) 61:17;67:15</p> <p>entrance (1) 52:13</p> <p>entry (1) 14:12</p> <p>environment (3) 21:3;65:8;68:17</p> <p>Environmental (5) 16:16;17:17;24:24; 27:9;65:21</p> <p>environmentally (1) 19:21</p> <p>equal (1) 24:13</p> <p>equipment (1) 32:1</p> <p>equitably (1) 9:24</p> <p>Equity (1) 40:13</p> <p>especially (1) 55:23</p> <p>essence (1) 47:11</p> <p>essential (1) 20:23</p> <p>essentially (1) 66:24</p> <p>established (2) 24:3;34:21</p> <p>evaluation (1) 57:16</p> <p>even (3) 44:23;47:19;48:6</p> <p>evening (13) 3:1,5,23;4:11;7:13; 8:13;12:9;16:14,20; 51:12;64:11;66:21; 73:16</p> <p>evenings (1) 54:10</p> <p>evening's (4) 8:21;12:16;13:9,23</p> <p>everybody (1) 71:2</p> <p>everyone (3) 16:14,17;52:8</p> <p>evolved (1) 65:4</p> <p>exact (1) 33:7</p> <p>exactly (1) 20:13</p> <p>exam (1) 23:10</p> <p>example (6) 21:22;22:2;27:20;</p>	<p>32:21;47:21;49:6</p> <p>examples (1) 32:6</p> <p>exceed (2) 37:10;71:16</p> <p>exceeded (4) 22:20;24:21;34:23, 24</p> <p>exceeds (3) 16:23;18:15;34:20</p> <p>excellent (1) 60:3</p> <p>excess (3) 27:17;29:8;34:12</p> <p>exciting (1) 62:23</p> <p>excreted (1) 34:12</p> <p>excuse (3) 10:8;21:2;35:23</p> <p>executive (1) 66:22</p> <p>exhibit (8) 14:13,15,22;15:4; 37:18;52:6;73:20,23</p> <p>existing (8) 7:14,18;9:19;12:22; 35:17;36:23;37:7; 50:20</p> <p>expanded (1) 46:15</p> <p>expanding (1) 66:10</p> <p>expansion (1) 9:19</p> <p>expense (1) 57:18</p> <p>expensive (2) 41:9,22</p> <p>experience (1) 69:21</p> <p>experts (1) 31:23</p> <p>explain (2) 4:10;58:23</p> <p>expressed (1) 9:16</p>
E			
<p>E4 (4) 8:3;16:9;46:9; 70:14</p> <p>earlier (5) 10:21;24:15;44:1; 67:3;74:4</p> <p>east (8) 10:14;17:2;35:21; 53:8;58:10,13,15; 59:4</p> <p>easy (2) 25:13;43:15</p> <p>economic (5) 13:1;36:24;37:2; 55:13;67:7</p> <p>economy (2) 60:7;64:20</p> <p>educate (1) 23:6</p> <p>effect (1) 35:17</p> <p>effective (1) 47:23</p> <p>efficient (2) 34:9,14</p> <p>efficiently (1) 33:24</p> <p>Effingham (5) 40:13;49:17,22;</p>			
F			
			<p>Facilities (25) 3:16;4:18;5:5;8:19; 9:1,3,15,20;11:21; 12:14;16:8;18:15; 21:5,8;41:4;47:18; 48:6;49:10;56:1;57:8; 59:6;60:9;64:24;65:9; 69:21</p> <p>facility (62) 3:22;4:8;5:8;7:2,6, 6,17,23;8:3;9:9,11,13, 17,18,18,22;10:6,19; 11:8,23;12:3,18,19,</p>

<p>22,24;13:13;15:8; 17:19;25:3;34:20; 35:13;37:19,24; 38:12;40:22;41:1; 42:10;46:24;47:3,6, 10,11,13,16,20,21,24; 48:19;49:2;55:5,18; 56:3;57:20;58:2,8,10, 12,14;60:15,20; 65:20;74:1 facility's (2) 8:23;12:11 fact (1) 47:18 facts (1) 69:24 fairly (1) 9:24 fall (6) 27:22,23;28:7; 30:18,19;62:15 falling (1) 53:16 familiar (1) 29:18 family (5) 16:7;53:14;54:11; 61:16;63:4 fans (3) 33:17,23,24 far (2) 26:20;71:16 farm (85) 16:21,23;18:13,15; 19:6,8,11,13,14;20:3; 21:20;22:24,24,24; 23:2,13,17,17,21; 24:6,23;27:15,17; 28:12,17;29:12; 30:12;31:10;32:12, 15;33:9,13,19,22,23; 34:5,8,12,20;35:4,6,9, 20;36:4,7,14,17,20, 22;37:7,10,13;41:15, 23;42:12;46:15,19; 49:21;54:7,7,8;55:10; 57:22;59:21,21,24; 60:14,24;61:2,17,18; 63:23;64:13,14,17; 66:12;67:17,19;70:8, 14;71:6,11,16;72:24; 73:7 farmed (1) 54:11 farmer (1) 67:13 farmers (6) 59:22;66:9;67:1; 68:6,9;72:9 farming (1) 44:3 farms (20) 23:8;41:5,22;44:2,</p>	<p>11;45:20;49:6;55:7; 60:18;62:9;64:19; 65:2,5,11,12;69:18; 70:12;71:12,22;73:1 farm's (1) 34:13 fashion (3) 3:24;19:7,21 feed (12) 30:15;33:3;34:14; 36:8;40:16;49:16,19, 24;58:2,5;64:1,4 feeders (1) 63:17 feeding (2) 33:3;40:9 feel (1) 63:11 feet (24) 10:9,9;11:10,11; 17:6,7;24:19,20;25:2; 26:9,10,13;34:23; 35:1;44:7;46:10; 50:21,24;51:9,10; 53:20;58:15;63:16; 71:20 FEMA (1) 25:7 fertilized (1) 28:20 few (5) 8:24;63:10,13; 69:15;70:3 field (6) 20:18;30:18,20; 34:10;45:21;51:5 fields (4) 20:5;23:20;28:17; 30:23 figure (1) 62:7 file (3) 14:12;19:14;47:4 filed (1) 18:7 Finally (1) 13:8 financial (1) 9:12 financially (1) 57:17 find (3) 26:19,20;64:3 finding (1) 31:4 finishing (4) 10:9;16:9;21:21,23 First (11) 4:11,16;15:16; 16:17;20:3;29:22,23; 53:1;57:6,7;67:23 five (10) 9:9;25:2;26:9,13;</p>	<p>27:1,5,7;32:16;59:4; 71:8 flies (3) 42:4,18,22 Floodplain (6) 17:16;24:22,24; 25:7,11,15 floodplains (1) 12:20 floor (2) 22:13;33:16 flooring (1) 22:8 flows (1) 35:17 fly (2) 42:12,19 folks (5) 69:7,15,22;70:17; 71:2 follow (1) 48:13 followed (1) 13:9 following (8) 4:12,16,24,24;5:19; 6:2,6;12:15 follows (1) 13:10 food (1) 65:7 foot (12) 10:8,10;22:9;26:13; 27:1,4,5;44:21;51:3, 6;61:19,20 footprint (4) 26:18,24;50:23,24 force (1) 60:4 Ford (7) 59:20,22,24;60:14; 61:2;64:13;72:17 Forest (1) 50:1 form (1) 19:9 formal (4) 10:4;11:24;14:12, 15 formations (1) 26:3 forms (1) 42:16 formulated (1) 34:9 forth (5) 25:4;27:14;30:6; 35:22;66:2 forward (4) 14:18;37:14;73:9, 18 forwarded (1) 11:3</p>	<p>four (5) 24:22;32:16;54:4; 55:17;59:4 fractured (1) 26:10 frame (1) 28:3 Frank (1) 16:16 further (2) 11:15;51:12 future (3) 66:7;68:8,18</p>	<p>government (1) 37:3 governs (1) 65:10 grade (1) 29:15 graduated (1) 61:21 grain (4) 58:4;60:2,13;72:8 grandfather (1) 53:14 gravel (2) 26:11,12 Great (5) 16:18;53:14;61:22; 67:20;70:20 greater (2) 10:20;24:12 green (1) 24:8 grew (2) 44:2,3 ground (2) 53:13;62:11 group (2) 69:5,18 grow (1) 40:15 growing (2) 61:21;63:16 grown (5) 19:20;61:16;63:4, 23;65:5 growth (5) 12:24;36:23;37:1; 60:1;64:22 guess (2) 57:1;58:10 guessing (1) 58:12 guidance (1) 21:12 guidelines (1) 21:8 guys (4) 42:5;43:2;45:24; 50:19</p>
G				
