

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

STATE OF MAINE
LAND USE PLANNING COMMISSION HEARING

In the Matter of
Zoning Petition ZP 779A

Wolfden Mt. Chase, LLC
Application for Zone Change, Pickett Mountain Mine

October 18, 2023

Day 3 of 3 of Testimony and Evidence

BEFORE: Angella D. Clukey, Notary Public, at
Stearns Jr. Sr. High School, 199 State Street,
Millinocket, Maine.

DON THOMPSON & ASSOCIATES, INC.
PO Box 2236, Bangor, Maine
(Phone) 207-394-3900 (E-mail) dtreport@myottmail.com
www.dtmainereporter.com

1 APPEARANCES:

2 For Land Use Planning Commission:

3 Tim Carr, Esq.
4 Land Use Planning Commission
5 22 State House Station
6 18 Elkins Lane
7 Augusta, Maine 04333-0022
8 Tim.Carr@maine.gov

9 For Office of the Maine Attorney General:

10 Caleb E. Elwell, AAG
11 Office of the Maine Attorney General
12 Natural Resource Division
13 6 State House Station
14 Augusta, Maine 04433
15 caleb.elwell@maine.gov

16 For Wolfden, Mt. Chase, LLC:

17 Juliet T. Browne, Esq.
18 Maye Emlein, Esq.
19 Verrill Dana, LLP
20 One Portland Square
21 Portland, Maine 04101-4054
22 jbbrowne@verrill-law.com

23 For H.C. Haynes:

24 Dean A. Beaupain, Esq.
25 Bloomer Russell Beaupain
96 Central Street
PO Box 480
Millinocket, Maine 04462-0480
dean@bloomerrussell.com

26 For Tribal Nations and Nonprofits:

27 Aaron Bloom, Esq.
28 Earthjustice Biodiversity Defense Program
29 48 Wall Street
30 New York, NY 10005
31 abloom@earthjustice.org

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
25

PAGE

Intervenor 2's Testimony and Evidence:	510
LUPC Staff and Commission Questions:	530
Intervenor 1's Testimony and Evidence:	536
LUPC Staff and Commission Questions:	540
Redirect-Examination of Jim Finley:	543, 558, 593
Redirect-Examination of Jeremy Ouellette:	551
Redirect-Examination of Doug Stewart:	556
Redirect-Examination of Ron Little:	561, 596
LUPC Staff and Commission Questions:	564

1 (This hearing was taken before Angella D. Clukey,
2 Notary Public, at the Stearns Jr. Sr. High School,
3 199 State Street, Millinocket, Maine, on Wednesday,
4 October 18, 2023, beginning at 8:30 a.m.)

5 MR. WORCESTER: Good morning. I now call to
6 order this session of the public hearing of the Land
7 Use Planning Commission on zoning petition ZP 779A,
8 Wolfden Mt. Chase, LLC's proposal rezoning to allow
9 for the development of Pickett Mountain Mine.

10 Consecutive

11 My name is Everett Worcester, I'm the current
12 chair of the Land Use Planning Commission. I
13 represent Piscataquis County. And I'm the hearing
14 officer for today's session.

15 Leo, would you like to introduce yourself?

16 MR. TRUDEL: Good morning. My name is Leo
17 Trudel, Aroostook County.

18 MR. PRAY: Peter Pray, Penobscot County.

19 MS. HILTON: Gwen Hilton, Somerset County.

20 MS. BEYER: Stacy Beyer, executive director the
21 Land Use Planning Commission.

22 MR. ELWELL: Caleb Elwell, assistant attorney
23 general and counsel for the Commission.

24 MS. FITZGERALD: Betsy Fitzgerald, Washington
25 County.

1 MR. WORCESTER: Just as a reminder, we have a
2 court reporter. Please speak distinctly and
3 hopefully in a moderate level. At one time last
4 evening I saw her just throw her hands up like this.
5 And it's, like, I give up.

6 At this time I ask all persons planing to testify
7 today to please stand and raise your right hand.

8 Do you affirm that the testimony you're about to
9 give is the whole truth and nothing but the truth?

10 AUDIENCE MEMBERS: I do.

11 MR. WORCESTER: Thank you. You may be seated.
12 And we're going on with the third morning.
13 Intervenor 2's testimony and evidence.

14 MR. KUSNIERZ: Good morning, Chairman Worcester
15 and fellow Commission members. I'm Dan Kusnierz and
16 I'm the water resources program manager for the
17 Penobscot Indian Nation.

18 MS. FITZGERALD: Sorry. I thought I heard you.

19 MR. KUSNIERZ: I thought I could hear myself.

20 I've served in this position for the last 30
21 years overseeing water quality for the Penobscot
22 Nation. Some of the -- my duties involve the water
23 quality laboratory on Indian Island; we do water
24 quality sampling throughout the whole Penobscot
25 watershed, on the tribe's trust lands, lakes and

1 ponds and streams; do a lot of studies, both
2 ourselves and also with other agencies looking at
3 contaminant levels found in fish and other wild foods
4 that are consumed by the tribe.

5 We also do a lot of work using aquatic insects as
6 indicators of water quality; anything to do with FERC
7 relicensing, spills, discharge permits, water quality
8 regulations. Basically, anything that has the
9 potential of affecting, you know, water resources
10 concerns of the tribe. We -- you know, we have a
11 program to oversee that and try to address those
12 issues. And we try to do so based on the data that
13 we collect.

14 The Penobscot, or the Panawahpskewi are the
15 people of the place of the white rocks. The
16 Penobscots are a member of the -- the Wabanaki
17 Confederacy. The Wabanaki are the Dawnland people,
18 which refers to the people who live where the sunrise
19 first touches each day. The Confederacy consists of
20 the Penobscot, Passamaquoddy, Maliseet and Mi'kmaq
21 tribes.

22 The Wabanaki have lived in this area since time
23 and memorial and have a close relationship with the
24 natural world. And, I'm sorry, I've been forgetting
25 to advance my slides. They are not advancing.

1 MR. WORCESTER: Do we have a tech --

2 MR. KUSNIETZ: There we go. All right.

3 The Penobscot Nation has more than 4,900 acres of
4 reservation land, which includes over 200 islands in
5 the Penobscot River. In addition to the reservation,
6 the tribe protects and manages over 90,000 acres of
7 trust land that are shown here on this map in red,
8 which are scattered around the state.

9 You'll be seeing a lot of maps today, so...

10 This map shows the location of Wolfden's proposed
11 mine. It also shows Penobscot and Maliseet lands
12 shown here in -- in tan. Also, the location of
13 Baxter State Park, Katahdin Woods and Water National
14 Monument and the lakes and ponds that we've been
15 talking about over the last couple of days, and the
16 West Branch Mattawamkeag River, which goes into the
17 Mattawamkeag and then into the Penobscot.

18 Mt. Chase is located here. This map shows the
19 town of Mt. Chase, but the mountain -- or the
20 mountain peak that we heard about yesterday is
21 located a little further up here right around where
22 the C on Pickett Mountain is. All these hashmarks,
23 these white hashmarks that go across the map, those
24 are areas that are designated by NOAA National Marine
25 Fishery Service as critical Atlantic salmon habitat.

1 The West Branch Mattawamkeag, the east branch of
2 the Penobscot, the mainstem of the Penobscot and
3 Matagamon law all under Maine state law has special
4 designated use of sustenance fishing, which means
5 that when calculating human health criteria in order
6 to protect people from -- from harmful chemicals, you
7 know, from toxins, including metals and other
8 contaminants, they use a fire fish consumption rate.
9 So typically 32 grams per day is used. In this case
10 for those waters that are designated for sustenance
11 fishing, they have a 200 gram per day consumption
12 rate.

13 Additionally, portions of the west branch of the
14 Mattawamkeag, Mattawamkeag, Penobscot and east branch
15 of the Penobscot have been designated as outstanding
16 river segments and are afforded special protection
17 under Maine's Natural Resource Protection Act.

18 The Panawahpskewi watershed, the Penobscot
19 watershed, is the largest watershed in Maine. The
20 watershed has five major subwatersheds, one of which
21 is the Mattawamkeag River, which is named for the
22 gravel bar that is located or marks the confluence
23 with the Penobscot River. The Penobscot watershed
24 and -- has and continues to sustain the Penobscot
25 people for thousands of years.

1 The tribe is a riverine tribe and their culture
2 is deeply routed in their relationship with the
3 river. The Penobscot River considers the river --
4 the Penobscot Nation considers the river to be a
5 living relative. They look at the river differently
6 than a lot of people do, it's a living relative. In
7 fact, in 2019 tribe enacted a resolution to make the
8 river a tribal citizen.

9 It's also important to note that the tribe looks
10 at the river, I think, a lot differently than -- than
11 society does. They don't divide it into things like
12 the mainstem of the Penobscot, the -- you know, the
13 west branch, the east branch, all those things. You
14 know, historically the tribe thought of the whole
15 watershed as the river.

16 And there are places along -- along it that have
17 names and those names are associated with either some
18 sort of navigation, some significant thing that would
19 help people understand where they are, or activities
20 that occurred there, things such as Mattamiscontis,
21 meaning place of many alewives. So a lot of places
22 have names that are associated with activities that
23 take place there.

24 The river is a source of life that provides
25 tribal citizens with wild foods including fish,

1 wildlife, plants, medicines and traditional cultural
2 life ways. The Penobscot have treaty reserve
3 sustenance fishing rights within reservation waters.

4 Just a couple of slides showing some of these
5 cultural practices.

6 The Penobscot's traditional culture life ways did
7 not fade away with the intrusion of industry and
8 development, but are still practiced today.

9 Unfortunately, the tribe is unable to fully carry out
10 sustenance fishing because of health advisories due
11 to dioxins, PCBs, mercury and other contaminants that
12 are present in fish.

13 Historically fish and seafood comprised about
14 45 percent of Wabanaki people's diets. Even as
15 Penobscot River was subjected contamination from
16 industrial pollution, local fish is important for the
17 diet -- for diet and nutrition. But Atlantic salmon
18 and brook trout as well as many other species are
19 more than just food, they are embedded in the culture
20 and traditional beliefs of the Penobscot. The
21 Penobscot are connected with salmon and all creatures
22 for survival.

23 Water quality in the Penobscot watershed has seen
24 tremendous improvements over the past 30 years as --
25 you know, as I have observed. Historic problems such

1 as large sheets of foam covering the river,
2 unpleasant odors, low dissolved oxygen, high bacteria
3 levels, algal blooms where the whole river turns
4 green. Now those things are -- those are things of
5 the past.

6 We've had -- made remarkable improvements. And
7 this is partially demonstrated by the upgrades of
8 water quality classes for hundreds of miles of stream
9 segments. And much of this is based on water quality
10 data that the Penobscot Nation has collected, which
11 has shown that higher classes are being met and -- as
12 part of a -- kind of anti-backsliding; we've made
13 recommendations for those water classifications to be
14 upgraded to protect that higher level.

15 So I should explain a little bit about Maine's
16 water classification system. There are -- there are
17 four classes of streams; there's AA, which is the
18 highest classification, A, B and C. And this map
19 here, it looks kind of like a spiderweb. There's a
20 lot -- a lot to look at here. But if you -- whoops.

21 This area down here in green, that's roughly
22 where the mainstem of the Penobscot River comes up
23 and goes into the east and west branches. That is
24 now Class B, but historically that was Class C, the
25 lowest class. So we've seen a lot of the -- the

1 whole mainstem of the Penobscot went from being
2 Class C to everything is now Class B. And then many
3 sections of the west branch have also been upgraded
4 to the higher classification.

5 Most of the streams in the watershed that are
6 tributaries that come into the Penobscot historically
7 were either Class C or Class B. Many of those are
8 now -- most of those are now Class A. So the green
9 is -- is Class B. Blue is Class A. And AA are kind
10 of these purple colors. So, again, many of the
11 streams have been upgraded from Class C or B to
12 Class A and even AA.

13 Class AA waters are the highest classification
14 and they are considered to be outstanding natural
15 resources. No discharges or dams are allowed in
16 those waters. Class A waters, which, again, are the
17 ones in blue, are the second highest class. And
18 they're also very high quality and they require that
19 discharges to them must be as clean as natural
20 background levels. So any discharge that goes into
21 that -- into a Class A water has to be as good as
22 that receiving water is.

23 So as you can see, nearly all of the streams in
24 vicinity of the proposed mine are Class A with some
25 AA streams in the east branch watershed and the lower

1 Mattawamkeag watershed.

2 So as we zoom in closer to Wolfden's proposed
3 mine site, you can see from the blue color -- so
4 here's the mine. You can see all of these streams
5 that are in the vicinity are all Class A waters. The
6 dissolved oxygen criteria for Class A waters is
7 intended to be protective of all stages of salmonid
8 species such as salmon and brook trout, including
9 spawning and incubation.

10 Young salmonids require high dissolved oxygen,
11 cool temperature and are very sensitive to acidity
12 and metals. Acid mine drainage can easily upset this
13 fragile environment during the spawning season, which
14 could lead to the demise of these fisheries.

15 Again, Maine's laws require discharges to Class A
16 must be equal to or better than the existing water
17 quality of the receiving waters.

18 MR. WORCESTER: Can I ask a question?

19 MR. KUSNIERZ: Yes.

20 MR. WORCESTER: Go back to that slide a minute.
21 What are the -- what do the triangles represent?

22 MR. KUSNIETZ: I don't know.

23 MR. WORCESTER: Okay. That's --

24 MR. KUSNIERZ: I wish I did.

25 MR. WORCESTER: -- that's two of us.

1 MR. KUSNIERZ: This is from Maine DEP's data
2 layer for classification of waters. And I'm just not
3 sure what they are. Yeah, I'm not sure. Very
4 observant.

5 So while Wolfden has not included specifics about
6 the ore concentrator, ore tailings facilities, they
7 have proposed that there will be in either
8 Stacyville, Hersey or Patten. So this map shows that
9 all of the streams in the Stacyville area are Class A
10 except a few very small streams that are shown here
11 in green that are Class B. So there's streams there
12 and here. And this is the Stacyville border.

13 Maine law prohibits the direct discharge of
14 pollutants into waters with a drainage area of less
15 than 10 square miles because of the lack of adequate
16 delusion.

17 In the following maps I've used USGS stream stats
18 to measure the drainage area of the Class B streams
19 in Stacyville. And you can see here -- so this area
20 that's in yellow, that is the whole drainage area of
21 each of these Class B segments. And it doesn't show
22 up too well, but on the bottom the mileage -- or
23 the -- the drainage area is .95 which is less -- is,
24 you know, less -- less than 1 square mile. Well,
25 below the required 10 square miles for discharge.

1 And then this Class B stream has a drainage area
2 of 1.42 square miles. And this stream -- Class B
3 stream has a drainage area of .4 square miles. So
4 all of the Class B segments -- or Class B streams
5 that are located in Stacyville have a drainage area
6 well below 10 square miles and, therefore,
7 prohibit -- are prohibited from receiving direct
8 discharge.

9 When you look at Hersey, you can see that all the
10 Walters in Hersey are blue, which means they're all
11 Class A waters. So any discharges to these streams
12 need to meet background levels or be equal to or
13 better than the receiving stream. And, likewise, all
14 streams in Patten, as you can see from the blue, are
15 Class A streams.

16 So the take-home message of these maps is that
17 Wolfden cannot discharge to most waters around the
18 mine site or the town's proposed for the ore
19 concentrator or tailings management facility. And
20 for those that it could discharge to, it would have
21 to treat to levels that are equal to or better than
22 the receiving water. And groundwater discharge also
23 must meet these same background levels, which we
24 think is a very high burden.

25 It's not moving. There we go. Here are just

1 some photos of Pleasant Lake and Grass Pond, both
2 beautiful places.

3 In 2000, the year 2000, the Gulf of Maine
4 distinct population segment of Atlantic salmon were
5 listed as endangered under the Endangered Species
6 Act. With that listing areas of critical habitat
7 were designated by NOAA National Marine Fishery
8 Service. These waters which I showed on that earlier
9 map which had the cross-sections -- kind of white
10 cross-sections going through them. Those include the
11 Penobscot River watershed including the West Branch
12 Mattawamkeag River and it's tributary waters.

13 These waters are deemed to contain the physical
14 and/or biological features that are essential to the
15 conservation and restoration of endangered Atlantic
16 salmon. Significant efforts have been made to help
17 restore Atlantic salmon and other sea run diadromous
18 fish to the Penobscot watershed.

19 One of these is the Penobscot River Restoration
20 Project of which Penobscot Nation was a partner.
21 This project involved the removal -- the purchase and
22 removal of two mainstem dams located in Great Works
23 in Veazie and a bypass -- a river-like bypass channel
24 built around the third in Howland with the ultimate
25 loss -- no loss of power generation, but much

1 improved fish access.

2 This -- these photos here or these images show
3 that the re -- on the left-hand side you can see what
4 the -- before the dam removals what they -- access
5 for sea-run fish was like into the Penobscot
6 watershed. And you can see from kind of that pink
7 area down on the bottom that really -- the fish
8 really couldn't get above those dams. Once those
9 dams came out, it improved -- vastly improved access
10 to over 2,000 miles of historic river and stream
11 habitat for Atlantic salmon and other sea-run
12 species.

13 And excuse the typo on this because it says
14 1,000, but it's actually, you know, more like 2,000
15 miles.

16 For almost four decades the Penobscot Nation has
17 worked with federal and state agencies including
18 NOAA, U.S. Fish and Wildlife Service and Maine
19 Department of Marine Resources to comanage and help
20 restore Atlantic salmon, another diadromous fish
21 species. These efforts, including stocking --
22 stocking Atlantic salmon fry in the east branch of
23 the Penobscot and the Mattawamkeag watershed and
24 adult Atlantic Salmon in the east branch of the
25 Penobscot.

1 So historically there were about 75 to 100,000
2 adult Atlantic salmon that would return to the
3 Penobscot watershed every year. That is greatly
4 diminished now. The Penobscot hosts the largest --
5 but the Penobscot still hosts the largest run of
6 Atlantic salmon left in the United States with recent
7 returns ranging from 1,000 to 1500. And this year we
8 have so far 1,600 -- over 1,600 fish that have
9 returned as can be seen in this -- the bottom graph.

10 The success of salmon recovery is likely very
11 dependent upon returns of other sea-run fish species.
12 And the photograph in the upper right-hand corner is
13 at the Milford fish lift. And you can see all the
14 different fish species that are returning.

15 So you have -- the large one being Atlantic
16 salmon, you have sea lamprey, American shad, stripped
17 bass and river herring. And as seen in the graph in
18 the bottom right-hand corner, before the dams were
19 taken out, river herring were largely absent from the
20 Penobscot being able to get up to Milford. And as of
21 this year we had 5.5 million river herring return to
22 the Penobscot.

23 I would like to make a note here that, you know,
24 I reviewed Mr. Stewart's prefiled testimony about
25 aquatic resource -- the summarized aquatic resources.

1 And he made no mention in the prefiled testimony
2 about critical habitat for Atlantic salmon in the
3 west branch Penob -- west branch of the Mattawamkeag
4 and its tributaries.

5 The vast amount of resources to restore Atlantic
6 salmon in the Penobscot watershed reflects that this
7 is -- this habitat represents the best chance for
8 Atlantic salmon recovery in the United States. To
9 allow a metallic mineral mine to be developed so
10 close to the headwaters of the West Branch
11 Mattawamkeag would unnecessarily put these efforts
12 and success at risk.

13 The proposed mine, as we -- as we've heard over
14 the last couple of days, we believe has a high
15 likelihood of creating acid mine drainage. I'm not
16 going to spend time to talk about what acid mine
17 drainage is, I think that's been well covered. But
18 the low -- the low pH water from acid mine
19 drainage -- not only is the pH harmful, but the heavy
20 metals are leached out -- leached out as well.

21 And that can be both as it goes through the --
22 you know, through the ground, but also in the streams
23 themselves. The low pH can cause metals that are
24 bound up in sediment to then become available. They
25 get on the gills of the fish and interfere with their

1 respiration. And as Dr. Maest talked about
2 yesterday, the -- you also can get a red/orange
3 precipitate from acid mine drainage that coats the
4 gravel bottom.

5 And that gravel bottom is really important for
6 the salmonid species that are living in there because
7 when they're eggs or they're fry, they're actually
8 living right in the gravel. So it smothers -- it
9 smothers and destroys these clean gravels that are
10 needed for spawning and incubation.

11 So Atlantic salmon thrive in waters of -- with a
12 pH range of between 6.5 and 8.2. But water --
13 receiving waters from AMD can -- can be, like,
14 down -- between 2.0 to 4.5, which are well below
15 Maine's water quality standards, which are 6.5 to 9.
16 Studies have shown that moderately acidic water can
17 be fatal for young Atlantic salmon and affects the
18 sensitive period of their lives as they transition
19 from par to smolt to head to saltwater.

20 So remember, with something like an Atlantic
21 salmon, they're -- when they're born or, you know,
22 when they hatch out, they're very small, they grow up
23 in that environment in freshwater. Now their body
24 has to adapt to going to live in saltwater. So
25 there's a process that they have to go through called

1 smoltification.