<p>gallon (5) 62:8,13,16,17; 71:17 gallons (8) 45:24;46:5,8,10; 59:7;71:9,10,13 gave (1) 36:5 general (2) 12:14;59:21 generally (1) 9:8 generation (1) 67:4 generations (4) 65:6;66:7;68:8,18 gentlemen (1) 49:14 geological (4) 26:2,5;39:13;72:3 gets (2) 41:16;46:21 Gibson (13) 48:22,22;49:1,3; 53:2,3,3,4,7;54:13,14; 70:12,18 G-I-B-S-O-N (2) 48:22;53:3 given (6) 5:2,9;6:15,17; 30:10;54:24 gives (1) 50:8 goal (3) 19:17,21;25:5 goes (6) 19:5;22:11;34:15; 41:13;44:14;58:24 Goetsch (13) 4:17;5:1;8:10,13, 14;14:21;17:6;18:6; 21:21;22:20;46:20; 48:14;49:5 Good (9) 3:1;8:13;16:14; 22:2;62:5;64:11; 66:21;68:10,17</p>	<p>HAAG (10) 45:7,7,11,16;61:7,9, 13,15;64:5;67:3 H-A-A-G (2) 45:7;61:9 half (3) 22:4;24:20;54:4 hand (3) 13:6;38:2;53:5 Handbook (1) 21:12 handling (4)</p>			
H				

<p>11:23;12:3;23:7; 25:3 handwritten (1) 52:1 happen (2) 41:11,22 happening (1) 53:9 happens (2) 57:2,19 happy (1) 70:18 hard (1) 68:16 Harold (1) 42:3 hat (1) 69:11 hatched (1) 25:12 hatching (1) 25:9 haul (2) 58:4;68:15 head (1) 10:20 hear (5) 8:22;15:7;16:18; 39:1;63:17 heard (2) 45:13;60:23 hearing (7) 3:8;14:9,18,20; 57:6,10;58:11 heck (1) 64:2 held (1) 3:17 help (1) 69:8 hereby (1) 74:9 here's (1) 32:7 hey (1) 68:1 Hi (2) 15:12;16:5 Historically (2) 20:3,9 hog (12) 16:7;38:22;43:2; 54:7,7,8;55:9;57:22; 61:16;62:8,16;67:13 hogs (6) 58:2,5,6;59:6; 67:14;69:19 hold (3) 13:6;27:16;65:5 holding (1) 10:11 home (2) 53:24;58:18</p>	<p>homes (4) 57:16;65:3;67:8,15 hope (10) 43:10;53:23,23; 56:6,22;69:6;70:1,13; 73:2,6 hoping (1) 67:4 Horace (4) 40:14;49:23;50:2; 72:11 hospitality (1) 8:1 hot (1) 28:22 house (2) 53:16;58:14 huh (1) 42:22 hundred (2) 25:15;32:16 huts (1) 63:9</p> <hr/> <p style="text-align: center;">I</p> <hr/> <p>ice (1) 54:2 icy (1) 54:3 ideal (1) 60:5 identified (2) 37:2;52:22 identify (1) 38:20 idle (1) 47:2 idyllic (1) 43:6 Illinois (38) 3:2,7;4:6,20;7:3; 8:11,15;10:15;16:9; 18:13;21:24;24:10; 26:2,5;36:2,15;39:12; 40:13;44:3;49:23; 50:1;60:19;62:23; 64:1,1,13,17,20,23; 66:6,12,23;67:2; 69:17;72:3,12,15; 73:2 Illinois's (1) 72:24 impact (10) 12:18,22,23;17:17; 35:14;40:1;44:13; 71:17,21,24 impacted (1) 73:1 impactful (1) 73:2 impacts (2) 9:14;17:19</p>	<p>implement (2) 18:17;30:12 importance (1) 72:22 important (9) 18:12,20;27:12,19, 20;33:11;34:1,7;63:2 importantly (1) 56:9 inadequacies (1) 7:14 inch (3) 10:9;62:12,15 inches (5) 17:7;29:22,24;54:4; 62:14 include (2) 19:24;33:14 included (1) 60:23 including (5) 13:21;14:23;64:18, 20;65:20 incompatibility (1) 23:24 incorporate (3) 30:9;34:8;35:10 incorporates (1) 35:11 incorporating (1) 35:7 incorporation (1) 20:21 incorrect (1) 53:13 Indiana (8) 35:22;36:14;49:20; 50:16;55:18;59:1,1; 72:13 indicate (1) 38:3 indicative (1) 71:18 individuals (1) 67:18 industry (4) 10:1;60:1;64:23; 66:11 influence (2) 39:22;44:14 information (11) 7:16,21;12:14; 13:20;14:1;15:9;19:2, 5;60:24;65:23;70:23 informational (8) 3:9,16;7:19;8:21; 11:14;15:1;51:14; 74:8 infrastructure (1) 60:3 initial (1) 39:11 inject (1)</p>	<p>68:4 injecting (1) 30:20 injection (6) 31:11,16;32:7,8,11; 35:5 innovative (2) 30:10;35:12 inoperative (1) 57:20 inside (4) 21:24;22:1;28:23; 67:22 inspection (1) 19:16 inspections (1) 65:24 instances (1) 67:8 insure (1) 33:15 intends (1) 31:10 intensity (1) 34:6 intent (9) 10:5,22;13:21; 14:11,23;18:6,7; 22:21;25:5 intention (1) 9:24 interest (1) 68:20 interested (1) 48:1 interests (2) 34:13;66:10 interpretation (1) 72:2 into (27) 4:2;5:23;6:2;14:12, 22;15:4;17:7;21:5; 23:15;24:18;29:6; 30:23;31:12;32:19; 37:18;41:18;47:2,12; 49:21;51:18,21;52:6; 55:21;64:1;66:5; 73:20,23 invested (1) 41:23 invitation (1) 3:4 invite (1) 8:6 inviting (1) 8:1 involved (1) 66:8 involving (1) 37:1 Iowa (1) 16:8 Iroquois (26)</p>	<p>3:4,17;4:5;10:15; 11:4,13;13:14;15:2; 24:5;50:12;59:20,23, 24;60:2,4,8,14;61:2,5; 64:13,15,21;66:6; 67:5,11;72:17 irrigation (1) 71:14 I's (1) 55:3 issue (2) 31:14;45:12 issues (4) 28:8,24;44:6;69:14</p> <hr/> <p style="text-align: center;">J</p> <hr/> <p>JAMES (18) 15:12,12,19,23; 16:5,5,15;40:12,21; 42:12,23;46:7;49:22; 50:2,4,8,13;74:2 J-A-M-E-S (1) 15:19 January (1) 57:24 Jennifer (3) 66:16,17,22 job (2) 31:22;68:17 jobs (2) 60:9,11 John (2) 3:2;40:7 Johnstone (2) 3:11;4:12 joint (2) 29:19;30:1 joints (1) 29:17 July (3) 11:12;18:8,10 June (8) 10:6,23;11:2;18:9, 9,10,11;22:22</p> <hr/> <p style="text-align: center;">K</p> <hr/> <p>Kankakee (1) 64:14 karst (4) 25:1,16;26:4,6 karstified (1) 25:19 keep (7) 7:12;19:11;38:11; 41:6;52:10,11;63:2 keeping (1) 20:23 kids (2) 61:17;63:15 kind (3) 28:21;46:15,16</p>
---	---	--	---	---

<p>kinds (1) 48:4</p> <p>known (2) 25:1;34:6</p> <p>KRIMM (9) 42:3,3,6,8,11,21; 45:23;46:3,3</p> <p>K-R-I-M-M (1) 42:8</p> <p>KWAK (4) 40:21,21,24;41:2</p> <p>K-W-A-K (1) 40:21</p>	<p>leave (4) 33:22;50:13;53:22; 71:6</p> <p>leaving (1) 63:1</p> <p>Legal (1) 6:16</p> <p>legitimate (1) 45:3</p> <p>less (10) 11:10,11;18:16; 32:18;34:16,17; 36:12;39:17;63:10; 67:21</p> <p>letter (1) 52:1</p> <p>level (3) 12:7;68:5;71:20</p> <p>life (5) 55:9,11,23;61:17; 63:24</p> <p>likelihood (1) 27:9</p> <p>likely (2) 17:22;44:22</p> <p>limit (2) 5:17;38:10</p> <p>limited (2) 38:6;66:9</p> <p>limits (1) 36:18</p> <p>line (5) 22:7;32:9;36:14; 55:6,16</p> <p>liquid (1) 27:16</p> <p>listed (1) 60:22</p> <p>listing (1) 52:13</p> <p>little (13) 17:9;23:15;32:17; 43:6,6;44:1;45:18; 61:14;62:10;71:4,5,7, 8</p> <p>live (6) 54:9;55:4,17;57:5; 61:15;64:15</p> <p>lived (4) 43:4,5;55:8;57:12</p> <p>livelihood (3) 68:7,8,16</p> <p>lives (1) 63:18</p> <p>Livestock (58) 3:15,22;4:14,18; 5:5;7:16;8:19;9:1,3, 20;10:1,11,18;11:21, 22;12:2,10,13;18:4, 12,14;19:13;21:4,7; 23:1,3,6;25:3;28:13, 22;29:13;30:4;31:11, 19;32:13;36:17;48:5;</p>	<p>49:9;60:1,5,6,9,15,18; 62:1;63:23,24;64:19, 23;65:9,11,12;66:5, 10;69:11,17,20;72:14</p> <p>Livingston (1) 64:14</p> <p>LMFA (7) 21:7;46:17;47:23; 60:15;61:1;66:2,4</p> <p>loading (3) 19:19;20:17;30:24</p> <p>local (6) 32:14;39:13;40:9; 60:11;72:8,14</p> <p>locally (4) 19:20;32:13;60:12; 72:23</p> <p>located (5) 10:13;12:20;17:4; 24:23;50:3</p> <p>location (11) 17:14,15;21:2; 22:15,15;23:24; 30:15;34:19;35:4,19; 70:16</p> <p>logically (1) 73:12</p> <p>long (5) 17:7;25:19,20; 42:13;68:15</p> <p>longer (1) 47:20</p> <p>look (15) 14:18;20:6,9;21:22; 22:3;24:18;25:8,23; 26:19;32:7;35:9; 37:14;71:14,23;73:3</p> <p>looked (1) 39:11</p> <p>looking (1) 16:10</p> <p>lot (9) 19:1,2;53:15;61:13; 67:18;69:18;70:2; 71:7;72:9</p> <p>loud (1) 16:19</p>	<p>major (1) 9:9</p> <p>majority (1) 59:22</p> <p>makes (1) 72:19</p> <p>making (1) 4:6</p> <p>Management (36) 3:15;4:18;5:5;8:19; 9:1,3,10,20;11:21; 12:11,13,17;18:4,11, 15,18,22,23;19:3,10, 12,18,23;21:4,8;23:7, 12;28:19;30:15;33:6; 49:9;55:15;60:15; 65:9,21;69:20</p> <p>manager (4) 3:11;22:24;23:1,3</p> <p>managers (2) 23:6,8</p> <p>Manure (52) 12:17;19:7,18;20:1, 2,6,10,11,15,17,18; 21:11;22:10,10;23:7, 18,19;27:16,24;28:11, 11,13,16;29:13;30:5, 14,16,18,21,21;31:3, 12,17,19,22,24;32:8, 11,13,22;33:6,15; 35:5;42:16;47:10; 48:15,16,18;65:21; 68:3,3,5</p> <p>many (12) 29:22,23;33:8; 42:22;45:8,11,24; 46:5;57:4;62:24;65:3; 67:8</p> <p>map (4) 24:8;25:7,23;26:4</p> <p>maps (1) 72:5</p> <p>Mark (3) 52:4,6;56:12</p> <p>market (2) 58:6;72:19</p> <p>markets (1) 60:12</p> <p>Mary (2) 54:16,17</p> <p>material (4) 5:24;25:2;26:8; 31:8</p> <p>maximum (1) 10:18</p> <p>may (16) 5:14,17;6:6,22,23, 24;9:4;16:3;37:23; 39:20;54:19;56:18; 59:17;61:11;64:9; 69:2</p> <p>mean (4) 23:4;28:14;48:4;</p>	<p>69:22</p> <p>means (4) 25:14,20;27:23; 31:20</p> <p>meet (8) 19:19;30:5;37:10; 60:21;61:1;65:20; 66:2;73:7</p> <p>meeting (33) 3:9,14,16,24;4:3,4, 11,24;5:7,16;6:5;7:1, 19;8:22;11:14,17,18; 12:16;13:9,11,23; 14:19;15:2;37:22; 38:5;51:14;52:8; 65:15;69:6,20;70:11; 73:22;74:8</p> <p>meets (3) 5:4;16:23;23:2</p> <p>members (3) 3:18;7:22;8:6</p> <p>membrane (2) 29:21,23</p> <p>mentioned (9) 10:21;16:15;17:6; 18:6,21;21:21;22:20; 23:14;74:3</p> <p>merits (1) 7:13</p> <p>met (6) 14:5;18:1,5;22:16, 19;37:13</p> <p>method (1) 31:11</p> <p>methods (1) 29:14</p> <p>microphone (2) 39:2;52:17</p> <p>Midwest (4) 18:13;21:11,12; 44:2</p> <p>might (5) 37:15;46:16,18; 62:16;72:16</p> <p>Mike (5) 45:7,24;61:7,15; 67:2</p> <p>mile (9) 24:19,20;39:16,17, 20;44:10;57:5;62:12; 67:22</p> <p>miles (4) 10:14;55:17;59:4; 61:15</p> <p>milk (1) 59:5</p> <p>mill (3) 40:14,17;49:22</p> <p>million (7) 59:7;60:7;62:8,13, 16,17;71:13</p> <p>mind (4) 6:23;7:12;38:11;</p>
L		M		
<p>lab (1) 20:12</p> <p>laboratory (1) 3:12</p> <p>lagoon (1) 9:12</p> <p>land (6) 25:16,17;30:14; 54:22;56:6,8</p> <p>large (2) 19:4;60:2</p> <p>larger (1) 67:11</p> <p>largest (1) 31:15</p> <p>last (13) 5:13;7:8;15:10,18; 38:3,15;41:6;42:7; 52:3,18;56:13;61:8; 63:7</p> <p>lastly (1) 72:7</p> <p>late (3) 27:22;53:14;61:14</p> <p>later (1) 29:21</p> <p>LAVICKA (9) 38:15,15,19,19,22; 39:3,7,17;40:2</p> <p>L-A-V-I-C-K-A (2) 38:16,19</p> <p>Lavicka's (1) 43:2</p> <p>law (1) 9:4</p> <p>laws (1) 7:15</p> <p>lawyer (1) 43:19</p> <p>lay (1) 42:18</p> <p>leaching (2) 27:11;29:12</p> <p>learn (1) 7:23</p> <p>least (2) 26:12;27:1</p>	<p>level (3) 12:7;68:5;71:20</p> <p>life (5) 55:9,11,23;61:17; 63:24</p> <p>likelihood (1) 27:9</p> <p>likely (2) 17:22;44:22</p> <p>limit (2) 5:17;38:10</p> <p>limited (2) 38:6;66:9</p> <p>limits (1) 36:18</p> <p>line (5) 22:7;32:9;36:14; 55:6,16</p> <p>liquid (1) 27:16</p> <p>listed (1) 60:22</p> <p>listing (1) 52:13</p> <p>little (13) 17:9;23:15;32:17; 43:6,6;44:1;45:18; 61:14;62:10;71:4,5,7, 8</p> <p>live (6) 54:9;55:4,17;57:5; 61:15;64:15</p> <p>lived (4) 43:4,5;55:8;57:12</p> <p>livelihood (3) 68:7,8,16</p> <p>lives (1) 63:18</p> <p>Livestock (58) 3:15,22;4:14,18; 5:5;7:16;8:19;9:1,3, 20;10:1,11,18;11:21, 22;12:2,10,13;18:4, 12,14;19:13;21:4,7; 23:1,3,6;25:3;28:13, 22;29:13;30:4;31:11, 19;32:13;36:17;48:5;</p>	<p>Mahomet (1) 58:24</p> <p>main (1) 46:23</p> <p>maintain (4) 18:17;47:3,5,6</p> <p>maintained (1) 47:15</p> <p>maintaining (1) 30:3</p> <p>maintenance (7) 30:14;33:10,12,13; 34:5;35:4;47:14</p>	<p>major (1) 9:9</p> <p>majority (1) 59:22</p> <p>makes (1) 72:19</p> <p>making (1) 4:6</p> <p>Management (36) 3:15;4:18;5:5;8:19; 9:1,3,10,20;11:21; 12:11,13,17;18:4,11, 15,18,22,23;19:3,10, 12,18,23;21:4,8;23:7, 12;28:19;30:15;33:6; 49:9;55:15;60:15; 65:9,21;69:20</p> <p>manager (4) 3:11;22:24;23:1,3</p> <p>managers (2) 23:6,8</p> <p>Manure (52) 12:17;19:7,18;20:1, 2,6,10,11,15,17,18; 21:11;22:10,10;23:7, 18,19;27:16,24;28:11, 11,13,16;29:13;30:5, 14,16,18,21,21;31:3, 12,17,19,22,24;32:8, 11,13,22;33:6,15; 35:5;42:16;47:10; 48:15,16,18;65:21; 68:3,3,5</p> <p>many (12) 29:22,23;33:8; 42:22;45:8,11,24; 46:5;57:4;62:24;65:3; 67:8</p> <p>map (4) 24:8;25:7,23;26:4</p> <p>maps (1) 72:5</p> <p>Mark (3) 52:4,6;56:12</p> <p>market (2) 58:6;72:19</p> <p>markets (1) 60:12</p> <p>Mary (2) 54:16,17</p> <p>material (4) 5:24;25:2;26:8; 31:8</p> <p>maximum (1) 10:18</p> <p>may (16) 5:14,17;6:6,22,23, 24;9:4;16:3;37:23; 39:20;54:19;56:18; 59:17;61:11;64:9; 69:2</p> <p>mean (4) 23:4;28:14;48:4;</p>	<p>69:22</p> <p>means (4) 25:14,20;27:23; 31:20</p> <p>meet (8) 19:19;30:5;37:10; 60:21;61:1;65:20; 66:2;73:7</p> <p>meeting (33) 3:9,14,16,24;4:3,4, 11,24;5:7,16;6:5;7:1, 19;8:22;11:14,17,18; 12:16;13:9,11,23; 14:19;15:2;37:22; 38:5;51:14;52:8; 65:15;69:6,20;70:11; 73:22;74:8</p> <p>meets (3) 5:4;16:23;23:2</p> <p>members (3) 3:18;7:22;8:6</p> <p>membrane (2) 29:21,23</p> <p>mentioned (9) 10:21;16:15;17:6; 18:6,21;21:21;22:20; 23:14;74:3</p> <p>merits (1) 7:13</p> <p>met (6) 14:5;18:1,5;22:16, 19;37:13</p> <p>method (1) 31:11</p> <p>methods (1) 29:14</p> <p>microphone (2) 39:2;52:17</p> <p>Midwest (4) 18:13;21:11,12; 44:2</p> <p>might (5) 37:15;46:16,18; 62:16;72:16</p> <p>Mike (5) 45:7,24;61:7,15; 67:2</p> <p>mile (9) 24:19,20;39:16,17, 20;44:10;57:5;62:12; 67:22</p> <p>miles (4) 10:14;55:17;59:4; 61:15</p> <p>milk (1) 59:5</p> <p>mill (3) 40:14,17;49:22</p> <p>million (7) 59:7;60:7;62:8,13, 16,17;71:13</p> <p>mind (4) 6:23;7:12;38:11;</p>

<p>41:6 minimal (1) 35:13 Minimize (4) 17:16,18;27:9; 35:16 minimizes (3) 23:24;33:12,21 minimizing (2) 31:13;34:1 minimum (1) 27:16 minute (4) 46:8,11;52:9;71:18 minutes (5) 6:15,18;52:20; 56:20,23 misleading (1) 32:18 Mississippi (1) 72:13 Missouri (1) 16:8 mistaken (1) 51:8 mitigation (1) 65:22 mixture (1) 26:12 modified (1) 9:18 money (3) 48:23;49:4,7 monitoring (1) 32:2 more (19) 17:8;19:2,2;23:15; 26:9,11;27:24;32:19; 34:23;35:1;41:17; 44:1;45:23;55:5,23; 57:8;66:5;69:8;72:19 morning (1) 54:6 most (6) 34:9,14;39:13,15; 45:20;56:9 move (4) 51:13;55:12;58:5; 73:8 moving (1) 63:24 Mrs (2) 54:15;70:11 much (14) 3:3;7:24;20:2,18; 31:4;33:8;41:23; 57:14,15;59:10; 62:14;63:10;68:20; 73:14 multiple (3) 6:17;29:4,9 multiply (1) 73:1</p>	<p>must (1) 60:20 myself (1) 54:21</p> <hr/> <p style="text-align: center;">N</p> <hr/> <p>name (27) 3:6;5:12,13;6:19; 7:8,8;8:14;15:9,10,12, 18;38:2,3,15;40:7; 42:7;46:2;52:3,3,17, 18;56:13;59:15,19; 61:8,15;66:21 Names (2) 40:21;52:15 nearly (1) 39:16 need (13) 28:4;38:12;45:23; 62:4,4,5,6;69:8,13,23; 70:6,15,21 needs (3) 19:20;31:5;70:22 neighbor (1) 67:21 neighbors (3) 67:21,24;68:1 new (9) 3:21;9:18;36:22; 41:22;47:12;60:12; 63:6;65:17;69:12 newer (1) 66:9 newspaper (1) 11:7 newspapers (1) 11:19 next (13) 29:21;47:7;51:13; 54:9,15;56:11;59:13; 61:6;64:5;66:3,15; 67:4;68:21 Nick (3) 46:13;68:22,23 nickel (1) 72:16 night (1) 63:17 nitrogen (2) 30:24;31:4 nonbinding (1) 13:12 None (4) 8:8;52:22;61:20; 73:18 north (6) 36:13;43:5;49:15, 21;55:4;58:11 northwest (1) 25:24 Northwestern (1) 59:1</p>	<p>note (1) 18:21 notice (15) 10:5,22;11:3,6,13, 17;13:21;14:10,23; 18:5,7,21;22:20;25:5; 70:13 Notices (1) 15:1 notify (1) 14:6 number (11) 5:15;17:13,21; 27:14;33:1,7;39:24; 62:9,18,20;67:14 numbers (1) 36:3 numerous (1) 35:8 Nutrient (12) 18:11,18,21,23; 19:3,10,12,17,23; 20:13;28:19;35:3 nutrients (2) 34:10,12 nutrition (1) 35:5</p> <hr/> <p style="text-align: center;">O</p> <hr/> <p>objective (1) 65:13 obtaining (1) 26:16 Obviously (3) 32:22;41:7;49:19 occupied (2) 22:18;24:18 o'clock (1) 53:10 October (1) 13:19 Odor (23) 12:21;17:17;30:7,8, 10,13;31:15;33:11,21, 21;34:2,4,6,17,17,19; 35:3,7,8,13;55:15,20; 65:22 odors (2) 34:11;55:16 off (2) 4:15;37:21 offered (1) 51:23 officer (3) 3:8;14:9,20 official (1) 11:13 officials (2) 15:3;24:11 old (3) 53:15;63:8;69:10 older (1)</p>	<p>33:2 Once (4) 14:5;20:11;46:24; 57:2 One (38) 6:9;8:16;10:8,14; 13:5;17:13,21,23,24, 24;18:20;21:21;22:2, 3;23:9;24:20;27:14; 29:20;31:14;32:9; 37:4;39:16;41:14; 45:14,15,23;46:4,7; 53:12,22;54:9;62:11, 12,12,15;67:6,9;70:24 ones (1) 59:2 only (13) 28:15,15,18;33:8; 38:6,11;51:24;55:4, 21;58:7,8;61:20;62:3 open (6) 5:6;25:22;26:3; 37:22;38:13;60:12 operate (4) 30:1;33:24;35:13; 41:24 operated (1) 47:1 operating (3) 33:4;60:17;65:11 operation (8) 17:15;18:19;21:3; 22:23;23:13;27:8; 37:3;38:22 operator (2) 9:11;27:8 opportunities (3) 60:10;63:20;66:8 opportunity (10) 3:19;5:2,10;7:21; 37:12;61:3;65:15; 66:7,13;68:19 opposed (2) 56:3,5 oral (20) 3:19;5:15,22;6:1,2, 7,12,13,13,22;7:9; 38:9;51:17,20,21; 52:14,24;73:17,20,21 orange (1) 61:21 order (1) 4:9 orderly (2) 3:24;4:10 organization (1) 59:21 organization's (1) 64:21 originally (1) 9:4 originating (1) 33:13</p>	<p>others (1) 74:5 otherwise (1) 24:24 out (31) 13:4;16:17;26:18, 20;28:6;30:18,19,21; 31:4;34:17;40:13; 41:19,19;42:12,18,19; 46:10;48:11;53:15, 22;58:2;59:3,7;62:19; 69:16;70:6,11;71:15; 72:2,18;73:12 outline (1) 4:22 outlined (2) 22:17;65:18 outside (8) 16:10;22:12;28:11, 16;43:4;44:9;54:10; 63:14 over (15) 8:10;16:11;23:8; 28:8;35:21;44:9; 49:14,15,20;50:10,19; 55:19;65:2;71:11; 73:1 overall (2) 34:11;35:7 overview (5) 4:13,17;16:21;17:1, 4 own (2) 53:7;56:9 owned (3) 16:7;53:13;56:7 owner (2) 27:7;47:12 owners (4) 14:1;54:22;56:6,8</p> <hr/> <p style="text-align: center;">P</p> <hr/> <p>package (1) 53:11 paid (2) 31:23;54:11 paragraph (1) 12:13 park (3) 33:5;57:5,17 Parks (12) 3:22;8:2;10:17; 15:13,13;16:6,9; 36:17;53:8;54:22; 57:18;69:5 part (13) 5:21;6:1;17:11; 18:12;20:23;22:14; 23:12;26:15;34:7; 44:11;48:10;52:24; 70:10 particles (4)</p>
--	--	--	--	---