2 And acid mine drainage, low pH water can affect
3 that process. So even short duration moderately --
4 moderate acidic conditions are reduce their tolerance
5 of saltwater, cause aluminum accumulation in their
6 gills. Another study found that mine pollution can
7 actually cause Atlantic salmon to even avoid waters.

8 Moving on to brook trout. Maine is by far the
9 most important state in the eastern United States for
10 brook trout. It's the only state with extensive
11 intact self-reproducing populations in lakes and
12 ponds and is the last stronghold for stream-dwelling
13 populations of wild brook trout.

14 Because of these populations, brook trout are an
15 economically important sport fish in Maine. People
16 come from all over the place to fish for our brook
17 trout here. Lots of people from Maine fish for brook
18 trout. They're wonderful to eat. And they're also
19 very economically important for tribal guides who
20 make their living taking people out to catch them.

21 Brook trout are also an important sustenance
22 species for tribal citizens. And one of the really
23 important parts of this is because they contain lower
24 levels of contaminants than do many other species
25 such as those found in mainstem rivers, that have

1 been contaminated by past industrial users.

2 So in the Penobscot River, as I mentioned, we
3 have advisories in place for things like dioxins and
4 PCBs and mercury. Much of that comes from
5 historical, you know, discharges that have
6 accumulated in the watershed. So tribal members know
7 this and -- and try to go carry out their sustenance
8 practices elsewhere and go to a lot of these, you
9 know, smaller streams and places that don't have
10 discharges to them in order to catch brook trout.

11 In fact, Maine CDC's health advisories are the
12 least restrictive for, like, the sensitive
13 populations of women of childbearing age and young
14 children for -- for brook trout. Like, brook trout
15 are one of the few species that they recommend people
16 can -- can eat.

17 So the cream of the crop of Maine's brook trout
18 ponds are the state heritage fish waters. These
19 ponds, as we heard over the last couple days, are
20 ponds with brook trout or Arctic char that have never
21 been stocked or haven't been stocked in the last 25
22 years.

23 So there are three state heritage fish waters in
24 the vicinity of the proposed Pickett Mine site,
25 Pleasant Lake, Mud Lake and Grass Pond. I've been to

1 all of these and they're -- they're really beautiful
2 gems. They're just gorgeous places.

3 Maine Department of Inland Fisheries and Wildlife
4 states that the lakes, quote, support healthy
5 populations of salmonids and smelts and it's vitally
6 important to protect the tributaries as well as the
7 lakes since they contain an abundance of spawning and
8 rearing habitat.

9 Despite the evidence of the outstanding nature of
10 these coldwater fisheries adjacent to the mine, the
11 Wolfden application falsely states that -- it relies
12 upon outdated surveys from the 1950s and falsely
13 states that Mud and Pleasant Lake are not good
14 coldwater fisheries. And makes -- and the
15 application mischaracterizes more recent -- sorry.
16 And it mischaracterizes more recent data saying it
17 suggests potential rather than existing actual
18 outstanding fisheries.

19 As with Atlantic salmon and other fish, acid mine
20 drainage is a major threat to brook trout, especially
21 in streams with low buffering capacity such as those
22 found in this vicinity around the mine site because
23 they're very clean waters, do not have a lot of the
24 things in them that will help neutralize that acid as
25 it comes into the -- the waters.

1 A Pennsylvania state report states that brook
2 trout can tolerate a pH range of between 5.95, that
3 being adult ones. But at either end of the range
4 fish become stressed. And young fish and eggs are
5 less tolerant -- much less tolerant and they can --
6 as I mentioned before, can get gill damage. An
7 entire age class of fish can die.

8 Metal toxicity from acid mine drainage is another
9 common stream killer. Because metal toxicity can
10 increase with low pH, small amounts of these metals
11 can stress or cause death, especially in young and
12 developing fish. And acid mine drainage from coal
13 and metal mines has contributed to the declines of
14 brook trout in the mid Atlantic and Application
15 historic range and rendered large numbers of streams
16 in those areas unlivable for brook trout.

17 The Eastern Brook Trout Joint Venture estimated
18 that AMD is impacting about 2,500 miles of rivers and
19 streams in Pennsylvania.

20 That is all. Thank you.

21 MR. WORCESTER: The applicant's
22 cross-examination.

23 MS. EMLEIN: Good morning. We appreciate
24 Mr. Kusnierz's testimony. He has testified
25 eloquently about the importance of the Penobscot

1 watershed and we agree. And we agree that
2 Mr. Kusnierz is in the best position to speak about
3 the cultural importance of the watershed to the
4 Penobscot Nation. We appreciate the ongoing efforts
5 of the Penobscot Nation to improve water quality and
6 the surrounding habitats and we look forward to
7 finding opportunities to partner with the tribes on
8 this important work. Thank you.

9 MR. WORCESTER: Intervenor 1's cross-examination.

10 MR. BEAUPAIN: I don't have any questions for
11 this witness and I agree with just about everything
12 he said.

13 MR. WORCESTER: It's now the staff's opportunity
14 to ask questions. Betsy.

15 MS. FITZGERALD: Just -- I'm just curious. You
16 talked a lot about how many fish went up the river
17 and down the river.

18 How do you count fish?

19 MR. KUSNIETZ: Good question. So currently the
20 way -- like those graphs that I showed you with the
21 salmon and river herring and all that, at the Milford
22 dam there's a fish lift, like, an elevator that was
23 put in so the fish can't go by the dam, they have to
24 go into that elevator, they get lifted up, they go
25 through a raceway.

1 And in that facility there are fish counters.
2 So, like, the smaller fish there are tubes that they
3 go through that have like --

4 MS. FITZGERALD: Oh, okay.

5 MR. KUSNIETZ: -- detectors in them that count
6 the fish. Or they also have ways to send the fish
7 into another -- like, with the Atlantic salmon they
8 send them up another shoot and into a holding tank.
9 So that's -- yeah, they have counters that do that.

10 I think when you start getting huge numbers of
11 fish, like, when you have 5.5 million alewives coming
12 through, it gets a little harder because they're all
13 trying to go through small tubes.

14 MS. FITZGERALD: Thank you.

15 MR. WORCESTER: Leo.

16 MR. TRUDEL: You had given a range of pH as it
17 pertained to the -- I'll say the optimum or the --
18 the ability for fish to live within that range. And
19 at both ends the fish would be strained, as you
20 stated.

21 MR. KUSNIETZ: Correct.

22 MR. TRUDEL: My question is, do you know what the
23 pH is currently of the river and the waterways?

24 MR. KUSNIETZ: Which river -- the Penobscot
25 River?

1 MR. TRUDEL: The waterways that would be affected
2 if there were to be some sort of discharge.

3 MR. KUSNIERZ: We have -- we have not tested the
4 water up in that area. So we'd have to look at the
5 data from -- from studies that show, you know, what
6 it is in that area. Most of the waters we find,
7 like, in the Penobscot and surrounding areas are
8 usually, you know, in the high 6s.

9 MR. TRUDEL: And I think I know the answer, but
10 I'm going to ask it anyway -- the question.

11 And that is, do you know how much discharge would
12 greatly affect it or minimally affect it?

13 MR. KUSNIETZ: It -- with acidity it really
14 depends on how acidic it is and the stream's ability
15 to neutralize that, so...

16 I'll give you an example on lakes and -- some
17 lakes and ponds and some tribal trust lands. We have
18 some places -- we have -- you've heard the acid rain
19 before. So in the springtime after you have a lot of
20 snow that's accumulated and it melts, there's a lot
21 of acid that can come into the system.

22 So we have some lakes and ponds that because of
23 their chemistry and geology of, you know, the
24 surrounding area, they're able to absorb
25 essentially -- they're able to absorb that acid

1 without causing a significant change in the pH. But
2 the streams -- as Dr. Maest was talking about
3 yesterday, a lot of the streams in this area are very
4 clean and have very low acid neutralizing capacity.

5 So it doesn't take much acid in order to cause --
6 like, you see that change in the water. So the water
7 can't absorb it and -- and not change.

8 MR. TRUDEL: Very good. Thank you.

9 MR. WORCESTER: I would -- I would like to have
10 seen a pre and post on the watershed. I get the
11 impression that you're suggesting that this whole
12 watershed has been greatly improved over time. But
13 I -- I'd like -- I would have liked to have seen a
14 photograph, let's say, from 1900 and a photograph
15 more recently.

16 MR. KUSNIETZ: I've only been there for 30 years.

17 MR. WORCESTER: Well, I'll take 30 years.

18 MR. KUSNIERZ: Yeah.

19 MR. WORCESTER: How do -- what do you attribute
20 the cleanup of this area? Was it something you did
21 or the tribe did or the State did or --

22 MR. KUSNIETZ: I think it's a combination of lots
23 of things. I mean, one huge part, obviously, from
24 the -- from a long time ago, you know, in the '70s we
25 had the Clean Water Act. So we stopped treating

1 rivers as open sewers and, you know, put water
2 quality standard in place, discharge licenses with
3 permits and limits on them to drive that down. And
4 those -- those continued to get better.

5 So a lot of the big problems that we used to have
6 we're not really seeing now because a lot of the --
7 you know, a better understanding and just a lot of
8 cleanup that's happened.

9 In the Penobscot, I mean, frankly, one of the
10 things that has made a big difference, I hate to say
11 this, but the paper mills have shut down. So -- you
12 know, not that that's a desirable thing, but it's --
13 it's a reality. There's a lot of loading that was
14 going into the rivers that's not happening now.

15 But -- but even prior to that when some of the
16 mills were still operating, their discharges became
17 much more clean than they had been, you know, over
18 previous years.

19 MR. WORCESTER: That was what I had suspected, it
20 was the loss of -- of industry that affected this
21 greatly, probably on the positive side.

22 MR. KUSNIETZ: In part, yeah. I think it
23 improved greatly just because of better permits, you
24 know, putting permit limits in to help drive things
25 down so that the river didn't turn green.

1 MR. WORCESTER: And then I guess stopping the log
2 drives, apparently, was a big positive. I do miss
3 that. I always enjoyed that. Marveled at the
4 people's skill and running around on those logs with
5 picks, but -- and I never quite understood what --
6 what chemicals came out of the wood that caused it to
7 be a negative, but...

8 MR. KUSNIETZ: I think a lot of it had to do with
9 just all that wood being in the river and as it goes
10 to break down, it uses up all the oxygen and that
11 kind of smoothers the bottom and, you know, changes
12 the -- the substrate and the channels, so...

13 But, yeah, I remember -- I remember coming up on
14 the Kennebec with my grandfather and him -- I was
15 just a little kid. He made the -- he said, Remember
16 this because this is the last time you'll see it.
17 Because I had been used to seeing those river drives.

18 MR. WORCESTER: Right.

19 MR. KUSNIERZ: And he pointed that out. He said,
20 This is the last one that's ever going to happen.
21 And it kind of made a mark in my mind.

22 MR. WORCESTER: Thank you. We take a break?

23 MS. BEYER: We can, sure.

24 MR. WORCESTER: It says, Take a break.

25 MS. BEYER: We're significantly ahead of

1 schedule.

2 MR. WORCESTER: We are obviously going to finish
3 up way ahead of schedule this morning if things go
4 like this.

5 (Whereupon a recess was held at 9:14 a.m., and
6 the hearing was resumed at 9:32 a.m. this date.)

7 MR. WORCESTER: Next up is Intervenor 1's
8 testimony and evidence.

9 MR. BEAUPAIN: Thank you, Mr. Chairman. Could
10 you folks come up here? Mr. Turner will start.

11 MR. TURNER: Good morning, commissioners and
12 staff. As you can probably tell, this is the first
13 time I've ever done this before you guys. I usually
14 sit in the back and keep eyes -- my -- my mouth shut
15 and ears open, but today I've got to talk, so...

16 Anyway, I hope you had a chance to just peruse
17 through this thing because I am not going to sit here
18 and read word for word. But the two main things that
19 I want to get across is that this is a multiuse area.
20 I mean, it is -- all aspects of it is -- and there's
21 a lot of other different activities taking place
22 there, the turbines, the other stuff that -- so it is
23 not just a playground for -- for a bunch of other
24 people.

25 So we've been -- like, very similar to, like,

1 Route 11 is, you know, one of the major trucking
2 routes in Maine. And -- and, of course, the other
3 thing about this whole thing is that -- is the
4 economic value it has to this region -- part of the
5 state of Maine. It is just -- can't -- I don't think
6 anybody really can fathom it right today, but if this
7 should happen to come to fruition, I think it would
8 be a wonderful thing.

9 Okay. I'm currently -- I want to say, in the
10 past I've been involved with quite a few conservation
11 sales. We had Township 16, which is now in the
12 nature's conservancy. We've got have the Lakeville
13 parcel, which is now part of the Downeast -- Downeast
14 Lakes Land Trust, and then Township Range -- 1
15 Range 4, Wells, which just currently was conveyed to
16 IF & W.

17 And I'm also currently involved with a number of
18 projects that I cannot mention where, but if they all
19 happen to come to fruition, that would mean tens of
20 thousands of more acres of conserved land. So -- and
21 what I like about -- whether I can believe in this
22 conservation movement or not is irrelevant, but what
23 I like about this is that they pay for the land, they
24 pay for that right to use it the way they want to.

25 And I think that's about all -- I guess what I

1 would like to have -- please give Wolfden the chance
2 to prove they can do a good project before the DEP.
3 I mean, because, you know, this is just a rezoning and
4 they have to go through quite a few more steps
5 after this assuming it's approved.

6 But thank you.

7 MR. FITZPATRICK: Good morning. My name is Joel
8 Fitzpatrick. I was born in Houlton, Maine and have
9 lived in Patten, Maine for 27 years. I've been
10 married for 34 years, have three adult daughters.
11 And for 26 years I owned and operated Patten Truck.
12 I now operate Katahdin Brew Works, which is a local
13 brewery, just a small brewery and work as a
14 pharmacist for the Katahdin Valley Health Center,
15 which is a rural health center in Patten, Maine.

16 Since 1996 when we moved to Patten the two mills
17 in Millinocket have closed, the starch factory in
18 Island Falls has closed, the plywood mill in Patten,
19 Maine has -- has closed. The population in 1996, I
20 was told, was about 1,200 people, maybe a little bit
21 shy of that. And now the population is about 880.
22 So there's really no argument that the population and
23 the employment opportunities in the northern
24 Penobscot area have declined.

25 In the past five years I've experienced more

1 activity in the Patten area. It would be great to
2 see this continue. More infrastructure is needed for
3 the greater Katahdin area to support any expanding or
4 new business. I believe that the Pickett Mountain
5 project could potentially add substantial value to
6 the greater Katahdin area.

7 Wolfden will be required to meet all State of
8 Maine mining laws and DEP regulations. I ask this
9 question: If a person or business can abide and
10 perform within the laws and regulations set forth by
11 the State of Maine or any of its governing bodies,
12 then why shouldn't they be allowed to operate?

13 Wolfden land parcel should be rezoned if it can
14 follow the Maine rules and laws. This does not
15 guarantee that Wolfden will be cleared to mine the
16 land parcel.

17 I think Patten -- the Patten area is the most
18 overlooked area in Maine. It has beautiful views,
19 lakes, rivers, mountains and other natural resources.
20 I think the natural -- the National Monument, Wolfden
21 and other businesses have great potential to
22 rejuvenate the northern Penobscot region. It would
23 be great to be -- it would be great to be able to use
24 all of the area resources responsibly to benefit all.

25 Thank you.

1 MR. WORCESTER: Intervenor 2's cross-examination.

2 MR. BEAUPAIN: No, no, that concludes our
3 presentation.

4 MR. WORCESTER: Okay. Intervenor 2.

5 MR. MAHONEY: Beyond wishing that Mr. Fitzpatrick
6 had brought some samples, we don't have any questions
7 and thank the witnesses for coming today.

8 MR. WORCESTER: LUPC staff?

9 MS. HILTON: And I'm not sure who to ask this of.
10 What do you -- what have you seen -- so your census
11 status shows up to, I think, 2020 that you quote
12 there -- or maybe a better question is, How much --
13 you know, are you seeing an influx of people and
14 businesses since 2020 -- I guess since COVID even?

15 MR. WORCESTER: Oh, you turned it -- there you
16 go, you're on.

17 MR. FITZPATRICK: I'm on? Okay. Great. Thank
18 you.

19 Yeah, it's sad to say COVID did help our area
20 quite a bit. We'll see with a few more violent
21 winters if they -- if they continue to stay. That
22 will be interesting. The people that came in -- I
23 don't -- like I say, I don't know if they're going to
24 stay. I think it was a nice place -- when you're
25 living in New York City or Boston or whatever and you

1 come up and you -- you don't have to see your
2 neighbor, that's kind of a nice thing especially with
3 all the fear that was going on.

4 Businesses, a few, but not -- not many. A few.
5 I don't really think we've seen -- I'd say not many.

6 MS. HILTON: Okay.

7 MR. WORCESTER: How would you characterize the
8 location of Pickett Mountain in terms of the
9 unorganized territory? Any one of you.

10 MR. TURNER: Well, personally, I think, as far
11 as the mine site itself, it's a minor part of the --
12 of the unorganized territory, very minor. I mean --

13 MR. WORCESTER: Would you --

14 MR. TURNER: I've had other -- other uses up
15 there take up a lot more land than that does.

16 MR. WORCESTER: Would you characterize it as
17 being on the fringe of the UT?

18 MR. TURNER: Personally, yes, I would because of
19 Route 11.

20 MR. WORCESTER: Okay. There's been --

21 MR. TURNER: That's my opinion.

22 MR. WORCESTER: Well, there's been some -- we've
23 had some discussion about whether it's on the fringe
24 or not. I was just wondering what your opinion was.

25 MR. TURNER: Yeah, that's -- you know, because I

1 know -- I mean, the Hersey area is being logged now
2 for the last 20-something years and Route 11 goes
3 right through it.

4 MR. WORCESTER: In terms of the land that Haynes
5 owns, is it on the edge of that land?

6 MR. TURNER: It would be on the edge, I guess,
7 you'd want to say, yeah. Yeah. Yes.

8 MR. WORCESTER: Anyone else? Thank you,
9 gentlemen.

10 MR. TURNER: Thank you.

11 MR. WORCESTER: I'm sorry, we're now at the
12 applicant's redirect. This is going so fast I can't
13 keep up with where I am in the paperwork.

14 MS. BROWNE: Well, that's a perfect lead in to my
15 request, Mr. Chair. We have 20 minutes for redirect.
16 And since we're well ahead of scheduled and didn't
17 use our cross for Panel 4, request that we have 15
18 minutes of additional time. We'll try to keep it
19 below 30 minutes, but just want to make sure we cover
20 topics that came up and are responsive to Commission
21 questions.

22 MR. WORCESTER: That's fine. What's that? I
23 need to get an opinion from Intervenor 2 whether
24 they're comfortable with the added time or not.

25 MR. BLOOM: Well, I mean, we haven't been given

1 any opportunity for redirect, but if -- if there's
2 something that we might want to recross on, maybe we
3 would ask for the opportunity to do that afterwards.
4 Otherwise we would, you know, object to this.

5 MR. WORCESTER: Okay. I'll let you redirect.

6 MR. BLOOM: Or recross -- or cross.

7 MR. WORCESTER: Whatever it was you said.

8 MR. BLOOM: Well, we may need a break to think
9 about it after the -- after they're done to just --

10 MR. WORCESTER: Okay. That works, too.

11 (A discussion was held off the record.)

12 REDIRECT-EXAMINATION OF: JIM FINLEY

13 BY MS. BROWNE:

14 Q I think we're all set. All right. Good morning.
15 I'm going to start with you, Dr. Finley. There was
16 some testimony yesterday about -- and I probably
17 caused some of the confusion in my questions of
18 Dr. Maest, but a -- there was a testimony by
19 Dr. Maest that there's the risk of water flowing out
20 of the mine during mine operation.

21 Could you comment on that?

22 A Yes. So the mine -- you can think of the advancement
23 of the ramp down through that squiggly part into the
24 depths where they would access ore, but that opening
25 acts just like a water well, which is to say

1 initially -- and I'll use my hand puppets here, but
2 initially there is a -- a level at which the
3 groundwater exists naturally.

4 And once they start advancing the mine workings
5 or the ramp, they'll actually create an opening in
6 the ground, which is just like you would do with a
7 water well. And as Mr. Ouellette mentioned early on,
8 that the pressure -- air pressure in that opening
9 is -- is atmospheric, it's much lower than the
10 pressure of the water outside of it.

11 And, effectively, water will flow downhill.
12 That's kind of the bottom line. So as long as
13 there's nothing outside of the mine working that
14 exerts a condition where the water level is lower
15 than the mine workings, all water will flow into the
16 mine.

17 Q And what about the presence of fissures or faults,
18 would that then allow -- if those existed, would
19 water flow out of the mine during operation?

20 A Yeah. So -- so fractures or faults, which were
21 mentioned yesterday by Dr. Maest, can act one of two
22 ways. They can act -- either act as a barrier to the
23 flow of water -- and that depends on the nature of
24 the minerals that are associated with those
25 features -- or they can act as a conduit.

1 So, again, the ruling principle is as long as the
2 water level in the mine -- which is, of course,
3 pumped out in order to continue working -- is lower
4 than the groundwater level, the water can only flow
5 into the mine. So if -- let's just say there is a
6 fracture or a fault and it acts as a conduit, then
7 that only means that the water can flow in faster.
8 Water cannot flow uphill. That's really the basic.

9 Q Thank you. And we also have had a lot of discussion
10 and we discussed with Dr. Maest whether it's possible
11 to prevent or to minimize acid mine drainage at the
12 Pickett project and a suggestion that all of the mine
13 walls would, essentially, be leaching.

14 Can you comment on that?

15 A Absolutely. And, Maye, if you could please pull up
16 the -- this is one of the -- the images from my
17 presentation the other day. And I'd just ask you to
18 focus on the lower right-hand corner which is a
19 representation of underground workings.

20 So the black squiggly line that runs vertically
21 is what is called the ramp. And as Mr. Dudek
22 demonstrated, there is evidence that -- there's a
23 portion of the rock that would be part of this mining
24 activity that has very low potential to be acid
25 generating.

1 And the intent then of the development of this
2 ramp, this vertical squiggly line, would be to place
3 that in the rock with the least likelihood of being
4 acid generating. So that in and of itself is a
5 mitigation measure.

6 But it's also important to understand that while
7 this ramp is being advanced and developed, there'll
8 be samples collected of materials coming out of that.

9 And that -- there's two reasons for that. One is
10 we want to understand what the geochemical properties
11 of those materials are as the ramp is advanced. But
12 at some point in time all of that material, assuming
13 it meets the -- the requirements that would be
14 established under Chapter 200 for placing material
15 back underground, would end up back underground.

16 So that is also a mitigation measure to
17 understand what the geochemical properties of those
18 materials are. There's also, actually, a third
19 possibility or potential that that material actually
20 has a neutralizing capacity associated with it. So
21 not only would it have the benefit of not being
22 stored on surface long-term, regardless of what its
23 geochemical content is, but it also has the potential
24 to act as a neutralizing source should there be PAG
25 rock observed underground.

1 Okay. So we've talked about the ramp. The
2 horizontal black lines are tunnels that head toward
3 the ore. So this is just to access where the orebody
4 exists.

5 Now, the majority of the tunnel we anticipate,
6 again, based on the information available to
7 Mr. Dudek, that most of that rock is not acid
8 generating. We're still going to test it as that
9 tunnel gets advanced toward the orebody.

10 And we talked about the sulfide alterations halo.
11 Should that exist -- and in some parts of this
12 deposit it does, in some parts it does not. Should
13 that material or that zone exist, we'll have to go
14 through it and we will measure its geochemical
15 property so we understand what they are as the rock
16 is taken from the ground.

17 Okay. So the tunnel is advanced to the orebody
18 and then mining start. And that's where features
19 called stopes -- and Mr. Ouellette can speak to this
20 more clearly than I can. But the stopes are -- are
21 advanced and they, basically, mine all that material
22 out.

23 Now, it's very important -- we've talked about
24 this a lot over the last couple of days -- for you to
25 understand this zone where there are some places

1 where the pyrite content may be as high as 50
2 percent. So 50 percent of the material is pyrite.

3 As I mentioned in my testimony the other day, I
4 don't need to test that. I know that material is
5 PAG, but it's also the ore that is being extracted.
6 So all of that material is -- will be excavated,
7 mined out and removed from the -- from the system,
8 basically. That all goes to the concentrator for
9 processing.

10 Now, the stopes are -- this activity actually
11 occurs on a fairly rapid basis, which is to say
12 they -- they advance the stope, mine the material out
13 and they backfill it right away. So they don't stand
14 open for a long period of time. And we're talking
15 generally less than a month.

16 Okay. So -- so one of the other things that we
17 talked about that's important in generation of acid
18 rock drainage or acid mine drainage is time. So,
19 yes, there's oxygen, yes, there's water, but you also
20 have to have enough time for the oxidation reaction
21 to occur. So less than a month is actually a pretty
22 short period of time for that reaction in general.

23 We're going to understand that also as we're
24 going to characterize the geochemical properties of
25 that material. Their objective is to remove all of

1 the ore. And, in fact, just because of the -- kind
2 of the way you have to do it, they'll actually remove
3 more than just the ore. So -- so this -- these
4 stopes are going to overexcavate effectively in that
5 zone. And that's not to say there isn't the
6 potential for there to be mine walls in that area
7 that contain sulfides. That -- that probably will
8 happen at some point through the mining process.

9 But the fact that it's backfilled, the fact that
10 a portion of the backfill is cemented rockfill, those
11 are all mitigation measures. And plus that we are
12 doing geochemical characterization during the mining
13 activity allows them to plan whether or not they
14 actually need to amend the backfill and add more
15 neutralizing potential or -- or other measures --
16 mitigation measures.

17 So I think that's pretty important to understand
18 in terms of the likelihood of acid generation -- or
19 acid rock drainage occurring in the mining activity.
20 We don't anticipate it in the -- in the ramp going
21 down or in most of the tunnel length going into the
22 ore zone.

23 Q And Dr. Maest also concluded that in her view this
24 deposit had a high likelihood of acid mine drainage
25 risks.

1 Do you agree with her conclusion?

2 A I don't. And the reason I don't is because of the
3 information that Mr. Dudek has developed. And I
4 think I mentioned this in my testimony the other day.
5 Exploration, development of a geologic model of a
6 deposit is advanced as -- as far as out in front of
7 where typical geochemical -- environmental
8 geochemical characterization takes place. That's the
9 normal state of the business.

10 So what Mr. Dudek has the advantage of is a very
11 large set of data, which -- some of which you saw.
12 But equally important, a clear understanding based on
13 the available information of what the geology is.
14 And as he's described it, they're absolutely our
15 zones that -- where there's sulfide oxidation.

16 But equally important, there are zones where he
17 has not seen sulfide oxidation. And, again, the
18 intent is to place mine workings in the zones with
19 the least likelihood for there to be acid mine
20 drainage.

21 So at a high level you characterize this
22 deposit -- this volcanogenic massive sulfide deposit
23 and place it in the context of some of the work that
24 Dr. Maest has done in the past and you could reach
25 that conclusion that it has a high likelihood. But

1 the details of this specific deposit suggest that's
2 not the case.

3 REDIRECT-EXAMINATION OF: JEREMY OUELLETTE

4 BY MS. BROWNE:

5 Q Thank you. Mr. Ouellette, Dr. Finley talked about
6 the typical timeframe for backfilling the stopes.

7 Can you just comment on that and then the typical
8 amount of time that the tunnels, the horizontal lines
9 on the slide, how long before those are backfilled?

10 A Yes. So as Dr. Finley had mentioned, it's typically,
11 you know, within a month, but -- so we're proposing
12 to mine smaller blocks that will typically be open
13 for around a period of a week before they're
14 backfilled. And then in terms of the drifts, because
15 there are several of these smaller mining blocks
16 along the length of a drift or a tunnel, one of those
17 horizontal tunnels would be theoretically open for,
18 you know, four to four -- five months, somewhere
19 around there. So not overly long durations.

20 Q Thank you. And a question came up on whether there
21 would be crushing of the ore underground.

22 Can you comment on that?

23 A Yes, certainly. So within the petition we described
24 that crush -- any crushing activities would be
25 underground. And I think it's worth noting that

1 we're not crushing -- the product of the crusher is
2 still a relatively coarse rock. And so the surface
3 areas that are exposed to generate ARD are still
4 limited.

5 Q And how long would the crush material be -- remain
6 underground?

7 A So typically we'd have about a one-day inventory and
8 then that inventory would then be brought up to the
9 surface ore pad where about a one-week stand would be
10 the -- the largest inventory we have up there.

11 Q Thank you. And there was also a concern raised
12 yesterday about the potential impact of a drop in the
13 water table level and the potential after the mine is
14 closed for a portion of the mine after it's flooded
15 to be reexposed if there's a drop in the water table.

16 Can you -- and it was also discussed that the ore
17 deposit goes very close to the surface.

18 So can you comment on that concern?

19 A Yeah, I sure can. So the deposit does express on
20 surface, it comes to the top. But it's worth
21 noting -- and it shows -- it actually shows in this
22 diagram as well -- that the mining excavation does
23 not go to the surface.

24 So the very top of the mine excavations would be
25 roughly around 100 feet vertically from the surface

1 deposit, well below any potential fluctuation of that
2 water table.

3 Q There was also -- although the commissioner is not
4 here, there was a question on contractors and why you
5 would have contractors in the early stage of
6 construction in the project.

7 Can you just clarify that?

8 A Yeah. Thank you. There is a little bit of confusion
9 there. So when I was speaking about the early stage
10 contractors or those related to the mining-specific
11 activities, and they would be hired to ultimately
12 work with local workforce, increase skill set and
13 experience in the mining operation.

14 The contractors that were discussed by the -- by
15 the commissioner were related to the construction
16 activities. And I'd like to just confirm that
17 construction activities would indeed be hired through
18 local contractors because those skill sets do exist
19 in the state and it -- it only makes sense for us to
20 hire, you know, as near the project as possible with
21 skill sets that understand the location.

22 Q There was also a question -- I believe it was
23 Commissioner Hilton wondered if we had a photograph
24 of the headframe.

25 So can you just describe the two photographs that

1 have been provided?

2 A Of course. So there are -- I believe, the two first
3 photographs -- Maye, have you got them? The two
4 first photographs are examples of headframes. So,
5 actually, the headframe photographs may be at the
6 end. So this is an example of a nearby headframe.
7 This is actually the Caribou mine. And just to
8 describe it, a little bit.

9 It's a tall building, in this case 120 feet tall.
10 The two wheels at the top of the headframe are just
11 pulleys. There's ropes that goes over those pulleys
12 and vertically down into a shaft connected to
13 buckets, essentially, called skips. And those --

14 Q And then the second headframe example?

15 A So this is -- this is another example of a headframe.
16 This is actually a tourist attraction. And it's
17 again a similar type of building, it's just a tall
18 structure. The sheaves or the pulleys at the top of
19 it are hidden by a -- by a top of the building in
20 this image, but this is another example of a
21 headframe.

22 Q And then I -- go ahead.

23 MS. HILTON: Can I ask just a quick question. So
24 is there lighting on this?

25 MR. OUELLETTE: So the lighting that you would

1 see in these headframes are typically around the
2 entrances, the doors, around the bottom and they're
3 downward-facing lighting.

4 In our case, we would do the same. So, like, the
5 entrances are only -- they would only have lighting
6 where needed for, you know, pedestrian traffic. And
7 they would only be used as needed.

8 MS. HILTON: So FAA doesn't require lighting at
9 the top; is that correct?

10 MR. OUELLETTE: So we actually had a review of
11 the FAA requirements and it's typically, I guess --

12 MS. HILTON: 200 feet maybe?

13 MR. OUELLETTE: Yeah, 200 feet is the -- is the
14 limit there. And they're 120.

15 MS. HILTON: Okay. All right.

16 BY MS. BROWNE:

17 Q I think also there was a question about, you know,
18 just a picture of what the mine might look like.

19 So can you comment on the photographs that were
20 provided and just what they are?

21 And I'm just -- in the interest of time, just
22 describe -- just identify what these photographs are,
23 and if we have time at the end we can walk you
24 through the facilities.

25 A Great. So this first picture, this is sort of an

1 overview of the Halfmile Mine that was -- or that is
2 in -- outside of Miramichi, New Brunswick. And if
3 you scroll to the second picture, this is just a
4 zoomed-in image. The Halfmile Mine was broken up
5 into two segments. This is a zoomed-in image of the
6 water management area.

7 And if you go to the third image, this is a
8 zoomed in image of the actual mining area which is
9 inclusive of a portal ore storage pad, waste rock
10 storage pad and then some infrastructure.

11 MS. BROWNE: Thank you. And we'll be happy, if
12 there's time at the end, to -- to talk in greater
13 detail about that.

14 Doug, I wanted to turn to you for a minute.

15 REDIRECT-EXAMINATION OF: DOUG STEWART

16 BY MS. BROWNE:

17 Q There have been some questions on the -- if we have
18 any information on the pH of the surrounding water
19 bodies.

20 Can you comment on that?

21 A Sure. Yes, we do. There's been to date 11 surface
22 water samples taken from places like Pickett Mountain
23 Pond, Pleasant Lake, the west branch of the
24 Mattawamkeag. Some of those water bodies have more
25 than one sample. And the results are the range of pH

1 is 6.3 to 7 with the average being 6.7.

2 Q Thank you. And then we've also heard from the
3 last -- Intervenor 2's last witness panel about
4 concerns about sort of a catastrophic impact to the
5 surrounding, for example, Pickett Mountain Pond and
6 Pleasant Lake.

7 Can you talk about what further analysis will be
8 done in connection with that risk?

9 A Sure. My understanding is under Chapter 200 a
10 detailed evaluation of a potential catastrophic risk
11 would need to take place under a scenario -- in this
12 case possible impacts to the surface water bodies
13 such as Pickett Mountain Pond. And a scenario would
14 be developed as far as water quality impacts,
15 potential other ecological impacts and what those
16 would be and a cost estimate would be developed.

17 Q And what type of data goes into that analysis?

18 A A lot of data. Anywhere from climatic data, what the
19 circumstances are when the event happens, soil
20 chemistry data, surface water -- or water data from
21 the actual impacted water, and then the water --
22 water quality within, say, Pickett Mountain Pond and
23 then any impact -- data from impacts to things like
24 fish species, so on.

25 Q And would there be the potential to impact Pleasant

1 Lake?

2 A There could be, but I think that would be pretty far
3 extreme and probably not within the scope of a
4 catastrophic event at Pickett Mountain Mine.

5 Q And does that have anything to do with where the
6 watershed divide is?

7 A It does. The water shed divide runs across the --
8 the site. The storage ponds and the ore storage is
9 all on the Pickett Mountain Pond side of the
10 drainage. So if there were an event, everything
11 would go in that direction.

12 MS. BROWNE: Thank you. I want to return to
13 Dr. Finley for a moment.

14 REDIRECT-EXAMINATION OF: JIM FINLEY

15 BY MS. BROWNE:

16 Q I think from the number of commissioners' questions
17 on, are there any examples of mines that have been
18 successful and are not contaminating surrounding
19 resources -- could you comment on just whether there
20 are some examples that -- that you're aware of?

21 A Sure. I have two for you. One is an open pit mine.
22 And, remember, I spent a lot of time talking about
23 the fact that an open pit mine is not comparable.
24 But for purposes of talking about successful mining
25 operations, this is a good example.

1 It is the Fort Knox mine, which is in Alaska.
2 And it's a very large mine. I think they run upwards
3 of 16,000 tons of ore processed per day. Again, it's
4 a very large open pit, so they have waste rock piles,
5 they have a wet tailing impoundment. It's a very
6 long tailing impoundment. The -- the dam is probably
7 100 to 200 feet high. So it's a very large feature.

8 And they are located kind of in a headwaters of
9 the catchment where -- where they are mining ore. So
10 it's a comparable from that perspective. They have
11 not had any environmental issues over the course of
12 their mining operation, which has been for tens of
13 years.

14 The other example is a small underground mine in
15 Quebec called Louvicourt. And as I mentioned, it is
16 an underground -- well, was an underground mine that
17 operated --

18 MS. BEYER: Dr. Finley, could you -- could you
19 repeat the name of that mine for me, please?

20 MR. FINLEY: Yeah, I know. It's Louvicourt.

21 MS. BROWNE: Do you want to spell it?

22 MR. FINLEY: Sure. Go ahead, Jeremy.

23 MR. OUELLETTE: It's L-o-u-v-e-c --

24 MR. LITTLE: L-o-u --

25 MS. BROWNE: Oh, you turned off the mic.

1 MR. LITTLE: I feel like it's a spelling bee.
2 L-o-u-v-i-c-r-o-u-t (sic) -- Louvicourt.

3 MS. BROWNE: Could you use it in a sentence?
4 Continue, Dr. Finley.

5 A Okay. So underground mine operated from 1994 to
6 2005. It is closed. They used backfilling
7 techniques there as well. But they also have a wet
8 tailing impoundment. And it's a sulfide deposit,
9 similar to Pickett Mountain.

10 And what they've used for their wet tailing to
11 control it in closure is actually to put a water
12 cover over the top of it. And if you remember my
13 triangle, or Dr. Maest's equation, oxygen is one of
14 the main components for sulfide oxidation.

15 So by placing a water cover over the tailing --
16 even though it's a wet tailing impoundment, if you
17 have a water cover, that prevents oxygen from
18 interacting with the materials. And it's been proven
19 to be very effective for long-term management and
20 control at prevention of acid mine drainage.

21 So, again, a small underground mine that has been
22 closed successfully. They don't have any measurable
23 environmental impact.

24 MR. LITTLE: The surface stuff. The surface
25 stuff.

1 MR. FINLEY: Right. Yes. So they do -- they
2 didn't put all the material back underground. And
3 that is a difference with Pickett Mountain. So they
4 do have waste rock that's stored on surface and they
5 have to manage that. So they have had acid mine --
6 or acid rock drainage form with those. It has not
7 discharged to the environment. They've been able to
8 manage the seepage.

9 And as part of their closure activities they're
10 actually consolidating all of those in one location
11 and -- and placing a proper cover over it.

12 REDIRECT-EXAMINATION OF: RON LITTLE

13 BY MS. BROWNE:

14 Q Thank you. Mr. Little, there were some questions and
15 there might have been some confusion about Wolfden's
16 Manitoba projects.

17 Can you just describe what those are?

18 A Yeah, thank you for that. I think the clarification
19 is about what's an operation versus an exploration
20 project.

21 So Wolfden is an explorer/developer and all of
22 our properties are considered exploration development
23 properties, but they're -- none of them are operating
24 mines. So don't be confused with operating versus an
25 exploration property.

1 Q Thank you. And could you describe the next phase of
2 work that Wolfden would do -- and in particular,
3 there were some comments about why hasn't Wolfden
4 done the additional analyses that, for example,
5 Dr. Finley and Dr. Maest have both discussed and that
6 would need to be done to fully characterize the site,
7 fully evaluate the risks of acid mine drainage?

8 A Yeah, good question. I think I'll break that into
9 two. So far after buying the property we've spent at
10 least 8 million doing all the work that has led up to
11 the PEA. So that includes about 17 to 20,000 meters
12 of drilling, we've done all this engineering and
13 detailed work that goes into the PEA.

14 And all of that, you know, came to a
15 conclusion -- you know, the PEA is an independent
16 document that we need in Canada as a way to qualify
17 the work we've done for investors. And all of that
18 work has told us we're very comfortable now to go on
19 to the mining stage. And that's the very nature of a
20 preliminary assessment.

21 And the reason why you spend this 8 to 10 million
22 to get to that point is because the next part of the
23 study work is what we'd call a full feasibility
24 study, which includes all this baseline work, it
25 includes all this rock characterization, the

1 hydrogeology, all the work that Doug is going to do
2 on the background of the baseline of work, the flora,
3 the fauna. That is going to be 15 to \$20,000,000.

4 And regardless of Maine, you wouldn't go do that
5 full feasibility until you've done the PEA. So I
6 know there's been questions about the resources being
7 inferred or indicated. We've done enough drilling,
8 we know we're going to convert that inferred and
9 indicated. It's just a matter of more drilling.

10 And that additional 15 to 20 million is going to
11 include about another 17,000 meters of drilling
12 within the orebody we've already outlined just to
13 confirm that it's there before we do our mine plan.

14 So it's a two-step approach, but it's a
15 considerable amount of money, which is why we're here
16 on this -- this Commission is to let -- you know, now
17 we want to go to proceed to do all that work. And,
18 coincidentally, that just falls under the Chapter 200
19 format.

20 Q And there were questions about -- and you just
21 mentioned the inferred versus indicated resources. I
22 think it's 50 percent inferred, 50 percent indicated
23 in the PEA.

24 Is that typical, unusual for a PEA level study?

25 A No, actually, it -- like, the basis of an inferred --

1 again, this is a Canadian regulation. It all stemmed
2 out of a previous, you know, fraud within the mining
3 industry. So we've got an extremely tight regulation
4 of what we can call ore.

5 And the nature of a PEA is you can have 100
6 percent inferred. We've got 50 percent indicated and
7 we've got a type of orebody that's very continuous.
8 You know, this -- not -- not every orebody is the
9 same and some require very tight drill density,
10 others require less.

11 And the 50 percent inferred is only -- can be
12 upgraded by just tightening up the drill density. So
13 that's why we put more holes in between the other
14 holes to qualify that the level of confidence is
15 still there.

16 MS. BROWNE: Thank you. I think that's all I
17 have unless you want Mr. Ouellette to provide any
18 additional detail on the Halfmile photographs if that
19 would be helpful.

20 MR. WORCESTER: Leo.

21 MR. TRUDEL: Thank you. I understand --
22 yesterday it seemed like there was some sort of a
23 discourse as it pertained to the samplings between
24 Dr. Maest and what you had presented.

25 Could you possibly explain that further as it

1 pertains to the number of samplings, where they were
2 taken, how -- essentially, it's the research method,
3 correct?