<p>33:22;34:3,17,18 particular (4) 4:19;7:16;22:21; 38:12 parts (1) 17:22 pass (2) 6:23;23:10 passed (1) 9:4 path (1) 58:18 pattern (3) 35:20,23;51:5 patterns (4) 12:23;17:18;35:16, 16 peer (1) 21:15 people (7) 5:15;6:11,13;48:1; 52:14;67:12;70:2 per (5) 46:6,8,11;59:8; 71:10 perceived (1) 7:14 percent (2) 36:12;63:8 perimeter (1) 51:6 period (3) 13:18;47:2;48:7 permanent (1) 60:10 permeability (1) 30:5 person (2) 6:14;53:1 personally (1) 70:17 personnel (1) 32:3 persons (1) 6:19 perspective (2) 62:10,21 pertain (1) 38:12 pesticide (1) 3:12 petty (1) 42:4 phase (6) 5:16,17,18,20;6:12; 66:3 phases (1) 20:22 phone (1) 54:5 phosphorus (2) 30:24;31:5 pictures (1)</p>	<p>54:5 pig (4) 67:1;68:6;71:8,10 piglet (1) 71:7 pigs (4) 41:16;63:5,17;71:4 pin (1) 17:3 pipe (1) 54:3 pit (7) 20:11;22:13;27:2; 30:19;31:3;42:16,17 pits (1) 29:6 pivots (1) 59:2 place (4) 29:1,21;42:17; 66:11 placed (5) 5:17;6:8;29:16; 30:22,23 placing (2) 30:20;31:12 plan (29) 18:4,11,18,22,24; 19:3,4,10,12,14,23, 24;20:20,22;21:11, 12;23:12,14,16,21; 28:19;30:13;33:6,11; 34:19;35:4,11;40:14; 41:7 planned (2) 35:6;37:8 planning (4) 9:10;12:17;19:18; 20:6 plans (10) 11:22;12:1,5,21; 13:22;27:8;30:8; 53:23;57:20;65:19 play (1) 63:15 plays (1) 64:19 Please (18) 7:12;8:3;15:9,17; 38:1,2,3,10,20;42:6; 52:2,16;53:4;56:13; 58:19;61:7;66:19; 68:2 plenty (1) 28:7 podium (1) 52:17 point (9) 6:5;14:14;15:5; 30:2;51:15;52:5; 55:16;70:11,21 points (1) 67:7</p>	<p>policy (1) 64:21 populated (4) 11:10;22:19;24:19; 34:24 population (1) 67:10 Pork (3) 66:23;67:4;71:3 portion (2) 38:5;73:22 Poskin (5) 64:6,7,11,12;66:15 P-O-S-K-I-N (1) 64:7 possibility (1) 40:18 Possible (3) 12:21,23;34:15 possibly (2) 40:16;47:24 posted (4) 36:18;50:9;57:24; 58:3 Potential (2) 12:17;28:8 pounds (4) 10:20;24:13;71:4,6 pour (5) 29:20,20,22,23,24 power (2) 14:14;15:5 precaution (1) 43:11 prepare (1) 18:17 prepared (2) 19:11;61:13 present (3) 3:19;14:14;26:13 presentation (6) 5:6;14:14;15:6; 37:18;41:17;71:23 presented (1) 65:18 presenting (1) 15:9 president (2) 16:16;59:20 pressure (2) 29:8;33:20 pretty (2) 37:6;43:8 Prevailing (1) 58:17 prevent (2) 29:13;33:17 prime (1) 27:20 print (1) 37:21 probably (1) 63:8</p>	<p>problem (4) 16:19;42:13,24; 45:5 problems (1) 43:17 procedures (1) 60:17 proceed (11) 4:11,24;16:3;54:19; 56:18;59:17;61:11; 64:9;66:3,19;69:2 proceeding (2) 5:23;7:20 proceedings (1) 8:9 process (4) 4:10,23;13:8;46:17 processes (1) 70:3 produced (2) 20:2;60:12 Producers (2) 66:23;67:4 production (4) 60:5,6;66:5;71:3 profit (1) 57:18 program (2) 23:5;41:12 project (12) 4:19,23;5:2,3;9:2; 10:4,7,13;65:17;66:1; 70:23;73:8 projects (2) 36:24;39:21 project's (1) 12:2 promoting (1) 56:4 proof (1) 70:1 proper (2) 27:14;35:5 property (9) 53:7,8,19;54:10; 55:11,13,21;56:7,10 proposal (2) 11:15;14:19 propose (1) 41:9 proposed (35) 3:20;4:7;5:1,7;16, 23;8:2,22;9:2,17; 10:6,7,13,19;11:8; 12:2,10,18,19,22,24; 13:13;16:21;17:3,5; 21:3;22:23;27:1; 54:23;55:5;56:6;57:7; 65:16,19;66:1;71:12 proposing (1) 26:16 protect (3) 21:3;65:8;68:17</p>	<p>protecting (1) 25:6 protection (2) 17:16;45:22 protections (1) 65:21 proteins (1) 34:10 proven (3) 20:3,7,9 provide (10) 4:13,17;6:11,15; 7:21;38:9;52:14; 60:10;61:3;73:17 provided (3) 64:23;65:15;74:4 provides (3) 19:1,6;60:16 providing (2) 6:13;60:8 provision (1) 46:23 provisions (11) 4:13,17;8:18,24; 9:14,21;10:24;20:20; 49:4,9;61:1 proximity (1) 60:2 public (12) 3:9,18;6:8;7:10,19, 23;8:21;11:14;15:1; 38:8;65:16;74:8 publications (1) 21:16 published (2) 11:7,18 publishing (2) 21:13,14 pudding (1) 70:2 pull (1) 59:7 pump (1) 53:21 pumped (2) 44:24;54:2 pumping (2) 32:5;45:15 purpose (2) 7:20;70:10 pursuant (1) 3:14 put (9) 20:18;29:1;42:12, 18,19;53:24;58:17; 62:9,20 puts (1) 27:5 putting (8) 20:6;28:17;29:8; 46:5,10;56:1,3;73:6</p>
--	---	--	---	--

<p style="text-align: center;">Q</p> <p>quacks (1) 54:7</p> <p>qualify (1) 23:9</p> <p>quality (4) 55:9,10,22;65:7</p> <p>quarter (4) 10:14;24:19;44:10; 67:22</p> <p>quick (1) 16:21</p> <p>quickly (1) 4:10</p> <p>quite (3) 9:21;39:20;67:11</p>	<p>receive (3) 7:15;12:9;13:7</p> <p>received (5) 4:2;10:4,22;11:12, 24</p> <p>recommendation (3) 13:12,14,24</p> <p>reconsider (1) 56:7</p> <p>record (15) 4:2,15;5:23;6:2; 14:13,22;15:4;20:23; 37:18;51:18,21;52:6; 61:8;73:20,23</p> <p>records (2) 19:12,15</p> <p>recourse (2) 43:15,18</p> <p>recreation (3) 13:1;36:23;37:1</p> <p>red (1) 24:9</p> <p>reduce (2) 34:4,6</p> <p>reduced (1) 63:8</p> <p>reducing (1) 34:12</p> <p>reduction (4) 17:18;30:8,10; 34:11</p> <p>reel (1) 32:8</p> <p>reenforced (2) 22:12;29:15</p> <p>reinforcement (1) 21:18</p> <p>referencing (1) 51:20</p> <p>referred (1) 51:17</p> <p>referring (1) 44:18</p> <p>regarding (9) 3:20;4:7;8:24;10:3; 11:15;12:10,14; 14:18;67:7</p> <p>registered (1) 53:11</p> <p>registration (3) 17:13;18:2,3</p> <p>Regular (5) 33:10,12,13,16; 34:5</p> <p>regulations (3) 7:14,18;10:1</p> <p>regulatory (1) 65:1</p> <p>reiterate (1) 28:23</p> <p>relates (1) 4:19</p> <p>relationship (4)</p>	<p>62:18;67:20;68:10, 12</p> <p>relative (1) 13:13</p> <p>release (4) 28:13,15,15;29:13</p> <p>relieve (1) 61:23</p> <p>remarks (4) 8:11;14:16;58:20; 74:1</p> <p>remember (4) 7:7;8:3;47:7;52:19</p> <p>remind (1) 38:4</p> <p>removal (1) 49:4</p> <p>remove (6) 34:4;47:9;48:13,15, 18,23</p> <p>removed (3) 41:14;51:1,7</p> <p>removing (1) 59:2</p> <p>renders (1) 57:19</p> <p>reopen (1) 47:13</p> <p>reporter (5) 5:13;15:10;52:18; 56:14;74:7</p> <p>represent (2) 64:13;67:1</p> <p>representatives (4) 5:1,8;8:23;37:19</p> <p>representing (2) 52:21;59:22</p> <p>request (3) 3:17;14:1;47:4</p> <p>requesting (1) 11:14</p> <p>require (1) 31:21</p> <p>required (9) 18:5;19:3;21:9; 23:9;24:18;26:17; 30:5;32:24;48:14</p> <p>requirement (4) 11:20;22:23;23:3; 51:2</p> <p>requirements (18) 9:11,13;12:8;16:24; 17:14;18:1,3,5;21:19, 19;24:3;26:15,23; 37:5,11;49:7;65:1; 73:8</p> <p>requires (2) 11:8;27:15</p> <p>research (1) 21:15</p> <p>residence (2) 22:18;24:18</p> <p>residential (2)</p>	<p>11:9;34:22</p> <p>residents (2) 57:15,17</p> <p>respect (1) 68:6</p> <p>response (1) 52:10</p> <p>responsibilities (1) 8:17</p> <p>responsibility (1) 9:12</p> <p>restart (1) 47:15</p> <p>retire (1) 53:24</p> <p>review (3) 12:4;13:20;14:3</p> <p>reviewed (2) 10:23;21:15</p> <p>right (9) 47:22,22;51:9; 52:10;53:5;55:4;57:7; 58:1;62:12</p> <p>right-hand (1) 25:8</p> <p>River (2) 72:13,20</p> <p>road (6) 36:3,6,13,18;50:9; 72:23</p> <p>roads (4) 50:12;57:21,24; 58:3</p> <p>rock (1) 25:19</p> <p>rodents (1) 42:19</p> <p>Roger (1) 49:13</p> <p>role (1) 64:20</p> <p>Ron (3) 59:13,15,19</p> <p>roof (1) 22:7</p> <p>room (3) 52:13;55:24;72:9</p> <p>root (2) 30:22;31:7</p> <p>Rosario (2) 3:11;4:12</p> <p>rotation (1) 32:17</p> <p>roughly (1) 27:5</p> <p>Route (7) 35:21;49:16,18,20; 50:7,8,11</p> <p>routine (2) 30:14;33:14</p> <p>rules (1) 65:13</p> <p>run (1)</p>	<p>50:9</p> <p>running (3) 28:8;33:7;59:6</p> <p>runoff (3) 27:10;28:21,24</p> <p>rural (4) 24:7;37:8;62:2,3</p> <p>Ruth (3) 48:22;53:2,3</p>
<p style="text-align: center;">R</p> <p>radius (2) 44:12,13</p> <p>rain (5) 29:2,3,10;62:12,15</p> <p>raise (2) 38:1;53:5</p> <p>Randy (2) 64:6,12</p> <p>rate (2) 31:6;45:15</p> <p>rates (6) 19:6,19;20:17; 28:19;30:24;48:16</p> <p>rather (1) 50:11</p> <p>ration (2) 34:14,14</p> <p>rations (1) 33:3</p> <p>readily (1) 31:8</p> <p>real (1) 62:20</p> <p>reality (1) 69:24</p> <p>realize (4) 53:9;69:10;70:12; 73:3</p> <p>really (14) 22:2;25:12,13; 27:12,21,21,22,22; 33:10;46:21,22; 63:24;69:13;71:2</p> <p>reason (5) 40:22;41:8;45:18; 46:23;53:21</p> <p>reasonable (3) 30:9,9;35:12</p> <p>reasons (2) 29:5,9</p> <p>rebar (1) 29:16</p>	<p>recreation (3) 13:1;36:23;37:1</p> <p>red (1) 24:9</p> <p>reduce (2) 34:4,6</p> <p>reduced (1) 63:8</p> <p>reducing (1) 34:12</p> <p>reduction (4) 17:18;30:8,10; 34:11</p> <p>reel (1) 32:8</p> <p>reenforced (2) 22:12;29:15</p> <p>reinforcement (1) 21:18</p> <p>referencing (1) 51:20</p> <p>referred (1) 51:17</p> <p>referring (1) 44:18</p> <p>regarding (9) 3:20;4:7;8:24;10:3; 11:15;12:10,14; 14:18;67:7</p> <p>registered (1) 53:11</p> <p>registration (3) 17:13;18:2,3</p> <p>Regular (5) 33:10,12,13,16; 34:5</p> <p>regulations (3) 7:14,18;10:1</p> <p>regulatory (1) 65:1</p> <p>reiterate (1) 28:23</p> <p>relates (1) 4:19</p> <p>relationship (4)</p>	<p>62:18;67:20;68:10, 12</p> <p>relative (1) 13:13</p> <p>release (4) 28:13,15,15;29:13</p> <p>relieve (1) 61:23</p> <p>remarks (4) 8:11;14:16;58:20; 74:1</p> <p>remember (4) 7:7;8:3;47:7;52:19</p> <p>remind (1) 38:4</p> <p>removal (1) 49:4</p> <p>remove (6) 34:4;47:9;48:13,15, 18,23</p> <p>removed (3) 41:14;51:1,7</p> <p>removing (1) 59:2</p> <p>renders (1) 57:19</p> <p>reopen (1) 47:13</p> <p>reporter (5) 5:13;15:10;52:18; 56:14;74:7</p> <p>represent (2) 64:13;67:1</p> <p>representatives (4) 5:1,8;8:23;37:19</p> <p>representing (2) 52:21;59:22</p> <p>request (3) 3:17;14:1;47:4</p> <p>requesting (1) 11:14</p> <p>require (1) 31:21</p> <p>required (9) 18:5;19:3;21:9; 23:9;24:18;26:17; 30:5;32:24;48:14</p> <p>requirement (4) 11:20;22:23;23:3; 51:2</p> <p>requirements (18) 9:11,13;12:8;16:24; 17:14;18:1,3,5;21:19, 19;24:3;26:15,23; 37:5,11;49:7;65:1; 73:8</p> <p>requires (2) 11:8;27:15</p> <p>research (1) 21:15</p> <p>residence (2) 22:18;24:18</p> <p>residential (2)</p>	<p>11:9;34:22</p> <p>residents (2) 57:15,17</p> <p>respect (1) 68:6</p> <p>response (1) 52:10</p> <p>responsibilities (1) 8:17</p> <p>responsibility (1) 9:12</p> <p>restart (1) 47:15</p> <p>retire (1) 53:24</p> <p>review (3) 12:4;13:20;14:3</p> <p>reviewed (2) 10:23;21:15</p> <p>right (9) 47:22,22;51:9; 52:10;53:5;55:4;57:7; 58:1;62:12</p> <p>right-hand (1) 25:8</p> <p>River (2) 72:13,20</p> <p>road (6) 36:3,6,13,18;50:9; 72:23</p> <p>roads (4) 50:12;57:21,24; 58:3</p> <p>rock (1) 25:19</p> <p>rodents (1) 42:19</p> <p>Roger (1) 49:13</p> <p>role (1) 64:20</p> <p>Ron (3) 59:13,15,19</p> <p>roof (1) 22:7</p> <p>room (3) 52:13;55:24;72:9</p> <p>root (2) 30:22;31:7</p> <p>Rosario (2) 3:11;4:12</p> <p>rotation (1) 32:17</p> <p>roughly (1) 27:5</p> <p>Route (7) 35:21;49:16,18,20; 50:7,8,11</p> <p>routine (2) 30:14;33:14</p> <p>rules (1) 65:13</p> <p>run (1)</p>	<p style="text-align: center;">S</p> <p>safe (1) 65:7</p> <p>safety (2) 25:6;32:1</p> <p>salvage (1) 48:2</p> <p>same (4) 22:1;36:18;48:13; 72:1</p> <p>sample (2) 20:12;32:22</p> <p>samples (1) 31:2</p> <p>sand (2) 26:11,11</p> <p>sandstone (1) 26:9</p> <p>sanitized (1) 33:20</p> <p>satisfy (1) 43:23</p> <p>scary (2) 62:1;63:19</p> <p>scenario (1) 41:15</p> <p>schedule (1) 73:4</p> <p>scheduled (2) 11:15,17</p> <p>scientific (1) 65:13</p> <p>search (1) 39:11</p> <p>season (2) 28:2;31:16</p> <p>seasonal (1) 36:18</p> <p>second (3) 6:10;29:24;48:10</p> <p>section (8) 3:13,15;12:12;22:9; 26:13;36:3,6;62:11</p> <p>seems (2) 63:19;69:10</p> <p>segment (1) 51:13</p> <p>sell (1) 55:11</p> <p>send (1) 20:12</p> <p>sensitive (2)</p>