4 MR. FINLEY: It's -- it's -- well, the answer is,
5 yes, I'll do that. It's a matter of I think everyone
6 in the room and certainly on Wolfden's side
7 acknowledge that -- well, that ore will be PAG, that
8 will be the characteristic of that material.

9 So does that mean we will not sample it? No. We
10 will sample it and we'll confirm that. We'll confirm
11 its geochemical characteristics.

12 The -- the point of the discussion with Dr. Maest
13 and -- you know, I agree with her in general in terms
14 of --

15 MS. BROWNE: I'm just -- can I just interrupt for
16 one minute --

17 MR. FINLEY: Yeah, sure.

18 MS. BROWNE: -- and just clarify? I believe
19 you're asking about the seven acid-based tests that
20 were conducted. And Dr. Maest noted that they didn't
21 conduct them within the ore, but they conducted them
22 outside of the ore.

23 MR. TRUDEL: Actually, to -- to the best of my
24 recollection it had to do more with the number of
25 samples --

1 MR. FINLEY: Yeah.

2 MR. TRUDEL: -- the core drillings that were
3 taken as it pertains to the number that were tested.

4 MS. BROWNE: Thank you.

5 MR. FINLEY: And -- and I was heading that
6 direction, but thank you --

7 MS. BEYER: You're ahead of me.

8 MR. FINLEY: -- for the clarification.

9 So one of the requirements as a geochemical
10 characterization is that you, in fact, collect
11 samples and analyze of all categories of mine rock
12 that may occur. So ore, waste rock, tailing -- well,
13 those are the main categories, actually.

14 So it's important to -- to also do that in the
15 context of the geology that exists. And Dr. Maest
16 described the different colors of the cross section.
17 Each of those different colors represents a different
18 type of rock. And Mr. Dudek had samples of a few of
19 those.

20 So the -- the question of how many samples do you
21 have of each rock type is also tied to the mine plan,
22 which is to say if there's rock Type A, and there
23 will only be a very small amount of that material
24 excavated during the mining activity, you don't need
25 as many samples to characterize it. Whereas, rock

1 Type B, which may comprise most of the waste rock,
2 you need to have more samples. And there are
3 guidelines for the number of samples appropriate to
4 the amount of rock that's -- that's taken.

5 Okay. So that's just fundamentally how the
6 geochemical characterization and thinking about
7 representativeness, right, we talked a lot about
8 modeling and making projections and, you know, Yogi
9 Bear said it best, it's -- prediction is hard,
10 especially about the future. But, I mean, that --
11 we -- that is something we have to do necessarily.

12 So the number of samples -- the focus of the
13 initial program is -- and those seven samples was,
14 again, not to look at the ore, because we know what
15 the ore is right now and we're fairly confident about
16 that. What we really need to understand better is
17 the rock that's outside the ore zone because we'll
18 have to go through some of that material.

19 The number of samples that have been collected to
20 date, seven, is a start. It's an indicative measure
21 of what the geochemical properties of the rock are.
22 That in conjunction with a much larger dataset that
23 Mr. Dudek has, plus his geological observations of
24 the core -- because they look at every inch of the
25 core in terms of mineralogy and -- and properties of

1 the -- of the -- of the core -- provide the basis for
2 the statements currently made with regard to the
3 geochemical characteristics of the different
4 lithologies.

5 Again, I -- all of that will have to be confirmed
6 with the appropriate amount of samples relative to
7 the amount of different rock types that are removed.

8 MR. LITTLE: Can I just add something to that?
9 Sir, just for further clarification, when we drill
10 through the orebody, you know, as an explorer we take
11 a sample and send it to the lab. At the exploration
12 stage we're not looking at ARD or anything like that.

13 Just to run that sample for metals is roughly 35
14 to \$40 per sample. So we don't start to do the ARD
15 until -- once we decided to go into the PEA, then we
16 decided where those seven samples were. And because
17 we've drilled, let's call it, 200 holes through the
18 rock, we see hole by hole that the rock is quite
19 consistent. So once you see that piece of core and
20 you've taken an ARD sample, you can now look at the
21 other 200 holes and say, We've got that in another 80
22 holes, it's the same rock.

23 So at the early stages of a PEA you don't have to
24 take a hundred samples of the rock that you already
25 see is the same. So it's -- that's part of the

1 nature of the PEA. Once you've confirmed it's --
2 it's in your liking, then you go on and do the more
3 detailed work and the feasibility study with -- with
4 the more characterization.

5 MR. TRUDEL: Thank you. That helps a lot.

6 MR. WORCESTER: Gwen.

7 MS. HILTON: On a totally different topic, are
8 we -- a question to ask Mr. Ouellette there. Is that
9 okay to move on to something totally different?

10 MS. BROWNE: This is all your time now.

11 MS. HILTON: Okay.

12 MS. BROWNE: I'm done.

13 MS. HILTON: So how many years will Wolfden
14 actually be a presence in this area? And I'd say,
15 you know, doing the -- the Pickett Mountain Mine
16 project? And when they will actually be employing a
17 fair number of people? How many years are we
18 talking? I know you had a schedule there, but I
19 guess I need clarification on that.

20 MR. OUELLETTE: Great. Thank you. So to
21 clarify, is it how long until we anticipate to start
22 employing majority of the workforce?

23 MS. HILTON: Yeah. I mean, you -- you talk about
24 all these jobs you're going to be -- you're going to
25 need and I'm just kind of wondering what span of time

1 is that? And I know this is maybe an estimate,
2 but --

3 MR. OUELLETTE: Yeah, so our --

4 MS. HILTON: -- the majority of those.

5 MR. OUELLETTE: -- our best estimate so far with
6 relation to the work that's required under, you know,
7 rezoning and -- and the duration of that and then the
8 duration of work required to theoretically get a mine
9 permit, assuming everything is, you know, favorable
10 is between the four- to five-year kind of timeframe.

11 And certainly leading up to the -- to the latter
12 end of that is when we'd be hoping to be, you know,
13 training and recruiting and that sort of activities.
14 So that during the construction phase there's that
15 two-year period of construction of the -- the asset.
16 Those would be, you know, via local contracts of
17 skill sets that exist here.

18 And then after that construction phase is when we
19 would be ramping up. And to that -- that -- where I
20 summarize sort of the -- the types of employment that
21 would be happening over the steady state tenure
22 operation. At which point it would be -- you know,
23 in this particular case at the mine we're estimating
24 around 233 people.

25 And I had mentioned as well roughly a -- sort of

1 a two-year ramp up period of starting with an
2 existing skill set somewhere, you know, throughout
3 the state to come out and work with our trainees,
4 let's call them, and increase the experience and
5 skill set locally. And then ultimately transitioning
6 that directly to local workforce.

7 MS. HILTON: And then you've got closure --

8 MR. OUELLETTE: Yep.

9 MS. HILTON: -- which is how many years?

10 MR. OUELLETTE: Between two or three years of
11 reclamation, which would also be done using local
12 contracts, train -- local workforce. Because, again,
13 you're dismantling steel buildings, you're pulling up
14 foundations, redoing earthworks and then revegetating
15 the site. So those are all skill sets that exist
16 here as well.

17 MS. HILTON: So what -- after closure, I mean,
18 there's monitoring that continues and I assume that's
19 a much reduced number of people involved in that?

20 MR. OUELLETTE: Yeah, so that, you know,
21 perpetual monitoring will be done, you know, on a
22 frequency that's decided and approved by the DEP.
23 But once that schedule is established, then,
24 obviously, the workforce to support that is
25 established as well.

1 And -- but, yeah, it's certainly minimized
2 relative to the 233 people that would be working at
3 the operation during the operating period.

4 MS. HILTON: So I'm just -- I'm trying to put
5 together the socioeconomic impacts in the area. And
6 based on the -- the length of time that -- where
7 you're going to be actually providing a lot of
8 employment and a lot of other activity going on.

9 And it sounds like -- so you have the ten years
10 and then you're -- working backwards, we're 10, 11,
11 12 -- I mean, what are we talking when you add all
12 that up?

13 MR. OUELLETTE: So 14 or 15 years --

14 MS. HILTON: 14 or 15 years?

15 MR. OUELLETTE: -- all in -- yeah. And I think
16 in the -- in Michael LeVert's testimony it was 14 --
17 14 years. Yeah.

18 MS. HILTON: Okay. And within that time period
19 it's possible that another company may come in and --
20 I don't know what the right terminology is, but buy
21 out or become a manager for this facility. And
22 that's correct, isn't it?

23 MR. LITTLE: Let me answer that. Moving into my
24 territory. Great question. I'm glad you asked that.

25 I'll just -- I'll just add one more thing to the

1 14-year period. What -- there is lots of potential
2 in Maine for more deposits. I think you've heard of
3 the lithium deposit down near Newry as well. So we
4 intend to take the funds that we're making out of
5 Pickett Mountain and to continue to explore.

6 When you develop a workforce in a new
7 jurisdiction with as much potential as Maine has for
8 more ore bodies, we hope to parlay that into finding
9 more projects. And right now there probably would be
10 more companies exploring in Maine if the permitting
11 process was a little more simple.

12 So I think companies are watching us to see how
13 we get through this process of first the -- the
14 Commission now, then how we would deal with
15 Chapter 200. It won't be until only after that -- or
16 at least I don't anticipate any corporate transaction
17 until we get through the DEP process. Because this
18 has been, to be honest, quite an elaborate affair
19 that's a bit unusual in the mining industry.

20 And -- and I think, you know, having the video,
21 people are going to be watching and saying, That's
22 quite a remarkable thing. You know, you guys are on
23 the path to perhaps success; we're going to wait
24 until you get through the next phase, too. So I
25 don't think we're going to see any corporate

1 transaction until we get through those two things.

2 And I -- and I think knowing a bit about
3 Chapter 200, if somebody were to acquire Wolfden,
4 they have to absolutely commit to all the things that
5 we have committed to. So if we sign a permit and we
6 do all of our commitments, essentially under a
7 corporate transaction, that company absorbs Wolfden
8 as a subsidiary and effectively I could see Wolfden
9 carrying on as the operator in -- in the state even
10 though it's a subsidiary of another company.

11 So all of the requirements that we have to follow
12 for operating are still going to be, you know, a
13 requirement of whoever steps in behind us as a -- as
14 a partner.

15 MS. HILTON: I see. Do you consider your company
16 primarily involved in development and less involved
17 in the actual operation?

18 MR. LITTLE: It's been my quest in my career --
19 since we're sort of focused in on such a small
20 group -- is to build mines. But I am at the mercy of
21 a public market.

22 And as you go to a new jurisdiction and you
23 develop a great project, that's usually when a bigger
24 company comes along and says, Thanks for all the good
25 work and all the effort, but here's an offer to buy

1 you out. And because I don't personally own the
2 company, the shareholders do, they basically put out
3 an offer. And then if the shareholders accept it,
4 there has to be a transaction.

5 But myself, Jeremy, I mean, we've got a track
6 record of -- of operating and building mines and we
7 would love to turn Wolfden into a much larger company
8 that can continue to keep exploring in this state
9 because we love the potential, we like the people,
10 we've spent five years getting to know the local
11 people.

12 You know, these things take a lot of time, but
13 you get quite involved and endeared with the
14 community. So our passion is to stay here.

15 MS. HILTON: Okay. I guess I have a -- just a
16 question for staff. It is my understanding -- and
17 this is a little confusing, I think, sometimes --
18 that LUPC -- this issue of socioeconomic impacts is
19 looked at LUPC as -- and DEP does not really --
20 that's not really something that they get into; is
21 that correct?

22 MS. BEYER: That's correct.

23 MS. HILTON: So, I mean, I -- do you want to
24 clarify that?

25 MS. BEYER: Sorry, I've got to keep pushing mine

1 down. We definitely have standards in Chapter 12
2 that address socioeconomic concerns. And typically
3 DEP doesn't address those things, but what I want to
4 clarify is I don't have a strong understanding of all
5 of the -- the standards in Chapter 200, which is a
6 little different than some of the other -- the rules
7 that DEP administers.

8 So I'd have to want -- want to clarify that for
9 you in terms of whether they pulled in any
10 socioeconomic standards of Chapter 200.

11 MS. HILTON: Okay. Thank you. I guess my point
12 here is that there are certain things that our
13 agency, organization, looks at that the -- the DEP
14 Chapter 200 rules probably do not address. And so
15 when we say that, you know, we'll pass it on to the
16 next agency because they have all these strong rules,
17 there are certain things that we as an agency have to
18 look at.

19 Am I -- how am I sounding? Am I getting out of
20 line there, counsel?

21 Okay. And I guess that's the point I really
22 wanted to make. So this discussion is -- is very
23 important to us; not that they all aren't. Thank
24 you.

25 MR. LITTLE: Can I beg to add to your commentary

1 on that? I'd only go back to the comment on --
2 because of your question about the takeover because
3 we're heard from, particularly the opposition, about
4 how small we are and that we're a Canadian company
5 and we're trying to become Mainers.

6 But I think, you know, if a transaction were to
7 happen, it's likely going to be by a much bigger
8 company. It might actually make, you know, people
9 more comfortable with the bigger balance sheet, a
10 bigger track record. And, of course, to me that only
11 adds to the socioeconomic benefits, perhaps, or the
12 comfort level thereof.

13 So I think that's -- that's all part of your
14 upside in allowing us to get through to the next
15 stage is that there will be other companies looking
16 to come to Maine, which to me is attractive for this
17 whole region.

18 MR. WORCESTER: Leo, did you have a comment?

19 MR. TRUDEL: Yes. I have another question.
20 Since we're talking about projections and current
21 market conditions as well as -- and you brought it
22 up -- the balance sheet, I did not see anything that
23 pertained to your financial viability as it pertains
24 to your financial statements.

25 And I was wondering if that is something that you

1 could actually bring to the table at some point?
2 You -- you're traded publicly, so I'm assuming that
3 you have audited financial statements.

4 And, basically -- again, I see where your
5 projections are more of a mark-to-market type of
6 accounting as opposed -- and it's based upon what the
7 future might be and what the future will bring as
8 opposed to what you are now.

9 And your book value is something, I think --
10 again, you brought it up -- a firm with a larger
11 balance sheet would maybe add more credibility. I
12 don't -- I don't mean that in a negative way, but
13 it's certainly presents a comfortability level for, I
14 believe, everyone.

15 MR. LITTLE: Yeah. So there's -- there's a
16 couple of things I want to address here. First, we
17 are public and all of our financials are -- you know,
18 our annual statements are audited. The quarters are
19 not reviewed at this stage because we're a small cap
20 company. But they're filed on CDARS, there's also on
21 our website so you can see all of our financials.

22 There's a statement in there that the opposition
23 has used that related to the going concern. We put
24 in there, not our auditors, that, you know, there is
25 a risk that we can't raise money next year because

1 all of the money we've raised is typical -- you know,
2 most of it except for our timber revenue is raised by
3 issuing shares. And that -- that is done by, you
4 know, the attractiveness of our properties in the
5 company.

6 So Pickett Mountain is our, what we call, the
7 flagship. And so the value of that, much like our
8 investor related to, is there's a great comfort level
9 that the asset is very real, it can be a mine. Now
10 we're at a stage is, can you get a permit?

11 So if we were to get through rezoning, I expect
12 our stock price to go up. And that allows us to
13 raise the 15 to 20 million do the execution.

14 Behind us is a major company, Kinross, the Fort
15 Knox mine that was mentioned is one of our biggest
16 shareholders. They're looking at us saying, This is
17 an attractive asset, it's an attractive belt; we'll
18 support you with your efforts because we're the guys
19 down here on the ground trying to get through the
20 permitting in a new jurisdiction.

21 ALTIUS is an intermediate size company, they're
22 also a financial backer. So we've got really 40
23 percent of our investors in -- you know, Mr. Fieler
24 who was here is 20, let's call it, Kinross is close
25 to 10 and ALTIUS about 10. So they're our

1 cornerstone investors to see that we progress.

2 And it's not until we get to the -- close to the
3 final permit -- and, in fact, what we would expect is
4 the DEP would say, Okay, you've -- you're -- we're
5 going to give -- you know, we've reached through to
6 the permit approval, but you can't start until you
7 put all the money upfront as part of the assurance
8 bond. At that point in time we're ready to fully
9 finance. And that's when the funding comes in to do
10 all the work.

11 So it's -- it is a progression to get there
12 and -- and we expect our market cap to improve as we
13 get through each mile stone.

14 And then -- sorry, just before I forget. You'd
15 made -- I think you were alluding to our projections.
16 Whether it's the PEA or the full feasibility, it's
17 all based on the same metal price assumption. So
18 you'd heard we used a three-year running metal
19 average. You do that in the PEA and you do that in
20 the feasibility because you can't really predict the
21 future.

22 And so all the revenues are based that way, but
23 then you put in all the assumptions on your costs and
24 your recoveries. I mean, there's quite a bit of
25 information. We'd love to show you a spreadsheet on

1 how we do it, but there's many different tabs for all
2 the different costs. And even in the PEA we used,
3 you know, real quotes. You know, A to Z Mining went
4 out and got real quotes for many of the
5 capital-priced items. You know, the big ticket items
6 they were quoted for. And then he also researched
7 the current labor rates in the U.S.A.

8 So I know he referred to it as a pretty good
9 guess, but I'd beg to differ. There was a lot of
10 work that went into that PEA.

11 MR. TRUDEL: I would look forward to that -- to
12 the report and -- and what -- what you're willing to
13 share.

14 MR. LITTLE: Okay.

15 MR. TRUDEL: Thank you.

16 MR. LITTLE: Thank you.

17 MS. BROWNE: So just so I'm clear, do you want us
18 to -- I mean, the financial statements are public.

19 Do you want us to actually provide a copy of the
20 most recent audited financial statement so that it's
21 in the record?

22 MR. WORCESTER: You're on.

23 MR. ELWELL: Yeah, I think if -- to the extent
24 Commissioner Trudel would like to see that, I think
25 it should be part of the record.

1 MS. BROWNE: Okay. We'll do --

2 MR. ELWELL: I think --

3 MS. BEYER: -- that as follow-up to the hearing.

4 And are you also asking for the financial model
5 that was -- went into the PEA, the spreadsheet that
6 Mr. Little referred to?

7 MR. TRUDEL: If -- if you're willing to -- to --
8 yes.

9 MS. BROWNE: Yes. So we'll follow up with that
10 as well. So two --

11 MR. TRUDEL: That will be great.

12 MS. BEYER: -- two follow-up items. Thank you.

13 MR. TRUDEL: Thank you.

14 MR. LITTLE: I'll just add, the -- because it's
15 going to the record, it won't be the working Excel
16 spreadsheet. You know, you'll see all the numbers,
17 but you won't be able to work it.

18 MR. TRUDEL: To --

19 MR. LITTLE: Yeah. Well, it's actually
20 proprietary as well. The mining companies kind of
21 keep their working sheet to themselves to a certain
22 degree because you develop this over time with a lot
23 of experience. Yeah.

24 MR. TRUDEL: Understood.

25 MR. WORCESTER: Let me give you a history lesson.

1 Back in the day the LUPC made all the decisions in
2 the unorganized territory on every project. As time
3 progressed and projects got more complex, things
4 changed.

5 The LUPC has 25 employees to do -- and we zone
6 and permit 10.4 million acres with 25 people. And we
7 make all these decisions about development within the
8 unorganized territory with 25 people.

9 Well, the legislature said, Things are getting
10 too complicated. So they started out with large
11 scale developments. So if we have some developments
12 that are over -- how many lots?

13 MS. BROWNE: 30 acres.

14 MS. BEYER: Residential it's 15 lots and 30
15 acres.

16 MR. WORCESTER: -- okay, 15 lots and 30 acres,
17 it's bumped over to the DEP. They've got 300 or so
18 employees. They've got a lot more expertise.

19 Then all of a sudden there's some interest in
20 mining, we've got the same situation. We've got 25
21 people who don't know anything about mining. They've
22 got over 300 and a lot of them are specialists in a
23 lot of areas.

24 So the legislature passed Chapter 200 or whatever
25 it is. So we're kind of in a bind with some of these

1 dual project improvement situations. They leave us
2 to say, Yes, you -- you need to rezone this in order
3 for, for example, Wolfden to progress to the DEP.
4 But we have all these regulations as well,
5 socioeconomic and -- and environmental issues and all
6 this.

7 And so we're in a quandary sometimes ourselves.
8 How in depth do we need to have information to rezone
9 when we know under Chapter 200 all of these things we
10 wished we had we'll have in hindsight because you'll
11 have to develop it for them?

12 So it's not -- it's complicated to -- and I
13 brought this up yesterday. Where is the line when
14 enough is enough for rezoning versus enough is enough
15 for the real deal?

16 So that's -- that's my spiel before I have my
17 ending spiel. All right.

18 MR. LITTLE: Juliette, on that note am I allowed
19 to say thank you to the Commission?

20 MS. BROWNE: Yeah.

21 MR. BLOOM: We're going to take a break and have
22 potential questioning.

23 MR. WORCESTER: Yes. I forgot.

24 MS. BROWNE: Do you want to break first or --

25 MR. BLOOM: Can we have, like, ten minutes to

1 just discuss --

2 MR. WORCESTER: Okay.

3 MR. BLOOM: -- and figure out --

4 MR. WORCESTER: I think that's fair.

5 MS. BEYER: And if you don't mind, I have two or
6 three questions I could ask --

7 MR. WORCESTER: Okay. Tracy has -- I mean,
8 Stacie has some questions as well. Go ahead with
9 yours, Stacie, and then you folks can come up.