<p>12:21;25:1 sent (1) 4:4 September (1) 13:16 seriously (1) 68:10 serve (1) 8:15 Service (6) 21:11,13;47:21; 48:1,12;72:3 services (1) 3:12 serving (1) 3:8 session (4) 5:11;38:7,7,10 set (6) 25:4;30:6;48:23; 49:8;65:20;66:2 setback (16) 9:13;11:9,11;20:21; 22:15,16,18;24:3; 34:21,23,24;37:5,10; 44:9;47:14;67:23 setbacks (4) 22:21;24:12,17; 34:22 seven (3) 9:6;35:15;71:13 several (2) 56:21;69:14 shall (1) 18:17 shallow (2) 39:14,15 share (1) 7:20 sheet (6) 6:9,10,13,22;73:21, 24 sheets (3) 6:8;13:3;52:12 short (2) 6:6;52:9 show (5) 16:23;17:1;25:9; 70:1,18 showing (3) 17:4;35:19;60:24 shut (2) 41:10,16 shutoffs (1) 32:2 shuts (1) 40:22 shutting (1) 41:7 side (1) 50:19 Sign (7) 6:8,12,21;13:3;</p>	<p>52:12;73:21,24 significant (2) 48:6,7 significantly (1) 32:18 similar (2) 21:23;67:14 simple (1) 37:6 sinkholes (1) 25:17 sit (1) 43:15 site (9) 9:19;19:5;31:1; 32:19;47:6,6;56:5; 57:7;66:1 sited (3) 46:24;47:22;65:12 siting (21) 5:4;12:12;13:13; 14:4;16:13,22;17:12; 20:24;21:1;22:14; 23:23;24:22;27:7; 30:7;35:15;36:20; 37:14;56:8;60:16,21; 65:10 sits (1) 41:20 situations (1) 9:22 six (2) 30:7;71:9 size (3) 9:16;21:23;65:5 sizing (1) 27:14 skip (1) 28:2 slats (2) 10:10;42:15 small (1) 71:10 smell (6) 57:14;58:18;63:5,7, 10,13 SMITH (11) 43:1,1,8;44:21; 45:1,4;54:16,17,17, 21;56:11 S-M-I-T-H (2) 43:1;54:17 soil (6) 26:14,21,24;30:23; 31:12;32:15 solar (1) 49:6 sole (1) 26:18 solid (1) 29:14 solution (1) 73:13</p>	<p>somebody (3) 48:11;54:6;72:21 someone (8) 6:24;23:2;31:21,21; 46:18;48:8,17;58:22 sometimes (2) 28:21;66:9 somewhere (3) 40:11;64:4;72:13 soon (1) 57:11 sorry (4) 18:9;21:1;30:19; 38:24 sort (1) 68:11 sound (2) 19:7,21 sounds (1) 62:17 south (2) 50:6;59:4 southeastern (1) 10:15 Southern (2) 26:1;44:3 southwest (1) 49:17 sows (1) 61:18 speak (4) 6:22;7:10;52:20; 66:13 speakers (1) 6:21 speaking (5) 6:16,20;15:22; 16:19;28:9 specific (6) 9:21;13:2;19:5; 23:16;32:20;36:24 specifically (3) 4:22;66:6;67:6 specifications (2) 12:1;21:18 spell (10) 5:12;7:8;15:10,17; 38:3;42:7;52:3,18; 56:13;61:8 spelled (1) 40:7 spills (2) 27:10,13 spring (3) 27:21;28:5,6 Springfield (1) 16:17 springs (1) 25:17 square (1) 62:12 stand (1) 69:16</p>	<p>standard (1) 48:13 standards (8) 9:10;17:15;20:21; 21:10;25:4;30:6; 60:16;66:2 starting (1) 17:21 state (26) 5:12;6:19;7:8;10:2; 15:9;25:24;26:1,5; 30:11;36:14;38:2; 39:13;43:7;44:11; 46:2;47:12;52:17; 56:2;60:18;63:1; 65:11,14;67:2,9; 69:19;72:15 stated (1) 8:14 statement (1) 43:9 statewide (1) 60:16 status (3) 4:23;9:2;10:3 statute (1) 46:23 statutory (2) 12:8;64:24 stay (1) 55:16 staying (1) 64:1 steel (1) 29:16 step (1) 52:16 STICHNOTH (3) 50:18,18;51:8 S-T-I-C-H-N-O-T-H (1) 50:19 still (6) 28:3;47:2;48:7; 50:6,7;63:15 stinks (1) 54:8 stipulations (1) 41:13 Stockland (5) 10:15;16:10;17:2; 55:22;57:4 stop (2) 21:19;29:20 stoppage (1) 29:17 Storage (4) 21:12;27:17,23; 28:1 stored (3) 22:10,11,12 storing (1) 27:15 story (1)</p>	<p>44:8 strategic (1) 35:11 strategy (1) 35:7 stringent (1) 41:13 strong (1) 65:6 structure (2) 10:12;21:6 structures (1) 48:5 subdivision (1) 67:15 subject (1) 8:4 submit (3) 13:11;14:10;19:8 submittal (1) 11:24 submitted (4) 10:17;13:20;14:1; 27:8 substandard (1) 57:21 substantive (1) 9:7 suffer (1) 57:17 Sugar (1) 59:3 Sullivan (1) 3:2 summarize (1) 7:4 supplies (1) 60:3 supply (2) 71:17,19 supporting (1) 61:4 supports (3) 59:24;60:14;64:17 suppose (1) 49:3 sure (3) 13:7;70:5,8 surface (2) 25:16,22 surfaces (1) 30:4 surplus (1) 64:2 surrounding (7) 12:18;24:1,7;27:10; 35:14;57:15,16 Survey (4) 26:5;39:13;71:23; 72:4 swear (4) 15:11,15;16:1; 52:19</p>
---	--	--	---	---

<p>swine (5) 3:21;8:3;10:6,9,20 sworn (11) 6:14;7:11;16:2; 53:6;54:18;56:17; 59:16;61:10;64:8; 66:18;69:1 system (5) 28:10;32:4,7,9; 71:15 systems (4) 23:7;25:18;32:10; 72:2</p>	<p>13,22;7:9,9;12:10; 16:4;38:8;51:16,16, 17,19,20,21,22;52:14, 24;54:20;56:19; 59:18;60:23;61:12; 64:10;65:18,23; 66:20;69:3;73:17,21, 22 testing (3) 9:12;39:21,22 Thanks (1) 73:14 thickness (2) 26:10,11 though (1) 46:21 thousand (2) 53:20;67:16 three (10) 6:15;9:6;23:23; 36:7,10;52:19;56:20, 23;59:2,6 three-quarters (1) 57:5 threshold (1) 24:15 throughout (5) 18:13;32:4;36:10; 44:2;65:14 Thus (1) 13:14 tile (4) 50:20,22;51:3,5 times (2) 9:6;45:11 Tirey (6) 66:16,17,17,21,22; 68:21 T-I-R-E-Y (1) 66:17 today's (2) 13:11;65:2 together (2) 15:11;73:13 tonight (16) 7:4,15;8:1;17:11; 51:14;52:21;53:1; 60:22,23;65:14,23; 66:13;70:11,17;73:5; 74:8 tonight's (3) 3:8;4:3;52:24 took (1) 54:5 top (2) 25:8;30:22 topic (1) 28:22 total (4) 6:17;19:24;72:19, 24 totally (1) 44:23</p>	<p>tour (1) 67:18 tourism (3) 12:24;36:23;37:1 toward (1) 29:4 towards (1) 58:24 town (1) 45:19 traffic (11) 12:23;17:18;35:15, 16,17,20;36:3,13,17, 19;49:15 trained (1) 60:4 training (2) 9:11;23:10 transcribed (1) 4:3 transcript (2) 74:4,6 transcription (1) 4:4 transcripts (1) 13:22 transparent (1) 68:12 Transportation (6) 36:2,5,8,9,16;60:3 travel (1) 35:23 trouble (1) 43:10 trucks (5) 36:4,7,9,10;40:16 try (4) 43:24;55:11;57:1; 61:23 trying (1) 39:1 T's (1) 55:3 turn (3) 8:9;14:19;16:11 TWEEDY (11) 51:24;52:4,4,7; 56:12,12,15,20;58:19, 21;59:12 T-W-E-E-D-Y (2) 52:4;56:15 twice (1) 28:3 Two (16) 17:14;21:1,1;22:14; 24:17;26:12;29:21; 34:22;49:11,14; 53:24;55:5;56:5;57:7, 8,10 type (1) 62:3 types (5) 9:15;26:21;32:10,</p>	<p>15;45:9 Typical (2) 22:3;39:22 