10 MS. BEYER: Thank you. Dr. Maest in her
11 testimony seemed to indicate that most mines use
12 dewatering wells.

13 Dr. Finley, is there -- do you have an example of
14 a modern mine that doesn't use dewatering wells and
15 are successful?

16 MR. FINLEY: It depends on the type of mine.
17 Most underground mines do not use dewatering wells.
18 And I believe Louvicourt did not, but I would have to
19 check that. Most -- almost every single open-pit
20 mine uses dewatering wells.

21 MS. BEYER: Thank you for that.

22 MR. FINLEY: Sure.

23 MS. BEYER: And you mentioned in -- in the
24 redirect that if there's additional neutralization
25 needed when you're backfilling that the waste rock

1 could be amended.

2 Could you explain how that would happen?

3 MR. FINLEY: Sure. I talked about this a little
4 bit in my testimony, but it's possible to enhance the
5 neutralizing capacity of backfill material beyond
6 what may be naturally there by adding amendments such
7 as lime. So lime -- again, we talked about that. I
8 won't go into it again.

9 But that is a method that's commonly used in the
10 mining industry.

11 MS. BEYER: Thank you. And last one: Are there
12 any other effective or emerging best management
13 practices that would prevent or mitigate for acid
14 mine drainage in the mine that we haven't mentioned
15 yet in this hearing?

16 MR. FINLEY: I think some of the other people
17 testifying have eluded to several things that are
18 kind of in the works. There are people who have
19 spent their entire career looking for ways to manage
20 bacteria, for example.

21 And it turns out that there actually are ways to
22 do it. So I'll just tell you that if you spray sour
23 milk on -- on the rock, it will kill the bacteria.

24 So the trick is -- as in many large mining
25 operations -- and that's where it becomes very

1 important. If you have hundreds of thousands of tons
2 of material you're managing, how do you do that?

3 So a smaller operation has a better potential to
4 think about doing something like that. So -- so
5 that's managing the bacteria part of the triangle
6 that actually has four parts to it.

7 There's ways to limit precipitation interaction
8 with the rock. So to, essentially, keep it dry or to
9 limit the amount of water that can migrate, filtrate
10 through the rock.

11 So, for example, a mine in Peru that I was at, a
12 very large gold mine, has a -- and, again, different
13 operation, different process, but fundamentally
14 they're managing rainfall input -- and this is where
15 having workforce comes in handy -- by actually
16 spreading plastic over this gigantic heap leach pad
17 that's got to be a half a mile long and -- and on a
18 very steep slope.

19 So they have people actually hauling plastic out
20 over this heap leach pad to limit the amount of
21 precip they get in their system. So there are other
22 ways to do that by adding sealants to the surface,
23 for example, of a waste rock pile to, again, prevent
24 or limit the amount of water going into it.

25 So some of those are -- are, you know, things

1 that are great ideas, but are not practical in large
2 operations. Some of them are -- just need some
3 additional test work to implement. But the target
4 is -- and Dr. Maest mentioned it -- prevent it in the
5 first place, that's the -- the best measure.

6 Then you have a list of mitigation measures. You
7 don't walk into any of these programs with a single
8 mitigation, you have -- you have a playbook of
9 mitigation measures that -- that you're ready to
10 implement if conditions warrant.

11 MS. BEYER: Thank you.

12 MR. FINLEY: Sure.

13 MR. WORCESTER: Leo.

14 MR. TRUDEL: Just one more. I want to say
15 everybody -- every commissioner has had a farm here,
16 so -- or farmed at some point. And where I'm going
17 with this is we've all used lime, probably purchased
18 it.

19 MR. FINLEY: Yeah.

20 MR. TRUDEL: And it's heavy and -- and my
21 question is, I'm assuming that you have not included
22 the amount of lime that would be needed in order to
23 continue with the processing if you were to go down
24 that road? How much lime are you talking about and
25 how many truckloads are you looking at on a

1 consistent basis?

2 And I -- and I realize that it's going to vary
3 based upon --

4 MR. FINLEY: Well, it just --

5 MR. TRUDEL: -- parameter --

6 MR. FINLEY: And if I could, sorry, ask you a
7 question back. I realize that doesn't happen, but
8 just for clarification.

9 Are you talking about lime that could be used as
10 an amendment as part of an ARD metal leaching plan or
11 for the operation side?

12 MR. TRUDEL: I guess both, but -- but I was -- I
13 was thinking more in terms of the ARD.

14 MR. FINLEY: Yeah.

15 MR. TRUDEL: But, I guess, both because if --
16 it's additional trucking, right?

17 MR. FINLEY: It is, sure. Yeah, well, let me --
18 let me start and then I'll hand it off to -- to Ron.
19 He -- he has thoughts on this. And it's important
20 that he speak to it, actually, because I can speak to
21 it from the standpoint that this goes into the
22 characterization program and something that has to be
23 known beforehand, right, because you can't just find
24 yourself all of a sudden going, Boy, we need lime,
25 but you haven't set up the infrastructure and

1 contracts, et cetera, to eat again it, right? So
2 that's where the characterization program comes in.

3 And through that they'll develop a -- or we will
4 develop an understanding of how much potential there
5 is for there to be a need for lime. At which point
6 then you put pencil to paper and, basically, do the
7 hand calculation to -- to decide. So I can't answer
8 you specifically.

9 MR. TRUDEL: Well -- and you can -- you make all
10 kinds of projections. It seems to me like this is a
11 worthy projection, even if it's only an industry
12 standard.

13 MR. FINLEY: Right.

14 MR. OUELLETTE: Of course, so -- so lime, you
15 know, treatment of the wall rocks is sort of one of
16 those components that Dr. Finley described as part of
17 an overall toolbox along with the sour milk and, you
18 know, that sort of stuff.

19 But in terms -- in terms of the operation, you
20 know, we de describe a portion of our backfill as
21 cemented backfill and, obviously -- sort of like
22 cement is a neutralizing agent as well, which would
23 be, you know, another part of that toolbox, not
24 specifically described as the -- you know, the ARD
25 management isn't specifically described as the

1 purpose for cemented rockfill, but it is a good
2 biprodukt of cemented rockfill.

3 And in the case of our operation, that is
4 described as roughly 50 percent of the backfill
5 that's used for, you know, the mine excavations. And
6 that is built into sort of our cost model. Yep.

7 MR. TRUDEL: Thank you.

8 MS. FITZGERALD: Can I go a little further?

9 MR. WORCESTER: Yeah, please.

10 MS. FITZGERALD: Let's talk about cement for a
11 minute. You've mentioned it on a number of occasions
12 that, you know, we'll put -- do you mean cement as in
13 I'm going to build a foundation cement?

14 MR. OUELLETTE: Yeah, it's typically Type 10
15 Portland cement.

16 MS. FITZGERALD: Okay. And so what happens, if I
17 understand you correctly, is that you, basically,
18 take the cement down there and you cement everything
19 together that's left over so that nothing happens and
20 it just sits there inertly as a lump?

21 MR. OUELLETTE: Yeah. And so I mentioned the --
22 the neutralizing potential by the cement is sort of a
23 biprodukt of the original plan for using it. And the
24 way that we apply the cement is -- I mentioned the
25 stopes or the mining blocks, they happen in sequence

1 to one another. And in order to excavate adjacent to
2 one of the, call it, primary mining blocks, you
3 consolidate it. And to do that you use cement.

4 And, essentially, that's what we're doing is
5 we're creating a concrete block. And by doing that
6 now you can mine adjacent to it and not impact, sort
7 of, the backfill that was there. Because otherwise,
8 obviously, the backfill would just run into the stope
9 that you're trying to -- to mine out.

10 So it's a -- it's a mechanical, you know,
11 structural management technique. Yeah.

12 MS. FITZGERALD: All right. Thank you.

13 MR. OUELLETTE: You're welcome.

14 MS. BEYER: Can we have --

15 MR. WORCESTER: You're up.

16 MR. BLOOM: Can we have our ten minutes to
17 discuss what -- what we want to ask?

18 MR. WORCESTER: You need ten minutes to discuss
19 what you want to ask? Yes.

20 MR. BLOOM: Yes.

21 MR. WORCESTER: Take a break, people.

22 (Whereupon a recess was held at 10:53 a.m., and
23 the hearing was resumed at 11:03 a.m. this date.)

24 MR. BLOOM: So we'll split the questioning,
25 because there are multiple witnesses, between me --

1 who -- the witnesses that I sort of handled and Peter
2 for the witnesses that he had prepared to handle.

3 MR. WORCESTER: That's fine.

4 MR. BLOOM: Thank you.

5 RE-CROSS-EXAMINATION OF: RON FINLEY

6 BY MR. BLOOM:

7 Q So, Mr. Finley, are you aware that since that -- that
8 in 2021 -- in February of 2021 the LUPC staff asked
9 Wolfden to provide an example of comparable mines
10 that could accomplish what -- what Wolfden is -- is
11 proposing to accomplish here?

12 A Sorry, is that -- that was a question?

13 Q Yes.

14 A Am I aware of that?

15 Q Yes.

16 A No.

17 Q Okay. And in -- in 2020 were you aware that -- that
18 the Maine Geological Survey sent a letter requesting
19 examples of mines that were comparable that could
20 accomplish that Wolfden is proposing to accomplish
21 today?

22 A No.

23 Q Okay. And so, you know, you've provided some
24 examples today, which -- but those examples were not
25 in -- listed in the application materials, correct?

1 A Correct.

2 Q And not in your prefiled testimony, correct?

3 A Correct.

4 Q And so, you know, we may have more we have to say, we
5 can't, you know, research these mines in -- in ten
6 minutes. I just have a quick question about -- about
7 Fort Knox you mentioned.

8 That's in Alaska?

9 A It is.

10 Q And -- and that's a gold mine, correct?

11 A Yes.

12 Q And -- and that gold mine, according to the U.S.
13 Geological Survey, has low sulfide content -- the
14 deposit, correct?

15 A I don't know the exact.

16 Q Okay. So in my ten minutes I -- I'll say that the
17 U.S. Geological Survey website for that says low --
18 low sulfide content.

19 Low sulfide content -- and sulfide is typically
20 what is the -- produces acid -- or what could produce
21 acid mine drainage, correct?

22 A Yes. And I -- and I think it's important to
23 distinguish when we talk high sulfide, low sulfide,
24 that's specific to the ore. That is not talking
25 about the sulfide halo or alteration halo that

1 surrounds the deposit.

2 So in -- whether you're in Fort Knox or Pickett,
3 the ore is what's going to be extracted and removed.
4 It's -- the acid rock drainage probability is as much
5 associated with what the sulfide alteration halo
6 looks like.

7 So I can tell you right now that in many kinds of
8 hard rocks a sulfide content of one weight percent,
9 which I would consider a relatively small number,
10 could actually cause acid rock drainage. So, you
11 know, whether the ore deposit itself is high sulfide
12 or low sulfide to me is -- it is important in the
13 overall story, but it's the sulfide alteration halo
14 around the orebody that is equally important.

15 Q And -- and that's something you said needs further
16 study, correct?

17 A Correct.

18 Q Now, when -- just speaking quickly about Louvicourt,
19 that has -- that has been closed since 2005, correct?

20 A Yes.

21 Q And -- and it was your testimony that a lot has
22 changed since 2005 and you're actually relying on a
23 lot of new technologies or -- or techniques since
24 2005, correct?

25 A Yes.

1 MR. BLOOM: Okay. I'm going to hand it over to
2 counsel to ask questions.

3 MS. BROWNE: Could I just clarify that
4 Dr. Finley's testimony of those two mines were just
5 in response, I think, to Commissioner Hilton's
6 question about are there mines that are successful.
7 We're not saying that those mines are, you know,
8 doing exactly what Pickett would do.

9 RECROSS-EXAMINATION OF: RON LITTLE

10 BY MR. BRANN:

11 Q I'm going to -- Mr. Little, and let me just start --
12 to follow up on Commissioner Trudel's questions.

13 The -- there are audited financial statements and
14 then you have unaudited financial statements,
15 correct?

16 A We -- every year our statements are audited on an
17 annual basis. And some quarters could be reviewed
18 for other companies, but as a small company we don't
19 review the quarters.

20 Q And you submit on the -- for the Canadian Securities
21 folks you submit -- you've submitted documents which
22 are quarterlies that are unaudited, correct?

23 A Correct. Yeah.

24 Q And you've also submitted statements having to do
25 specifically with this project, right?

1 A Yeah, every quarter we --

2 Q Okay.

3 A -- talk about our projects.

4 Q It's okay. And then you also have what's called
5 the -- the management discussion of that and
6 that's -- all of those are submitted to the Canadian
7 Securities authorities and -- and discussing what's
8 going on with -- with regard to the company, correct?

9 A Those -- those are filed on SEDAR.

10 Q Correct.

11 A That's not necessarily the securities commission, but
12 they're filed like every other public company.

13 Q It would be the equivalent on filing on EDGAR in the
14 United States for -- under -- under the SCC?

15 A Like a -- a Q-10.

16 Q Let me just suggest -- and we'll -- to -- that one of
17 the things that we can supplement the record with
18 were some of those unaudited statements, statements
19 about the project, all of which were just filed with
20 that just to --

21 A Yeah --

22 Q -- to put this aside?

23 A -- I'd also qualify that our -- there's no difference
24 from what we say in an unaudited quarter versus the
25 annual.

1 Q Oh, absolutely.

2 A Yeah.

3 Q Oh, I understand. But further information that would
4 be helpful to the LUPC as they make decisions under
5 their criteria, one of which has to do with the
6 financial capability of the -- of the company?

7 A Yeah. I mean, the statements clearly show what our
8 balance sheet is --

9 Q Understood. I --

10 A -- and where we have spent our money --

11 Q I'm going to cut you off because I have limited
12 time --

13 A Sure.

14 Q -- if you don't remember.

15 A No problem.

16 Q You said there's no -- your likely takeover
17 possibility or takeover premium would occur once you
18 can get yourself through -- through the permitting
19 process.

20 And -- and at that point one of the folks who
21 might be able to take you over might be one of these
22 large mining companies, correct?

23 A A larger company who's interested in the project.

24 Q And one of your strategic partners who you described
25 as a larger company was -- is Kinross, correct?

1 A It is.

2 Q And so -- and so Kinross is -- and so -- and one of
3 the things would be whether or not they have the same
4 values or the same promises that Wolfden has made
5 to -- in this -- in this application, correct?

6 A Yeah. My -- my simple thought on Kinross is they are
7 the same or -- as we are the same, kind of --

8 Q And when you say it's the same --

9 A -- commitment.

10 Q -- so that would -- the Commission could take into
11 consideration that they had, according to prefiled
12 exhibits, over 3,000 violations of their mine in the
13 state of Washington, correct?

14 A This -- you're referring to the Buckhorn Mine?

15 Q Yeah. That is part of the history, right?

16 A This is their own issue, not our issue.

17 Q Absolutely.

18 A And the 3,000 plus violations are a day -- my
19 understanding is for every day that --

20 Q It's not --

21 A -- something --

22 Q -- whether or not --

23 A -- has gone by that --

24 (The reporter interrupts.)

25 BY MR. BRANN:

1 Q And so one of the things that -- they could also take
2 into account -- which we have in -- Hearing
3 Exhibit No. 35 -- is that there were a \$45,000,000
4 payment on a superfund site on a mine that they did
5 in Colorado; are you aware of that?

6 A No.

7 Q Okay. Are you aware of -- in Hearing Exhibit No. 34
8 that they ended up paying \$950,000 in civil penalties
9 for violations of the Foreign Corrupt Practices Act
10 for their dealings with mining in Africa; are you
11 aware of that?

12 A No, but it's not a given that they're actually going
13 to take us over. So what does their record have to
14 do with us?

15 MS. BROWNE: Could I just clarify? Are those
16 exhibits -- have they been -- are they in the record
17 or is this the first --

18 MR. BRANN: I just identified them for it to be
19 put into the record.

20 MS. BROWNE: Well -- okay. In all fairness, I
21 think you need to provide the exhibit to the witness
22 and let the witness just comment on the exhibit.

23 MR. BRANN: He said he wasn't familiar with it.

24 BY MR. BRANN:

25 Q So in -- in terms of -- you talked a little bit about

1 what a good orebody this is. You talked -- and one
2 of the -- but you do recognize that under the -- the
3 requirements for a PEA under the Canadian Securities
4 laws that by definition inferred -- all of the
5 inferred re -- all mineral that is listed as inferred
6 is deemed to be too speculative to be considered as
7 an economic resource, correct?

8 A You're -- you're misleading people here because that
9 is a definition within a PEA so that people don't get
10 confused between a PEA and a feasibility study.

11 So the fact that we have used "inferred," you
12 have to qualify that these don't qualify as reserves
13 in other levels. So it's a -- it's a qualifying
14 statement that's in every PEA.

15 Q And the qualifying statement appears in the PEA for
16 this particular project on Page 517?

17 A I don't know what page it's on, but it's -- again,
18 it's -- it's in every PEA.

19 Q And lastly --

20 MR. WORCESTER: Excuse me. Is 517 on the record?

21 MR. BRANN: Yes, it's part of the application.

22 MR. WORCESTER: Okay.

23 MR. BRANN: Yep.

24 MR. WORCESTER: And your time is getting short.

25 BY MR. BRANN:

1 Q I -- I totally recognize that. And with regard
2 lastly to the jobs.

3 There's no guarantee -- there's no written
4 guarantee that Wolfden or somebody else would
5 actually provide any of these jobs, correct?

6 A I disagree. If this mine gets built, there will be
7 jobs. You can't build and run a mine without the set
8 jobs that we have. And I'd say it's a pretty good
9 estimate for the size that we've predicted plus or
10 minus 15 percent.

11 Q Although the PEA says 40 percent?

12 A Sure.

13 MR. BLOOM: I'm going to just hand those exhibits
14 to the --

15 BY MR. BRANN:

16 Q As the time has -- is expired --

17 MR. BLOOM: -- the witness in case he wants to --

18 BY MR. BRANN:

19 Q -- the -- but you do recognize that in 2020 in one
20 of -- one of these statements that went to the -- the
21 Canadian folks that it was -- in hearing Exhibit 14
22 that they said it was a total of 60 jobs that would
23 come out of this project?

24 MS. BROWNE: What's hearing Exhibit 14?

25 MR. BRANN: It's a -- that is the --

1 A I think I --

2 MR. BRANN: -- it's a management discussion of
3 the results.

4 A Yeah, I think he know what you're getting at. You're
5 talking to the first application.

6 BY MR. BRANN:

7 Q Okay.

8 A And the 60 jobs was not an error, by the way. Thank
9 you for the question, it's great to clarify.

10 MR. WORCESTER: Let's not -- let's not add any
11 more exhibits here.

12 A And so back to the question. Counsel is alluding to
13 our first PEA where 60 jobs were mentioned and we did
14 have to clarify that with -- with questions from LUPC
15 staff.

16 That was one shift only, it wasn't including a
17 cross shift which needed to be doubled. And I think
18 in the document -- or in our correspondence we
19 qualified that. But you might as well stick to the
20 current application is where I think we should be.

21 BY MR. BRANN:

22 Q You would agree with me that if you go from the
23 original exhibit -- hearing Exhibit 14 in which
24 you're discussing about this mine, it was a
25 prediction of the 60 jobs, it goes to 100 and it goes

1 to --

2 A No --

3 Q -- 233 today?

4 A No, it was mis -- you're misinterpreting the 60 --

5 Q Okay.

6 A -- as it did not include the second shift. We
7 described it as one shift and people somehow have
8 misinterpreted the second shift.

9 MR. BRANN: We'll, obviously, defer -- leave it
10 to the LUPC to sort out who's reading the document
11 right.

12 MR. LITTLE: Thank you very much for your
13 questions.

14 MR. WORCESTER: Thank you, people. You people
15 are excused.

16 MR. LITTLE: I guess on that note I'd like to
17 lighten it up and thank all of you for having us and
18 all of your questions. We really have kind of been
19 looking forward to this for five years to tell you
20 about the project, tell you about what we want to do.

21 And, you know, Tim and Stacie and the staff have
22 been terrific to work with. And, of course, we would
23 have loved to have you all up to the property to show
24 you the property because I think that would help to
25 see the local area and the woods. And I would

1 encourage you to go up there at your leisure, the
2 door is always open, there's no gate.

3 So thank you to the staff, thank you to the -- to
4 the AV department for putting this together and even
5 thanks to trying to be civil with the rest of the
6 opposition and we appreciate the -- the opportunity.
7 Thank you.

8 MR. WORCESTER: Thank you.

9 MR. ELWELL: Well, I hate to end on a more boring
10 procedural note, but, MS. BROWNE, did you intend to
11 object to any of those exhibits that were mentioned?
12 I think we've largely been operating off an
13 admitted-it-not-objected-to framework.

14 MS. BROWNE: I guess my -- this leads to what can
15 be submitted after today. If there's an opportunity
16 for us just to respond to these exhibits as part of
17 the post-hearing submissions, then I don't object.

18 If there's -- I mean, my understanding is the
19 record will be left open and the parties are allowed
20 to provide information responsive just to the issues
21 that came up in the hearing or the public comment
22 session. And if I'm accurate in that assumption,
23 then I'm okay with these in the record.

24 MR. ELWELL: Well, the parties provided a
25 timeline for briefing. I guess I don't know that we

1 directly addressed whether or not they could also
2 submit additional materials in the time when it's
3 open for -- for public comment.

4 MR. WORCESTER: I -- that wasn't my
5 understanding. My understanding was if you haven't
6 submitted it by now, it's over.

7 MS. BROWNE: Then -- then I object to these
8 exhibits.

9 MR. BLOOM: Well, if -- if Mr. Little wants to
10 take a look at them and respond -- you know, there
11 were questions based on them given the short time
12 period that we had. If he wants to just take a look
13 at them now and then he can respond if -- if he has
14 anything.

15 MR. WORCESTER: Well, if -- if MS. BROWNE has
16 objected, I think that's suffice.

17 MR. ELWELL: Yeah, we haven't had much of a
18 chance to review these exhibits. I think maybe what
19 would make the most sense is we could address that
20 objection in a procedure order after we've had a
21 chance to look at them more fully.

22 MR. WORCESTER: Okay. That sounds good to me.

23 MR. MAHONEY: If I could -- if I could just
24 clarify. An objection has to be sustained. And so
25 we'd want an opportunity to respond to the objection.

1 So what the -- if the basis of the objection is it's
2 irrelevant or --

3 MR. WORCESTER: I -- I think what happened here
4 was I went beyond where I should have gone letting
5 one side, which was on the record, and then letting
6 you folks back in because they agreed to it.

7 So at that point I think we thought -- I thought
8 anyway we were dealing with what was already on the
9 record. And all of a sudden we had several more
10 documents that were mentioned, but not in the context
11 of, I'd like to submit this document and ask
12 questions about it.

13 MR. MAHONEY: I understand that and -- chairman.
14 But part of this was in the nature of
15 cross-examination. You don't know what you're going
16 to use until you hear the direct testimony of the
17 witnesses. So most of the material that we used was
18 in the record. There were some things that were used
19 as part of the cross-examination, which came from
20 public records.

21 And if we wanted to, we could go through a full
22 evidentiary process of, here's the basis for it,
23 here's why it's relevant, and then the objection
24 could be it's irrelevant or it's -- or some other
25 basis for that. But we haven't done that.

1 And I think as Caleb said we were working under
2 the understanding that, you know, we provided
3 materials ahead of time last week that we would
4 both -- we were planning on using, especially if they
5 were new materials, we identified them, but we
6 weren't sure if we were going to use all of them so
7 we didn't enter all of them into evidence at the
8 time.

9 So I think that's where if there are documents
10 now that Wolfden or Haynes objects to --

11 MR. BEAUPAIN: If I could see them, it would help
12 a lot.

13 MR. MAHONEY: -- understood -- object to we could
14 respond to the objections and then you could make a
15 ruling as to whether or not they'd go into the -- the
16 record or not.

17 MR. WORCESTER: Do you want to deal with this?

18 MR. ELWELL: Okay. Here's what I would --

19 MR. MAHONEY: And just --

20 MR. ELWELL: -- propose, I guess, is we'll give a
21 limited period of time for both parties to state the
22 basis for their objection and then we'll issue a
23 procedural order and that will determine the -- the
24 exhibits.

25 And if you also wouldn't mind providing a -- a

1 list of the exhibits that were introduced during this
2 cross-section that were a subject of the objection.
3 I'm not sure I followed all of them.

4 MR. MAHONEY: We have that and -- and we -- we
5 prepared something like that. And -- and we can add
6 the few that came in just now. And appreciate that.

7 And I also appreciate, Chairman, your ability to
8 overrule yourself if you'd -- if you'd like.

9 MS. BROWNE: So we -- we object to this on
10 multiple grounds. Throughout this hearing
11 Intervenor 2 has flashed up exhibits, hasn't asked
12 the witness questions or allowed the witnesses an
13 opportunity to discuss the exhibit or put it into
14 context.

15 So -- and -- and to do the same thing on, you
16 know, recross on redirect is fundamentally unfair.
17 And these are not new issues. If they wanted to
18 question Mr. Little about Kinross, they had ample
19 opportunity to do so during the hearing.

20 So I think it both goes beyond the scope of the
21 limited redirect and is unfair because, consistent
22 with a number of their exhibits that they've
23 introduced, it's just a -- you know, here's an
24 exhibit and then move on and there's no opportunity
25 for meaningful discussion of it.

1 MR. ELWELL: Well, I think you -- you'll be able
2 to make that objection -- we provided an opportunity
3 for the parties to submit in writing their objection
4 to those and then we'll rule on them following the
5 hearing rather than all looking at them right now and
6 coming to that conclusion. That would be my
7 proposal.

8 MR. MAHONEY: It's a relatively small universe of
9 documents and I think we could do that in short
10 order.

11 MR. ELWELL: Are you indicating that you'd like
12 to object to additional ones that were introduced in
13 earlier session or is it still limited to the ones --

14 MS. BROWNE: I was limiting it to this. I
15 candidly, in the spirit of just trying to be
16 cooperative, I have haven't objected every single
17 time they've done this, but I do find it problematic
18 and it's particularly problematic to do it on recross
19 on redirect at the end of the hearing.

20 MR. ELWELL: Let's say five days you can submit
21 an offer of proof of why they are -- should be
22 admitted and you can provide your objections and the
23 basis within five days.

24 MR. MAHONEY: Thank you.

25 MR. WORCESTER: Thank you, folks. I wish to

1 remind everyone that the record will remain open with
2 written public comments until Thursday, November
3 the 5th, 2023 and for an additional week until
4 Thursday, November 9, 2023 for rebuttal testimony in
5 response to the written public comments.

6 Except for post-hearing briefs for the parties
7 and including this five-day submission, which are due
8 on November 21, 2023, no additional evidence or
9 testimony will be allowed into the record after
10 November 9.

11 I hereby close the technical session of the
12 public hearing on the Land Use Planning Commission's
13 ZP 779A. This hearing will be continued with a
14 public comment section at 6:30 p.m. on October 23 at
15 the Cross Insurance Center in Bangor.

16 Thank you all. It's been an interesting two and
17 a half days and two evenings.

18 MR. BRANN: One clarification, though.

19 MR. WORCESTER: Yes.

20 MR. BRANN: There was some back-and-forth with
21 Commissioner Trudel and MS. BROWNE which we concurred
22 on having to do with some other corporate documents
23 that might be submitted. And I was under the
24 impression that, first of all, we all -- we both
25 agreed and I think the commissioner asked for it,

1 which had to do with -- these are publicly filed
2 financials or other documents that are from the --
3 the whatchamacallit, the -- the SEDAR -- they call it
4 SEDAR in Canada.

5 And so -- and I -- I thought -- so that would be
6 a -- other than that, the record would be closed was
7 my understanding, that that was what the -- was
8 actually agreed upon in response to the
9 commissioner's question.

10 It's relatively small universe. I -- I can think
11 of about five or six of those.

12 MS. BROWNE: I have a hard time hearing you.

13 MR. BRANN: Oh, I'm sorry. Let me try it again.
14 Yeah, I need to get closer.

15 Commissioner Trudel asked about getting some
16 other additional corporate docs, some of which are
17 not the -- the not audited -- and which Mr. Little
18 alluded -- described for us.

19 And there are also some additional court --
20 documents filed with the Canadian security in their
21 thing, SEDAR, which are about the project. And I
22 thought that MS. BROWNE asked that she could -- could
23 she submit a -- he wanted them, we would like --
24 we're in favor of that. So it would be a few more
25 things.

1 MS. BROWNE: Yeah. So I guess we were going to
2 just provide the most recent annual audited
3 statement. If you want more, we'll provide more.

4 And then the second document was the spreadsheet
5 in support of the economic analysis. We would also
6 provide that. And we could provide both those
7 documents certainly within a week.

8 MR. BRANN: The -- I will just point out the
9 audited financial for 2022 is already in the record,
10 that was previously submitted, as is -- was the
11 corporate's -- the filing for first quarter, which is
12 the only one available as of -- at least as of
13 yesterday for the company.

14 So there's a -- but there are -- the management
15 statements about the financials as well as some of
16 the other specific documents subject to the Canadian
17 Securities was filed about this project, which are --
18 that's --

19 MR. WORCESTER: I -- I'm going to restrict it to
20 the two documents.

21 MS. BEYER: That was my recollection.

22 (Concluded this hearing at 11:29 a.m. this date.)
23
24
25

CERTIFICATE

I, Angella D. Clukey, a Notary Public in and for the State of Maine, hereby certify that this hearing was stenographically reported by me to the best of my ability and later reduced to typewritten form with the aid of Computer-Aided Transcription, and the foregoing is a full and true record of the hearing to the best of my ability.

I further certify that I am a disinterested person in the event or outcome of the above-named cause of action.

IN WITNESS WHEREOF, I subscribe my hand and affix my seal this 27th day of October 2023.

ANGELLA D. CLUKEY, NOTARY PUBLIC
Court Reporter

My commission expires March 17, 2024

\$	563:3, 563:10, 572:13, 572:14, 579:13, 583:14, 583:16, 602:10 1500 [1] - 523:7 16 [1] - 537:11 16,000 [1] - 559:3 17 [2] - 562:11, 614:22 17,000 [1] - 563:11 18 [3] - 506:12, 507:4, 509:4 1900 [1] - 533:14 1950s [1] - 528:12 199 [2] - 506:18, 509:3 1994 [1] - 560:5 1996 [2] - 538:16, 538:19	506:25 21 [1] - 611:8 22 [1] - 507:4 2236 [1] - 506:24 23 [1] - 611:14 233 [3] - 570:24, 572:2, 604:3 25 [5] - 527:21, 583:5, 583:6, 583:8, 583:20 26 [1] - 538:11 27 [1] - 538:9 27th [1] - 614:14	556 [1] - 508:9 558 [1] - 508:7 561 [1] - 508:10 564 [1] - 508:11 593 [1] - 508:7 596 [1] - 508:10 5th [1] - 611:3	abide [1] - 539:9 ability [5] - 531:18, 532:14, 609:7, 614:5, 614:8 able [8] - 523:20, 532:24, 532:25, 539:23, 561:7, 582:17, 598:21, 610:1 abloom@ earthjustice.org [1] - 507:25 above-named [1] - 614:11 absent [1] - 523:19 absolutely [5] - 545:15, 550:14, 574:4, 598:1, 599:17 absorb [3] - 532:24, 532:25, 533:7 absorbs [1] - 574:7 abundance [1] - 528:7 accept [1] - 575:3 access [5] - 522:1, 522:4, 522:9, 543:24, 547:3 accomplish [4] - 593:10, 593:11, 593:20 according [2] - 594:12, 599:11 account [1] - 600:2 accounting [1] - 578:6 accumulated [2] - 527:6, 532:20 accumulation [1] - 526:5 accurate [1] - 605:22 acid [35] - 518:12, 524:15, 524:16, 524:18, 525:3, 526:2, 528:19, 528:24, 529:8, 529:12, 532:18, 532:21, 532:25, 533:4, 533:5, 545:11, 545:24, 546:4, 547:7, 548:17, 548:18, 549:18, 549:19, 549:24, 550:19, 560:20, 561:5, 561:6, 562:7, 565:19, 586:13, 594:20, 594:21, 595:4, 595:10 acid-based [1] - 565:19 acidic [3] - 525:16, 526:4, 532:14 acidity [2] - 518:11,
	17,000 [1] - 563:11 18 [3] - 506:12, 507:4, 509:4 1900 [1] - 533:14 1950s [1] - 528:12 199 [2] - 506:18, 509:3 1994 [1] - 560:5 1996 [2] - 538:16, 538:19		6	
'70s [1] - 533:24			6 [1] - 507:9 6.3 [1] - 557:1 6.5 [2] - 525:12, 525:15 6.7 [1] - 557:1 60 [5] - 602:22, 603:8, 603:13, 603:25, 604:4 6:30 [1] - 611:14 6s [1] - 532:8	
0		3		
04101-4054 [1] - 507:15 04333-0022 [1] - 507:5 04433 [1] - 507:10 04462-0480 [1] - 507:20	2	3 [2] - 506:14 3,000 [2] - 599:12, 599:18 30 [8] - 510:20, 515:24, 533:16, 533:17, 542:19, 583:13, 583:14, 583:16 300 [2] - 583:17, 583:22 32 [1] - 513:9 34 [2] - 538:10, 600:7 35 [2] - 568:13, 600:3		7
1	2 [3] - 540:4, 542:23, 609:11 2's [4] - 508:3, 510:13, 540:1, 557:3 2,000 [2] - 522:10, 522:14 2,500 [1] - 529:18 2.0 [1] - 525:14 20 [4] - 542:15, 563:10, 579:13, 579:24 20,000 [1] - 562:11 20-something [1] - 542:2 200 [17] - 512:4, 513:11, 546:14, 555:12, 555:13, 557:9, 559:7, 563:18, 568:17, 568:21, 573:15, 574:3, 576:5, 576:10, 576:14, 583:24, 584:9 2000 [2] - 521:3 2005 [4] - 560:6, 595:19, 595:22, 595:24 2019 [1] - 514:7 2020 [4] - 540:11, 540:14, 593:17, 602:19 2021 [2] - 593:8 2022 [1] - 613:9 2023 [6] - 506:12, 509:4, 611:3, 611:4, 611:8, 614:14 2024 [1] - 614:22 207-394-3900 [1] -			7 [1] - 557:1 75 [1] - 523:1 779A [3] - 506:6, 509:7, 611:13
1 [2] - 519:24, 537:14 1's [3] - 508:5, 530:9, 536:7 1,000 [2] - 522:14, 523:7 1,200 [1] - 538:20 1,600 [2] - 523:8 1.42 [1] - 520:2 10 [8] - 519:15, 519:25, 520:6, 562:21, 572:10, 579:25, 591:14 10.4 [1] - 583:6 100 [4] - 552:25, 559:7, 564:5, 603:25 100,000 [1] - 523:1 10005 [1] - 507:24 10:53 [1] - 592:22 11 [5] - 537:1, 541:19, 542:2, 556:21, 572:10 11:03 [1] - 592:23 11:29 [1] - 613:22 12 [2] - 572:11, 576:1 120 [2] - 554:9, 555:14 14 [7] - 572:13, 572:14, 572:16, 572:17, 602:21, 602:24, 603:23 14-year [1] - 573:1 15 [9] - 542:17,				8
		4		8 [2] - 562:10, 562:21 8.2 [1] - 525:12 80 [1] - 568:21 880 [1] - 538:21 8:30 [1] - 509:4
			4 [3] - 520:3, 537:15, 542:17 4,900 [1] - 512:3 4.5 [1] - 525:14 40 [2] - 579:22, 602:11 45 [1] - 515:14 48 [1] - 507:24 480 [1] - 507:19	
			5	9
		5.5 [2] - 523:21, 531:11 5.95 [1] - 529:2 50 [7] - 548:1, 548:2, 563:22, 564:6, 564:11, 591:4 510 [1] - 508:3 517 [2] - 601:16, 601:20 530 [1] - 508:4 536 [1] - 508:5 540 [1] - 508:6 543 [1] - 508:7 551 [1] - 508:8		9 [3] - 525:15, 611:4, 611:10 90,000 [1] - 512:6 95 [1] - 519:23 96 [1] - 507:19 9:14 [1] - 536:5 9:32 [1] - 536:6
				A
				a.m [6] - 509:4, 536:5, 536:6, 592:22, 592:23, 613:22 AA [5] - 516:17, 517:9, 517:12, 517:13, 517:25 AAG [1] - 507:8 Aaron [1] - 507:23

<p>532:13 acknowledge [1] - 565:7 acquire [1] - 574:3 acres [7] - 512:3, 512:6, 537:20, 583:6, 583:13, 583:15, 583:16 act [6] - 544:21, 544:22, 544:25, 546:24, 600:9 Act [3] - 513:17, 521:6, 533:25 action [1] - 614:11 activities [9] - 514:19, 514:22, 536:21, 551:24, 553:11, 553:16, 553:17, 561:9, 570:13 activity [7] - 539:1, 545:24, 548:10, 549:13, 549:19, 566:24, 572:8 acts [2] - 543:25, 545:6 actual [4] - 528:17, 556:8, 557:21, 574:17 adapt [1] - 525:24 add [10] - 539:5, 549:14, 568:8, 572:11, 572:25, 576:25, 578:11, 582:14, 603:10, 609:5 added [1] - 542:24 adding [2] - 586:6, 587:22 addition [1] - 512:5 additional [13] - 542:18, 562:4, 563:10, 564:18, 585:24, 588:3, 589:16, 606:2, 610:12, 611:3, 611:8, 612:16, 612:19 additionally [1] - 513:13 address [6] - 511:11, 576:2, 576:3, 576:14, 578:16, 606:19 addressed [1] - 606:1 adds [1] - 577:11 adequate [1] - 519:15 adjacent [3] - 528:10, 592:1, 592:6 administers [1] - 576:7 admitted [2] - 605:13, 610:22</p>	<p>admitted-it-not-objeced-to [1] - 605:13 adult [4] - 522:24, 523:2, 529:3, 538:10 advance [2] - 511:25, 548:12 advanced [6] - 546:7, 546:11, 547:9, 547:17, 547:21, 550:6 advancement [1] - 543:22 advancing [2] - 511:25, 544:4 advantage [1] - 550:10 advisories [3] - 515:10, 527:3, 527:11 affair [1] - 573:18 affect [3] - 526:2, 532:12 affected [2] - 532:1, 534:20 affecting [1] - 511:9 affects [1] - 525:17 affirm [1] - 510:8 affix [1] - 614:13 afforded [1] - 513:16 Africa [1] - 600:10 afterwards [1] - 543:3 age [2] - 527:13, 529:7 agencies [2] - 511:2, 522:17 agency [3] - 576:13, 576:16, 576:17 agent [1] - 590:22 ago [1] - 533:24 agree [6] - 530:1, 530:11, 550:1, 565:13, 603:22 agreed [3] - 607:6, 611:25, 612:8 ahead [8] - 535:25, 536:3, 542:16, 554:22, 559:22, 566:7, 585:8, 608:3 aid [1] - 614:6 Aided [1] - 614:7 air [1] - 544:8 Alaska [2] - 559:1, 594:8 alewives [2] - 514:21, 531:11 algal [1] - 516:3 allow [3] - 509:8, 524:9, 544:18 allowed [6] - 517:15, 539:12, 584:18,</p>	<p>605:19, 609:12, 611:9 allowing [1] - 577:14 allows [2] - 549:13, 579:12 alluding [1] - 612:18 alluding [2] - 580:15, 603:12 almost [2] - 522:16, 585:19 alteration [3] - 594:25, 595:5, 595:13 alterations [1] - 547:10 ALTIUS [2] - 579:21, 579:25 aluminum [1] - 526:5 AMD [2] - 525:13, 529:18 amend [1] - 549:14 amended [1] - 586:1 amendment [1] - 589:10 amendments [1] - 586:6 American [1] - 523:16 amount [11] - 524:5, 551:8, 563:15, 566:23, 567:4, 568:6, 568:7, 587:9, 587:20, 587:24, 588:22 amounts [1] - 529:10 ample [1] - 609:18 analyses [1] - 562:4 analysis [3] - 557:7, 557:17, 613:5 analyze [1] - 566:11 Angella [3] - 506:17, 509:1, 614:3 ANGELLA [1] - 614:18 annual [4] - 578:18, 596:17, 597:25, 613:2 answer [4] - 532:9, 565:4, 572:23, 590:7 anti [1] - 516:12 anti-backsliding [1] - 516:12 anticipate [4] - 547:5, 549:20, 569:21, 573:16 anyway [3] - 532:10, 536:16, 607:8 APPEARANCES [1] - 507:1 applicant's [2] - 529:21, 542:12 application [7] - 528:11, 528:15, 593:25, 599:5,</p>	<p>601:21, 603:5, 603:20 Application [2] - 506:10, 529:14 apply [1] - 591:24 appreciate [5] - 529:23, 530:4, 605:6, 609:6, 609:7 approach [1] - 563:14 appropriate [2] - 567:3, 568:6 approval [1] - 580:6 approved [2] - 538:5, 571:22 aquatic [3] - 511:5, 523:25 Arctic [1] - 527:20 ARD [7] - 552:3, 568:12, 568:14, 568:20, 589:10, 589:13, 590:24 area [33] - 511:22, 516:21, 519:9, 519:14, 519:18, 519:19, 519:20, 519:23, 520:1, 520:3, 520:5, 522:7, 532:4, 532:6, 532:24, 533:3, 533:20, 536:19, 538:24, 539:1, 539:3, 539:6, 539:17, 539:18, 539:24, 540:19, 542:1, 549:6, 556:6, 556:8, 569:14, 572:5, 604:25 areas [6] - 512:24, 521:6, 529:16, 532:7, 552:3, 583:23 argument [1] - 538:22 Aroostook [1] - 509:17 aside [1] - 597:22 aspects [1] - 536:20 assessment [1] - 562:20 asset [3] - 570:15, 579:9, 579:17 assistant [1] - 509:22 associated [5] - 514:17, 514:22, 544:24, 546:20, 595:5 ASSOCIATES [1] - 506:24 assume [1] - 571:18 assuming [5] - 538:5, 546:12, 570:9, 578:2, 588:21 assumption [2] -</p>	<p>580:17, 605:22 assumptions [1] - 580:23 assurance [1] - 580:7 Atlantic [22] - 512:25, 515:17, 521:4, 521:15, 521:17, 522:11, 522:20, 522:22, 522:24, 523:2, 523:6, 523:15, 524:2, 524:5, 524:8, 525:11, 525:17, 525:20, 526:7, 528:19, 529:14, 531:7 atmospheric [1] - 544:9 Attorney [2] - 507:7, 507:8 attorney [1] - 509:22 attraction [1] - 554:16 attractive [3] - 577:16, 579:17 attractiveness [1] - 579:4 attribute [1] - 533:19 AUDIENCE [1] - 510:10 audited [8] - 578:3, 578:18, 581:20, 596:13, 596:16, 612:17, 613:2, 613:9 auditors [1] - 578:24 Augusta [2] - 507:5, 507:10 authorities [1] - 597:7 AV [1] - 605:4 available [4] - 524:24, 547:6, 550:13, 613:12 average [2] - 557:1, 580:19 avoid [1] - 526:7 aware [7] - 558:20, 593:7, 593:14, 593:17, 600:5, 600:7, 600:11</p> <hr/> <p style="text-align: center;">B</p> <hr/> <p>back-and-forth [1] - 611:20 backer [1] - 579:22 backfill [9] - 548:13, 549:10, 549:14, 586:5, 590:20,</p>
--	---	--	---	--