typically (1) 34:3</p> <p style="text-align: center;">U</p> <p>unable (1) 12:7 uncommon (1) 55:20 uncontrolled (2) 28:12,15 under (3) 22:13;53:20;60:18 underbuilding (2) 10:11;12:2 underground (1) 25:18 understands (1) 70:4 unfortunately (1) 43:20 unhappy (1) 53:12 uniformly (1) 65:14 unit (2) 3:21;24:14 units (6) 9:16;10:19;18:16, 17;23:8;24:13 University-based (1) 21:13 unless (1) 41:19 unlike (1) 49:5 up (33) 7:10;13:6,10;25:24; 32:23;33:1,6;38:13; 39:12;40:16,23; 42:14;44:3,3,5;49:17, 19,20;50:13;52:12, 16;56:3;59:5;61:16; 63:4,16,23;67:7;68:2; 70:15;71:23;72:7; 73:24 upgrading (1) 57:21 upon (4) 9:16;19:15;38:2; 52:16 use (11) 28:20;29:14;31:7; 33:1;45:24;46:6,8; 48:7;62:9,19;72:16 used (4) 4:5;33:9;57:22; 63:9 uses (1) 62:19</p>	<p>using (2) 6:1;50:11 usually (3) 16:18;42:13,17 utilization (1) 34:9 utilize (4) 19:18;31:10;32:11, 16 utilized (2) 20:19;34:16 Utilizing (1) 32:14</p>
T				V
<p>table (3) 13:3;38:17;39:4 talk (5) 16:13;24:14;67:6; 68:1;69:23 talked (5) 55:13,15;62:8;68:4; 71:18 talking (8) 21:17;22:5,18; 25:21;27:13;30:17; 44:8,22 tanker (1) 32:8 task (1) 3:23 tax (1) 60:11 taxes (1) 54:11 technical (1) 3:12 techniques (3) 33:3,4;35:8 technologies (5) 30:10,11;35:8,10, 12 technology (1) 31:17 ten (5) 26:10;44:7;47:8; 52:9;63:7 tenants (1) 54:23 term (1) 29:19 terminate (1) 47:24 tested (2) 23:18;44:10 testified (1) 67:3 testify (2) 5:15;52:16 testimony (41) 3:20;4:1;5:16,20, 21,22;6:1,3,7,7,10,12,</p>				<p>valid (1) 69:23 valuable (1) 72:20 value (11) 20:13;33:1;47:19; 48:3,5,7,8;55:13,14; 67:8;72:21 valued (1) 67:16 values (3) 32:21;33:2;65:5 various (2) 8:18;9:14 vehicle (1) 36:13 vehicles (1) 36:6 ventilation (1) 33:23 verified (1) 72:5 verify (4) 70:9,15,21;72:1 Vermilion (1) 72:18 vet (1) 70:6 viability (2) 46:15;47:3 viable (1) 47:6 Vick (1) 38:18 view (3) 21:24;30:2;35:19 viewing (1) 67:19 village (1) 64:16 visual (2) 32:2;33:14 vital (1) 64:20 VOICE (3) 37:21;39:19;43:7 volume (1)</p>

20:1	westerly (1) 58:17	world (1) 43:6		
W	western (1) 26:1	worse (2) 41:15,20	1	2
wait (2) 28:7;70:3	wet (3) 27:21,22;28:5	worth (1) 28:1	1 (1) 14:22	2 (1) 15:5
walk (1) 48:17	whatnot (1) 46:16	wrap (1) 72:7	1,000 (3) 18:16;23:8;24:14	2,000 (1) 67:1
walk-throughs (1) 33:14	what's (3) 19:2;43:14,17	write (1) 33:6	1,080 (1) 32:12	2,150 (1) 58:15
walkways (1) 33:16	whatsoever (3) 40:1;44:14;45:15	writing (1) 18:23	1,200 (1) 61:18	2,640 (2) 11:11;24:20
wall (1) 29:19	whole (5) 25:12;26:6,7;55:24; 63:24	written (10) 3:20;5:20,21,24; 6:6;7:8;51:15,16,19, 22	1,225 (1) 36:5	20 (2) 46:8;47:22
Warren (4) 4:16,19;8:10,14	whose (1) 6:19	wrote (1) 62:22	1,320 (2) 11:10;24:19	200 (1) 67:16
washed (1) 33:20	wide (2) 17:7;54:4		1,800 (3) 3:21;10:19;24:13	2019 (2) 10:7;13:16
waste (7) 9:10;10:11;11:23; 12:3;18:4;23:11;25:3	widely (1) 31:16	Y	1,810 (1) 34:23	21 (1) 45:10
water (26) 21:19;29:1,2,3,5,7, 10,10;38:16;39:4; 41:18,19;44:4;46:5; 54:2,3;59:3,8;61:18; 71:1,3,5,7,17,19,23	width (2) 22:5;27:3	yard (2) 44:15;63:15	1.5 (1) 71:10	21st (1) 9:4
watered (1) 53:18	willing (2) 48:8;63:22	yards (1) 39:23	10 (1) 71:4	225 (1) 60:9
Waterstop (1) 29:16	windows (1) 67:19	year (16) 18:8,11;20:3;22:22; 24:24;25:11,15; 27:20;28:4;36:10; 37:4;59:8;60:8;62:15; 63:13;72:10	100 (8) 24:23;25:11;39:23; 44:15;50:21;51:9; 61:20;71:20	24th (2) 11:2;18:11
watertight (1) 30:3	winds (1) 58:17	year's (1) 28:1	101 (2) 10:9;17:6	25 (1) 36:12
way (6) 31:7;41:5;42:15,15; 43:22;47:18	wish (4) 5:15;6:11;52:14,15	years (12) 43:5;45:8,10;47:8, 22;53:24;54:11;55:8; 63:5,7,9;65:4	105 (1) 46:9	280 (1) 71:6
ways (1) 9:15	wishing (1) 5:7	yellow (1) 17:3	108 (1) 10:8	3
wedding (1) 68:2	within (30) 12:20;18:18;21:7, 11,17;22:11,12,17; 24:23;25:2,4,11,15; 26:6,13,18,21,24; 30:6;31:6;37:4,11; 41:12;44:11;50:23, 23;51:3,6;65:24; 68:13	yesterday (1) 53:10	10th (6) 10:7,23;18:8,9,10, 10	3 (2) 37:18;53:9
week (1) 36:11	without (1) 28:8	yield (1) 20:15	11 (1) 27:4	3,960 (1) 35:1
weekly (3) 36:5,7,12	Witness (8) 53:6;54:18;56:17; 59:16;61:10;64:8; 66:18;69:1	yields (6) 20:4,7,9,15;23:20; 32:14	11 (1) 27:4	30 (5) 13:10,17;43:5;55:8; 63:16
weight (1) 36:18	Witnesses (1) 16:2		12 (2) 3:15;12:12	300 (1) 67:16
welcome (3) 8:21;54:14;68:11	wondering (1) 40:9	Z	120 (1) 63:16	341 (2) 10:9;17:7
wells (16) 39:4,10,10,12,13, 14,15,15;43:10; 44:11;45:12;57:3,4; 58:9;59:9;71:24	word (2) 72:1,10	zone (5) 30:22;31:7;39:22; 44:13;71:21	15 (7) 6:17;13:19;59:7; 62:7,17;63:7;71:4	365 (2) 27:17;71:11
WEST (28) 15:15,20,20;16:11, 14,15,16;37:17,20; 38:23,24;39:5,9,20; 40:3;41:4;43:19; 44:22;45:2,5,10,14, 17;46:15;50:22; 51:10;55:18;69:5	words (1) 8:24	zoned (4) 24:1,3,5,9	150 (3) 27:16,23,23	3rd (1) 13:19
W-E-S-T (1) 15:20	work (6) 15:13;16:5;60:4; 68:16;69:17,18	zones (1) 44:23	15th (1) 58:1	4
	worked (1) 44:2	zoning (4) 24:2,10;37:5,10	16th (1) 11:12	4 (1) 52:6
	working (3) 18:18;41:14;45:9	ZUMWALD (2) 40:6,7	18,000 (1) 67:12	4,500 (2) 10:19;24:12
		Z-U-M-W-A-L-D (1) 40:8	1800s (1) 53:15	40 (1) 63:9
			18th (1) 13:16	41 (6) 35:21;49:16,20; 50:7,8,11
			19 (2) 62:13,16	4th (1) 18:9
			1996 (1) 9:5	
			1st (1) 57:24	

5				
5 (1) 73:20 5,000 (1) 18:16 50 (5) 50:23;51:3,6,10; 61:19 500 (1) 63:8 55 (2) 10:20;24:13				
6				
6 (2) 64:12;73:23 6,500 (1) 59:5 60 (3) 18:18;29:15;61:15 640 (1) 62:11				
7				
7:40 pm (1) 74:10 70 (2) 46:10;71:17 73.8 (1) 60:7				
8				
8 (3) 10:9,10;17:6 80 (1) 44:21 800 (2) 49:15,21 880 (1) 36:13				