<p>590:21, 591:4, 592:7, 592:8</p> <p>backfilled [3] - 549:9, 551:9, 551:14</p> <p>backfilling [3] - 551:6, 560:6, 585:25</p> <p>background [4] - 517:20, 520:12, 520:23, 563:2</p> <p>backsliding [1] - 516:12</p> <p>backwards [1] - 572:10</p> <p>bacteria [4] - 516:2, 586:20, 586:23, 587:5</p> <p>balance [4] - 577:9, 577:22, 578:11, 598:8</p> <p>Bangor [2] - 506:24, 611:15</p> <p>bar [1] - 513:22</p> <p>barrier [1] - 544:22</p> <p>based [11] - 511:12, 516:9, 547:6, 550:12, 565:19, 572:6, 578:6, 580:17, 580:22, 589:3, 606:11</p> <p>baseline [2] - 562:24, 563:2</p> <p>basic [1] - 545:8</p> <p>basis [10] - 548:11, 563:25, 568:1, 589:1, 596:17, 607:1, 607:22, 607:25, 608:22, 610:23</p> <p>bass [1] - 523:17</p> <p>Baxter [1] - 512:13</p> <p>Bear [1] - 567:9</p> <p>BEAUPAIN [4] - 530:10, 536:9, 540:2, 608:11</p> <p>Beaupain [2] - 507:18, 507:18</p> <p>beautiful [3] - 521:2, 528:1, 539:18</p> <p>became [1] - 534:16</p> <p>become [4] - 524:24, 529:4, 572:21, 577:5</p> <p>becomes [1] - 586:25</p> <p>bee [1] - 560:1</p> <p>BEFORE [1] - 506:17</p> <p>beforehand [1] - 589:23</p> <p>beg [2] - 576:25, 581:9</p> <p>beginning [1] - 509:4</p> <p>behind [2] - 574:13, 579:14</p> <p>beliefs [1] - 515:20</p> <p>below [5] - 519:25,</p>	<p>520:6, 525:14, 542:19, 553:1</p> <p>belt [1] - 579:17</p> <p>benefit [2] - 539:24, 546:21</p> <p>benefits [1] - 577:11</p> <p>best [9] - 524:7, 530:2, 565:23, 567:9, 570:5, 586:12, 588:5, 614:5, 614:8</p> <p>Betsy [2] - 509:24, 530:14</p> <p>better [9] - 518:16, 520:13, 520:21, 534:4, 534:7, 534:23, 540:12, 567:16, 587:3</p> <p>between [9] - 525:12, 525:14, 529:2, 564:13, 564:23, 570:10, 571:10, 592:25, 601:10</p> <p>BEYER [18] - 509:20, 535:23, 535:25, 559:18, 566:7, 575:22, 575:25, 582:3, 582:12, 583:14, 585:5, 585:10, 585:21, 585:23, 586:11, 588:11, 592:14, 613:21</p> <p>Beyer [1] - 509:20</p> <p>beyond [4] - 540:5, 586:5, 607:4, 609:20</p> <p>big [4] - 534:5, 534:10, 535:2, 581:5</p> <p>bigger [4] - 574:23, 577:7, 577:9, 577:10</p> <p>biggest [1] - 579:15</p> <p>bind [1] - 583:25</p> <p>Biodiversity [1] - 507:23</p> <p>biological [1] - 521:14</p> <p>biproduct [2] - 591:2, 591:23</p> <p>bit [10] - 516:15, 538:20, 540:20, 553:8, 554:8, 573:19, 574:2, 580:24, 586:4, 600:25</p> <p>black [2] - 545:20, 547:2</p> <p>block [1] - 592:5</p> <p>blocks [4] - 551:12, 551:15, 591:25, 592:2</p> <p>BLOOM [15] - 542:25, 543:6, 543:8, 584:21, 584:25,</p>	<p>585:3, 592:16, 592:20, 592:24, 593:4, 593:6, 596:1, 602:13, 602:17, 606:9</p> <p>Bloom [1] - 507:23</p> <p>Bloomer [1] - 507:18</p> <p>blooms [1] - 516:3</p> <p>blue [5] - 517:9, 517:17, 518:3, 520:10, 520:14</p> <p>bodies [5] - 539:11, 556:19, 556:24, 557:12, 573:8</p> <p>body [1] - 525:23</p> <p>bond [1] - 580:8</p> <p>book [1] - 578:9</p> <p>border [1] - 519:12</p> <p>boring [1] - 605:9</p> <p>born [2] - 525:21, 538:8</p> <p>Boston [1] - 540:25</p> <p>bottom [9] - 519:22, 522:7, 523:9, 523:18, 525:4, 525:5, 535:11, 544:12, 555:2</p> <p>bound [1] - 524:24</p> <p>Box [2] - 506:24, 507:19</p> <p>boy [1] - 589:24</p> <p>Branch [4] - 512:16, 513:1, 521:11, 524:10</p> <p>branch [12] - 513:1, 513:13, 513:14, 514:13, 517:3, 517:25, 522:22, 522:24, 524:3, 556:23</p> <p>branches [1] - 516:23</p> <p>BRANN [19] - 596:10, 599:25, 600:18, 600:23, 600:24, 601:21, 601:23, 601:25, 602:15, 602:18, 602:25, 603:2, 603:6, 603:21, 604:9, 611:18, 611:20, 612:13, 613:8</p> <p>break [8] - 535:10, 535:22, 535:24, 543:8, 562:8, 584:21, 584:24, 592:21</p> <p>brew [1] - 538:12</p> <p>brewery [2] - 538:13</p> <p>briefing [1] - 605:25</p> <p>briefs [1] - 611:6</p> <p>bring [2] - 578:1, 578:7</p> <p>broken [1] - 556:4</p> <p>Brook [1] - 529:17</p>	<p>brook [18] - 515:18, 518:8, 526:8, 526:10, 526:13, 526:14, 526:16, 526:17, 526:21, 527:10, 527:14, 527:17, 527:20, 528:20, 529:1, 529:14, 529:16</p> <p>brought [5] - 540:6, 552:8, 577:21, 578:10, 584:13</p> <p>Browne [1] - 507:13</p> <p>BROWNE [38] - 542:14, 543:13, 551:4, 555:16, 556:11, 556:16, 558:12, 558:15, 559:21, 559:25, 560:3, 561:13, 564:16, 565:15, 565:18, 566:4, 569:10, 569:12, 581:17, 582:1, 582:9, 583:13, 584:20, 584:24, 596:3, 600:15, 600:20, 602:24, 605:10, 605:14, 606:7, 606:15, 609:9, 610:14, 611:21, 612:12, 612:22, 613:1</p> <p>Brunswick [1] - 556:2</p> <p>buckets [1] - 554:13</p> <p>buckhorn [1] - 599:14</p> <p>buffering [1] - 528:21</p> <p>build [3] - 574:20, 591:13, 602:7</p> <p>building [4] - 554:9, 554:17, 554:19, 575:6</p> <p>buildings [1] - 571:13</p> <p>built [3] - 521:24, 591:6, 602:6</p> <p>bumped [1] - 583:17</p> <p>bunch [1] - 536:23</p> <p>burden [1] - 520:24</p> <p>business [3] - 539:4, 539:9, 550:9</p> <p>businesses [3] - 539:21, 540:14, 541:4</p> <p>but.. [1] - 535:7</p> <p>buy [2] - 572:20, 574:25</p> <p>buying [1] - 562:9</p> <p>BY [15] - 543:13, 551:4, 555:16, 556:16, 558:15,</p>	<p>561:13, 593:6, 596:10, 599:25, 600:24, 601:25, 602:15, 602:18, 603:6, 603:21</p> <p>bypass [2] - 521:23</p>
C				
<p>calculating [1] - 513:5</p> <p>calculation [1] - 590:7</p> <p>Caleb [3] - 507:8, 509:22, 608:1</p> <p>caleb.elwell@maine.gov [1] - 507:10</p> <p>Canada [2] - 562:16, 612:4</p> <p>Canadian [8] - 564:1, 577:4, 596:20, 597:6, 601:3, 602:21, 612:20, 613:16</p> <p>candidly [1] - 610:15</p> <p>cannot [3] - 520:17, 537:18, 545:8</p> <p>cap [2] - 578:19, 580:12</p> <p>capability [1] - 598:6</p> <p>capacity [4] - 528:21, 533:4, 546:20, 586:5</p> <p>capital [1] - 581:5</p> <p>capital-priced [1] - 581:5</p> <p>career [2] - 574:18, 586:19</p> <p>Caribou [1] - 554:7</p> <p>Carr [1] - 507:3</p> <p>carry [2] - 515:9, 527:7</p> <p>carrying [1] - 574:9</p> <p>case [8] - 513:9, 551:2, 554:9, 555:4, 557:12, 570:23, 591:3, 602:17</p> <p>catastrophic [3] - 557:4, 557:10, 558:4</p> <p>catch [2] - 526:20, 527:10</p> <p>catchment [1] - 559:9</p> <p>categories [2] - 566:11, 566:13</p> <p>caused [2] - 535:6, 543:17</p> <p>causing [1] - 533:1</p> <p>CDARS [1] - 578:20</p> <p>CDC's [1] - 527:11</p>				

<p>cement ^[10] - 590:22, 591:10, 591:12, 591:13, 591:15, 591:18, 591:22, 591:24, 592:3</p> <p>cemented ^[4] - 549:10, 590:21, 591:1, 591:2</p> <p>census ^[1] - 540:10</p> <p>Center ^[2] - 538:14, 611:15</p> <p>center ^[1] - 538:15</p> <p>Central ^[1] - 507:19</p> <p>certain ^[3] - 576:12, 576:17, 582:21</p> <p>certainly ^[6] - 551:23, 565:6, 570:11, 572:1, 578:13, 613:7</p> <p>CERTIFICATE ^[1] - 614:1</p> <p>certify ^[2] - 614:4, 614:10</p> <p>cetera ^[1] - 590:1</p> <p>chair ^[2] - 509:12, 542:15</p> <p>chairman ^[3] - 536:9, 607:13, 609:7</p> <p>Chairman ^[1] - 510:14</p> <p>chance ^[5] - 524:7, 536:16, 538:1, 606:18, 606:21</p> <p>change ^[3] - 533:1, 533:6, 533:7</p> <p>Change ^[1] - 506:10</p> <p>changed ^[2] - 583:4, 595:22</p> <p>changes ^[1] - 535:11</p> <p>channel ^[1] - 521:23</p> <p>channels ^[1] - 535:12</p> <p>Chapter ^[11] - 546:14, 557:9, 563:18, 573:15, 574:3, 576:1, 576:5, 576:10, 576:14, 583:24, 584:9</p> <p>char ^[1] - 527:20</p> <p>characteristic ^[1] - 565:8</p> <p>characteristics ^[2] - 565:11, 568:3</p> <p>characterization ^[8] - 549:12, 550:8, 562:25, 566:10, 567:6, 569:4, 589:22, 590:2</p> <p>characterize ^[6] - 541:7, 541:16,</p>	<p>548:24, 550:21, 562:6, 566:25</p> <p>Chase ^[5] - 506:9, 507:12, 509:8, 512:18, 512:19</p> <p>check ^[1] - 585:19</p> <p>chemicals ^[2] - 513:6, 535:6</p> <p>chemistry ^[2] - 532:23, 557:20</p> <p>childbearing ^[1] - 527:13</p> <p>children ^[1] - 527:14</p> <p>circumstances ^[1] - 557:19</p> <p>citizen ^[1] - 514:8</p> <p>citizens ^[2] - 514:25, 526:22</p> <p>City ^[1] - 540:25</p> <p>civil ^[2] - 600:8, 605:5</p> <p>clarification ^[6] - 561:18, 566:8, 568:9, 569:19, 589:8, 611:18</p> <p>clarify ^[11] - 553:7, 565:18, 569:21, 575:24, 576:4, 576:8, 596:3, 600:15, 603:9, 603:14, 606:24</p> <p>class ^[21] - 516:24, 516:25, 517:2, 517:7, 517:8, 517:9, 517:11, 517:12, 517:13, 517:16, 517:17, 517:21, 517:24, 518:5, 518:6, 518:15, 529:7</p> <p>Class ^[10] - 519:9, 519:11, 519:18, 519:21, 520:1, 520:2, 520:4, 520:11, 520:15</p> <p>classes ^[3] - 516:8, 516:11, 516:17</p> <p>classification ^[5] - 516:16, 516:18, 517:4, 517:13, 519:2</p> <p>classifications ^[1] - 516:13</p> <p>Clean ^[1] - 533:25</p> <p>clean ^[5] - 517:19, 525:9, 528:23, 533:4, 534:17</p> <p>cleanup ^[2] - 533:20, 534:8</p> <p>clear ^[2] - 550:12, 581:17</p> <p>cleared ^[1] - 539:15</p> <p>clearly ^[2] - 547:20, 598:7</p> <p>climatic ^[1] - 557:18</p>	<p>close ^[6] - 511:23, 524:10, 552:17, 579:24, 580:2, 611:11</p> <p>closed ^[8] - 538:17, 538:18, 538:19, 552:14, 560:6, 560:22, 595:19, 612:6</p> <p>closer ^[2] - 518:2, 612:14</p> <p>closure ^[4] - 560:11, 561:9, 571:7, 571:17</p> <p>Clukey ^[3] - 506:17, 509:1, 614:3</p> <p>CLUKEY ^[1] - 614:18</p> <p>coal ^[1] - 529:12</p> <p>coarse ^[1] - 552:2</p> <p>coats ^[1] - 525:3</p> <p>coincidentally ^[1] - 563:18</p> <p>coldwater ^[2] - 528:10, 528:14</p> <p>collect ^[2] - 511:13, 566:10</p> <p>collected ^[3] - 516:10, 546:8, 567:19</p> <p>color ^[1] - 518:3</p> <p>Colorado ^[1] - 600:5</p> <p>colors ^[3] - 517:10, 566:16, 566:17</p> <p>comanage ^[1] - 522:19</p> <p>combination ^[1] - 533:22</p> <p>comfort ^[2] - 577:12, 579:8</p> <p>comfortability ^[1] - 578:13</p> <p>comfortable ^[3] - 542:24, 562:18, 577:9</p> <p>coming ^[5] - 531:11, 535:13, 540:7, 546:8, 610:6</p> <p>comment ^[14] - 543:21, 545:14, 551:7, 551:22, 552:18, 555:19, 556:20, 558:19, 577:1, 577:18, 600:22, 605:21, 606:3, 611:14</p> <p>commentary ^[1] - 576:25</p> <p>comments ^[3] - 562:3, 611:2, 611:5</p> <p>COMMISSION ^[1] - 506:2</p> <p>commission ^[9] - 509:23, 510:15, 542:20, 563:16, 573:14, 584:19,</p>	<p>597:11, 599:10, 614:22</p> <p>Commission ^[8] - 507:2, 507:3, 508:4, 508:6, 508:11, 509:7, 509:12, 509:21</p> <p>Commission's ^[1] - 611:12</p> <p>commissioner ^[10] - 553:3, 553:15, 553:23, 581:24, 588:15, 596:5, 596:12, 611:21, 611:25, 612:15</p> <p>commissioner's ^[1] - 612:9</p> <p>commissioners ^[1] - 536:11</p> <p>commissioners' ^[1] - 558:16</p> <p>commit ^[1] - 574:4</p> <p>commitment ^[1] - 599:9</p> <p>commitments ^[1] - 574:6</p> <p>committed ^[1] - 574:5</p> <p>common ^[1] - 529:9</p> <p>commonly ^[1] - 586:9</p> <p>community ^[1] - 575:14</p> <p>companies ^[6] - 573:10, 573:12, 577:15, 582:20, 596:18, 598:22</p> <p>company ^[20] - 572:19, 574:7, 574:10, 574:15, 574:24, 575:2, 575:7, 577:4, 577:8, 578:20, 579:5, 579:14, 579:21, 596:18, 597:8, 597:12, 598:6, 598:23, 598:25, 613:13</p> <p>comparable ^[4] - 558:23, 559:10, 593:9, 593:19</p> <p>complex ^[1] - 583:3</p> <p>complicated ^[2] - 583:10, 584:12</p> <p>components ^[2] - 560:14, 590:16</p> <p>comprise ^[1] - 567:1</p> <p>comprised ^[1] - 515:13</p> <p>Computer ^[1] - 614:7</p> <p>Computer-Aided ^[1] - 614:7</p>	<p>concentrator ^[3] - 519:6, 520:19, 548:8</p> <p>concern ^[3] - 552:11, 552:18, 578:23</p> <p>concerns ^[3] - 511:10, 557:4, 576:2</p> <p>concluded ^[2] - 549:23, 613:22</p> <p>concludes ^[1] - 540:2</p> <p>conclusion ^[4] - 550:1, 550:25, 562:15, 610:6</p> <p>concrete ^[1] - 592:5</p> <p>concurring ^[1] - 611:21</p> <p>condition ^[1] - 544:14</p> <p>conditions ^[3] - 526:4, 577:21, 588:10</p> <p>conduct ^[1] - 565:21</p> <p>conducted ^[2] - 565:20, 565:21</p> <p>conduit ^[2] - 544:25, 545:6</p> <p>Confederacy ^[2] - 511:17, 511:19</p> <p>confidence ^[1] - 564:14</p> <p>confident ^[1] - 567:15</p> <p>confirm ^[4] - 553:16, 563:13, 565:10</p> <p>confirmed ^[2] - 568:5, 569:1</p> <p>confluence ^[1] - 513:22</p> <p>confused ^[2] - 561:24, 601:10</p> <p>confusing ^[1] - 575:17</p> <p>confusion ^[3] - 543:17, 553:8, 561:15</p> <p>conjunction ^[1] - 567:22</p> <p>connected ^[2] - 515:21, 554:12</p> <p>connection ^[1] - 557:8</p> <p>consecutive ^[1] - 509:10</p> <p>conservancy ^[1] - 537:12</p> <p>conservation ^[3] - 521:15, 537:10, 537:22</p> <p>conserved ^[1] - 537:20</p> <p>consider ^[2] - 574:15, 595:9</p>
---	--	--	--	--

<p>considerable [1] - 563:15</p> <p>consideration [1] - 599:11</p> <p>considered [3] - 517:14, 561:22, 601:6</p> <p>considers [2] - 514:3, 514:4</p> <p>consistent [3] - 568:19, 589:1, 609:21</p> <p>consists [1] - 511:19</p> <p>consolidate [1] - 592:3</p> <p>consolidating [1] - 561:10</p> <p>construction [6] - 553:6, 553:15, 553:17, 570:14, 570:15, 570:18</p> <p>consumed [1] - 511:4</p> <p>consumption [2] - 513:8, 513:11</p> <p>contain [4] - 521:13, 526:23, 528:7, 549:7</p> <p>contaminant [1] - 511:3</p> <p>contaminants [3] - 513:8, 515:11, 526:24</p> <p>contaminated [1] - 527:1</p> <p>contaminating [1] - 558:18</p> <p>contamination [1] - 515:15</p> <p>content [6] - 546:23, 548:1, 594:13, 594:18, 594:19, 595:8</p> <p>context [4] - 550:23, 566:15, 607:10, 609:14</p> <p>continue [7] - 539:2, 540:21, 545:3, 560:4, 573:5, 575:8, 588:23</p> <p>continued [2] - 534:4, 611:13</p> <p>continues [2] - 513:24, 571:18</p> <p>continuous [1] - 564:7</p> <p>contractors [5] - 553:4, 553:5, 553:10, 553:14, 553:18</p> <p>contracts [3] - 570:16, 571:12, 590:1</p> <p>contributed [1] - 529:13</p> <p>control [2] - 560:11, 560:20</p> <p>convert [1] - 563:8</p>	<p>conveyed [1] - 537:15</p> <p>cool [1] - 518:11</p> <p>cooperative [1] - 610:16</p> <p>copy [1] - 581:19</p> <p>core [5] - 566:2, 567:24, 567:25, 568:1, 568:19</p> <p>corner [3] - 523:12, 523:18, 545:18</p> <p>cornerstone [1] - 580:1</p> <p>corporate [5] - 573:16, 573:25, 574:7, 611:22, 612:16</p> <p>corporate's [1] - 613:11</p> <p>correct [28] - 531:21, 555:9, 565:3, 572:22, 575:21, 575:22, 593:25, 594:1, 594:2, 594:3, 594:10, 594:14, 594:21, 595:16, 595:17, 595:19, 595:24, 596:15, 596:22, 596:23, 597:8, 597:10, 598:22, 598:25, 599:5, 599:13, 601:7, 602:5</p> <p>correctly [1] - 591:17</p> <p>correspondence [1] - 603:18</p> <p>Corrupt [1] - 600:9</p> <p>cost [2] - 557:16, 591:6</p> <p>costs [2] - 580:23, 581:2</p> <p>counsel [4] - 509:23, 576:20, 596:2, 603:12</p> <p>count [2] - 530:18, 531:5</p> <p>counters [2] - 531:1, 531:9</p> <p>County [2] - 509:18, 509:19</p> <p>county [3] - 509:13, 509:17, 509:25</p> <p>couple [6] - 512:15, 515:4, 524:14, 527:19, 547:24, 578:16</p> <p>course [7] - 537:2, 545:2, 554:2, 559:11, 577:10, 590:14, 604:22</p> <p>Court [1] - 614:19</p> <p>court [2] - 510:2, 612:19</p>	<p>cover [5] - 542:19, 560:12, 560:15, 560:17, 561:11</p> <p>covered [1] - 524:17</p> <p>covering [1] - 516:1</p> <p>COVID [2] - 540:14, 540:19</p> <p>cream [1] - 527:17</p> <p>create [1] - 544:5</p> <p>creating [2] - 524:15, 592:5</p> <p>creatures [1] - 515:21</p> <p>credibility [1] - 578:11</p> <p>criteria [3] - 513:5, 518:6, 598:5</p> <p>critical [3] - 512:25, 521:6, 524:2</p> <p>crop [1] - 527:17</p> <p>Cross [1] - 611:15</p> <p>cross [12] - 521:9, 521:10, 529:22, 530:9, 540:1, 542:17, 543:6, 566:16, 603:17, 607:15, 607:19, 609:2</p> <p>cross-examination [5] - 529:22, 530:9, 540:1, 607:15, 607:19</p> <p>cross-section [1] - 609:2</p> <p>cross-sections [2] - 521:9, 521:10</p> <p>crush [2] - 551:24, 552:5</p> <p>crusher [1] - 552:1</p> <p>crushing [3] - 551:21, 551:24, 552:1</p> <p>cultural [3] - 515:1, 515:5, 530:3</p> <p>culture [3] - 514:1, 515:6, 515:19</p> <p>curious [1] - 530:15</p> <p>current [4] - 509:11, 577:20, 581:7, 603:20</p> <p>cut [1] - 598:11</p>	<p>516:10, 519:1, 528:16, 532:5, 550:11, 557:17, 557:18, 557:20, 557:23</p> <p>dataset [1] - 567:22</p> <p>date [5] - 536:6, 556:21, 567:20, 592:23, 613:22</p> <p>daughters [1] - 538:10</p> <p>dawnland [1] - 511:17</p> <p>days [7] - 512:15, 524:14, 527:19, 547:24, 610:20, 610:23, 611:17</p> <p>de [1] - 590:20</p> <p>deal [3] - 573:14, 584:15, 608:17</p> <p>dealing [1] - 607:8</p> <p>dealings [1] - 600:10</p> <p>Dean [1] - 507:18</p> <p>dean@bloomerrussell.com [1] - 507:20</p> <p>death [1] - 529:11</p> <p>decades [1] - 522:16</p> <p>decide [1] - 590:7</p> <p>decided [3] - 568:15, 568:16, 571:22</p> <p>decisions [3] - 583:1, 583:7, 598:4</p> <p>declined [1] - 538:24</p> <p>declines [1] - 529:13</p> <p>deemed [2] - 521:13, 601:6</p> <p>deeply [1] - 514:2</p> <p>Defense [1] - 507:23</p> <p>defer [1] - 604:9</p> <p>definitely [1] - 576:1</p> <p>definition [2] - 601:4, 601:9</p> <p>degree [1] - 582:22</p> <p>delusion [1] - 519:16</p> <p>demise [1] - 518:14</p> <p>demonstrated [2] - 516:7, 545:22</p> <p>density [2] - 564:9, 564:12</p> <p>DEP [11] - 538:2, 539:8, 571:22, 573:17, 575:19, 576:3, 576:7, 576:13, 580:4, 583:17, 584:3</p> <p>DEP's [1] - 519:1</p> <p>Department [2] - 522:19, 528:3</p> <p>department [1] - 605:4</p>	<p>dependent [1] - 523:11</p> <p>deposit [14] - 547:12, 549:24, 550:6, 550:22, 551:1, 552:17, 552:19, 553:1, 560:8, 573:3, 594:14, 595:1, 595:11</p> <p>deposits [1] - 573:2</p> <p>depth [1] - 584:8</p> <p>depths [1] - 543:24</p> <p>describe [6] - 553:25, 554:8, 555:22, 561:17, 562:1, 590:20</p> <p>described [10] - 550:14, 551:23, 566:16, 590:16, 590:24, 590:25, 591:4, 598:24, 604:7, 612:18</p> <p>designated [5] - 512:24, 513:4, 513:10, 513:15, 521:7</p> <p>desirable [1] - 534:12</p> <p>despite [1] - 528:9</p> <p>destroys [1] - 525:9</p> <p>detail [2] - 556:13, 564:18</p> <p>detailed [3] - 557:10, 562:13, 569:3</p> <p>details [1] - 551:1</p> <p>detectors [1] - 531:5</p> <p>determine [1] - 608:23</p> <p>develop [6] - 573:6, 574:23, 582:22, 584:11, 590:3, 590:4</p> <p>developed [5] - 524:9, 546:7, 550:3, 557:14, 557:16</p> <p>developing [1] - 529:12</p> <p>development [7] - 509:9, 515:8, 546:1, 550:5, 561:22, 574:16, 583:7</p> <p>developments [2] - 583:11</p> <p>dewatering [4] - 585:12, 585:14, 585:17, 585:20</p> <p>diadromous [2] - 521:17, 522:20</p> <p>diagram [1] - 552:22</p> <p>die [1] - 529:7</p> <p>diet [2] - 515:17</p> <p>diets [1] - 515:14</p> <p>differ [1] - 581:9</p>
		D		
		<p>dam [4] - 522:4, 530:22, 530:23, 559:6</p> <p>damage [1] - 529:6</p> <p>dams [5] - 517:15, 521:22, 522:8, 522:9, 523:18</p> <p>Dan [1] - 510:15</p> <p>Dana [1] - 507:14</p> <p>data [12] - 511:12,</p>		

<p>difference [3] - 534:10, 561:3, 597:23</p> <p>different [14] - 523:14, 536:21, 566:16, 566:17, 568:3, 568:7, 569:7, 569:9, 576:6, 581:1, 581:2, 587:12, 587:13</p> <p>differently [2] - 514:5, 514:10</p> <p>diminished [1] - 523:4</p> <p>dioxins [2] - 515:11, 527:3</p> <p>direct [3] - 519:13, 520:7, 607:16</p> <p>direction [2] - 558:11, 566:6</p> <p>directly [2] - 571:6, 606:1</p> <p>director [1] - 509:20</p> <p>disagree [1] - 602:6</p> <p>discharge [11] - 511:7, 517:20, 519:13, 519:25, 520:8, 520:17, 520:20, 520:22, 532:2, 532:11, 534:2</p> <p>discharged [1] - 561:7</p> <p>discharges [7] - 517:15, 517:19, 518:15, 520:11, 527:5, 527:10, 534:16</p> <p>discourse [1] - 564:23</p> <p>discuss [4] - 585:1, 592:17, 592:18, 609:13</p> <p>discussed [4] - 545:10, 552:16, 553:14, 562:5</p> <p>discussing [2] - 597:7, 603:24</p> <p>discussion [8] - 541:23, 543:11, 545:9, 565:12, 576:22, 597:5, 603:2, 609:25</p> <p>disinterested [1] - 614:10</p> <p>dismantling [1] - 571:13</p> <p>dissolved [3] - 516:2, 518:6, 518:10</p> <p>distinct [1] - 521:4</p> <p>distinctly [1] - 510:2</p> <p>distinguish [1] - 594:23</p> <p>divide [3] - 514:11,</p>	<p>558:6, 558:7</p> <p>Division [1] - 507:9</p> <p>docs [1] - 612:16</p> <p>document [5] - 562:16, 603:18, 604:10, 607:11, 613:4</p> <p>documents [10] - 596:21, 607:10, 608:9, 610:9, 611:22, 612:2, 612:20, 613:7, 613:16, 613:20</p> <p>DON [1] - 506:24</p> <p>done [16] - 536:13, 543:9, 550:24, 557:8, 562:4, 562:6, 562:12, 562:17, 563:5, 563:7, 569:12, 571:11, 571:21, 579:3, 607:25, 610:17</p> <p>door [1] - 605:2</p> <p>doors [1] - 555:2</p> <p>doubled [1] - 603:17</p> <p>Doug [3] - 508:9, 556:14, 563:1</p> <p>DOUG [1] - 556:15</p> <p>down [16] - 516:21, 522:7, 525:14, 530:17, 534:3, 534:11, 534:25, 535:10, 543:23, 549:21, 554:12, 573:3, 576:1, 579:19, 588:23, 591:18</p> <p>Downeast [2] - 537:13</p> <p>downhill [1] - 544:11</p> <p>downward [1] - 555:3</p> <p>downward-facing [1] - 555:3</p> <p>dr [1] - 559:18</p> <p>Dr [25] - 525:1, 533:2, 543:15, 543:18, 543:19, 544:21, 545:10, 549:23, 550:24, 551:5, 551:10, 558:13, 560:4, 560:13, 562:5, 564:24, 565:12, 565:20, 566:15, 585:10, 585:13, 588:4, 590:16, 596:4</p> <p>drainage [30] - 518:12, 519:14, 519:18, 519:20, 519:23, 520:1, 520:3, 520:5, 524:15, 524:17, 524:19, 525:3, 526:2, 528:20,</p>	<p>529:8, 529:12, 545:11, 548:18, 549:19, 549:24, 550:20, 558:10, 560:20, 561:6, 562:7, 586:14, 594:21, 595:4, 595:10</p> <p>drift [1] - 551:16</p> <p>drifts [1] - 551:14</p> <p>drill [3] - 564:9, 564:12, 568:9</p> <p>drilled [1] - 568:17</p> <p>drilling [4] - 562:12, 563:7, 563:9, 563:11</p> <p>drillings [1] - 566:2</p> <p>drive [2] - 534:3, 534:24</p> <p>drives [2] - 535:2, 535:17</p> <p>drop [2] - 552:12, 552:15</p> <p>dry [1] - 587:8</p> <p>dtreport@myottmail.com [1] - 506:25</p> <p>dual [1] - 584:1</p> <p>Dudek [6] - 545:21, 547:7, 550:3, 550:10, 566:18, 567:23</p> <p>due [2] - 515:10, 611:7</p> <p>duration [3] - 526:3, 570:7, 570:8</p> <p>durations [1] - 551:19</p> <p>during [9] - 518:13, 543:20, 544:19, 549:12, 566:24, 570:14, 572:3, 609:1, 609:19</p> <p>duties [1] - 510:22</p> <p>dwelling [1] - 526:12</p>	<p>eastern [1] - 526:9</p> <p>eat [3] - 526:18, 527:16, 590:1</p> <p>ecological [1] - 557:15</p> <p>economic [3] - 537:4, 601:7, 613:5</p> <p>economically [2] - 526:15, 526:19</p> <p>EDGAR [1] - 597:13</p> <p>edge [2] - 542:5, 542:6</p> <p>effective [2] - 560:19, 586:12</p> <p>effectively [3] - 544:11, 549:4, 574:8</p> <p>effort [1] - 574:25</p> <p>efforts [5] - 521:16, 522:21, 524:11, 530:4, 579:18</p> <p>eggs [2] - 525:7, 529:4</p> <p>either [5] - 514:17, 517:7, 519:7, 529:3, 544:22</p> <p>elaborate [1] - 573:18</p> <p>elevator [2] - 530:22, 530:24</p> <p>Elkins [1] - 507:4</p> <p>eloquently [1] - 529:25</p> <p>elsewhere [1] - 527:8</p> <p>eluded [1] - 586:17</p> <p>Elwell [2] - 507:8, 509:22</p> <p>ELWELL [11] - 509:22, 581:23, 582:2, 605:9, 605:24, 606:17, 608:18, 608:20, 610:1, 610:11, 610:20</p> <p>embedded [1] - 515:19</p> <p>emerging [1] - 586:12</p> <p>EMLEIN [1] - 529:23</p> <p>Emlein [1] - 507:13</p> <p>employees [2] - 583:5, 583:18</p> <p>employing [2] - 569:16, 569:22</p> <p>employment [3] - 538:23, 570:20, 572:8</p> <p>enacted [1] - 514:7</p> <p>encourage [1] - 605:1</p> <p>end [8] - 529:3, 546:15, 554:6,</p>	<p>555:23, 556:12, 570:12, 605:9, 610:19</p> <p>endangered [2] - 521:5, 521:15</p> <p>Endangered [1] - 521:5</p> <p>endeared [1] - 575:13</p> <p>ended [1] - 600:8</p> <p>ending [1] - 584:17</p> <p>ends [1] - 531:19</p> <p>engineering [1] - 562:12</p> <p>enhance [1] - 586:4</p> <p>enjoyed [1] - 535:3</p> <p>enter [1] - 608:7</p> <p>entire [2] - 529:7, 586:19</p> <p>entrances [2] - 555:2, 555:5</p> <p>environment [3] - 518:13, 525:23, 561:7</p> <p>environmental [4] - 550:7, 559:11, 560:23, 584:5</p> <p>equal [3] - 518:16, 520:12, 520:21</p> <p>equally [3] - 550:12, 550:16, 595:14</p> <p>equation [1] - 560:13</p> <p>equivalent [1] - 597:13</p> <p>error [1] - 603:8</p> <p>especially [5] - 528:20, 529:11, 541:2, 567:10, 608:4</p> <p>Esq [5] - 507:3, 507:13, 507:13, 507:18, 507:23</p> <p>essential [1] - 521:14</p> <p>essentially [7] - 532:25, 545:13, 554:13, 565:2, 574:6, 587:8, 592:4</p> <p>established [3] - 546:14, 571:23, 571:25</p> <p>estimate [4] - 557:16, 570:1, 570:5, 602:9</p> <p>estimated [1] - 529:17</p> <p>estimating [1] - 570:23</p> <p>et [1] - 590:1</p> <p>evaluate [1] - 562:7</p> <p>evaluation [1] - 557:10</p> <p>evening [1] - 510:4</p>
		E		
		<p>E-mail [1] - 506:25</p> <p>early [4] - 544:7, 553:5, 553:9, 568:23</p> <p>ears [1] - 536:15</p> <p>Earthjustice [1] - 507:23</p> <p>earthworks [1] - 571:14</p> <p>easily [1] - 518:12</p> <p>east [7] - 513:1, 513:14, 514:13, 516:23, 517:25, 522:22, 522:24</p> <p>Eastern [1] - 529:17</p>		

<p>evenings [1] - 611:17</p> <p>event [4] - 557:19, 558:4, 558:10, 614:11</p> <p>Everett [1] - 509:11</p> <p>evidence [6] - 510:13, 528:9, 536:8, 545:22, 608:7, 611:8</p> <p>Evidence [3] - 506:14, 508:3, 508:5</p> <p>evidentiary [1] - 607:22</p> <p>exact [1] - 594:15</p> <p>exactly [1] - 596:8</p> <p>examination [8] - 508:7, 508:8, 508:10, 529:22, 530:9, 540:1, 607:15, 607:19</p> <p>EXAMINATION [7] - 543:12, 551:3, 556:15, 558:14, 561:12, 593:5, 596:9</p> <p>Examination [1] - 508:9</p> <p>example [15] - 532:16, 554:6, 554:14, 554:15, 554:20, 557:5, 558:25, 559:14, 562:4, 584:3, 585:13, 586:20, 587:11, 587:23, 593:9</p> <p>examples [6] - 554:4, 558:17, 558:20, 593:19, 593:24</p> <p>excavate [1] - 592:1</p> <p>excavated [2] - 548:6, 566:24</p> <p>excavation [1] - 552:22</p> <p>excavations [2] - 552:24, 591:5</p> <p>excel [1] - 582:15</p> <p>except [3] - 519:10, 579:2, 611:6</p> <p>excuse [2] - 522:13, 601:20</p> <p>excused [1] - 604:15</p> <p>execution [1] - 579:13</p> <p>executive [1] - 509:20</p> <p>exerts [1] - 544:14</p> <p>Exhibit [1] - 600:3</p> <p>exhibit [9] - 600:7, 600:21, 600:22, 602:21, 602:24, 603:23, 609:13, 609:24</p>	<p>exhibits [12] - 599:12, 600:16, 602:13, 603:11, 605:11, 605:16, 606:8, 606:18, 608:24, 609:1, 609:11, 609:22</p> <p>exist [5] - 547:11, 547:13, 553:18, 570:17, 571:15</p> <p>existed [1] - 544:18</p> <p>existing [3] - 518:16, 528:17, 571:2</p> <p>exists [3] - 544:3, 547:4, 566:15</p> <p>expanding [1] - 539:3</p> <p>expect [3] - 579:11, 580:3, 580:12</p> <p>experience [3] - 553:13, 571:4, 582:23</p> <p>experienced [1] - 538:25</p> <p>expertise [1] - 583:18</p> <p>expired [1] - 602:16</p> <p>expires [1] - 614:22</p> <p>explain [3] - 516:15, 564:25, 586:2</p> <p>exploration [5] - 550:5, 561:19, 561:22, 561:25, 568:11</p> <p>explore [1] - 573:5</p> <p>explorer [1] - 568:10</p> <p>explorer/developer [1] - 561:21</p> <p>exploring [2] - 573:10, 575:8</p> <p>exposed [1] - 552:3</p> <p>express [1] - 552:19</p> <p>extensive [1] - 526:10</p> <p>extent [1] - 581:23</p> <p>extracted [2] - 548:5, 595:3</p> <p>extreme [1] - 558:3</p> <p>extremely [1] - 564:3</p> <p>eyes [1] - 536:14</p>	<p>fact [9] - 514:7, 527:11, 549:1, 549:9, 558:23, 566:10, 580:3, 601:11</p> <p>factory [1] - 538:17</p> <p>fade [1] - 515:7</p> <p>fair [2] - 569:17, 585:4</p> <p>fairly [2] - 548:11, 567:15</p> <p>fairness [1] - 600:20</p> <p>falls [1] - 563:18</p> <p>Falls [1] - 538:18</p> <p>falsely [2] - 528:11, 528:12</p> <p>familiar [1] - 600:23</p> <p>far [8] - 523:8, 526:8, 541:10, 550:6, 557:14, 558:2, 562:9, 570:5</p> <p>farm [1] - 588:15</p> <p>farmed [1] - 588:16</p> <p>fast [1] - 542:12</p> <p>faster [1] - 545:7</p> <p>fatal [1] - 525:17</p> <p>fathom [1] - 537:6</p> <p>fault [1] - 545:6</p> <p>faults [2] - 544:17, 544:20</p> <p>fauna [1] - 563:3</p> <p>favor [1] - 612:24</p> <p>favorable [1] - 570:9</p> <p>fear [1] - 541:3</p> <p>feasibility [6] - 562:23, 563:5, 569:3, 580:16, 580:20, 601:10</p> <p>feature [1] - 559:7</p> <p>features [3] - 521:14, 544:25, 547:18</p> <p>February [1] - 593:8</p> <p>federal [1] - 522:17</p> <p>feet [5] - 552:25, 554:9, 555:12, 555:13, 559:7</p> <p>fellow [1] - 510:15</p> <p>FERC [1] - 511:6</p> <p>few [10] - 519:10, 527:15, 537:10, 538:4, 540:20, 541:4, 566:18, 609:6, 612:24</p> <p>fieler [1] - 579:23</p> <p>figure [1] - 585:3</p> <p>filed [7] - 578:20, 597:9, 597:12, 597:19, 612:1, 612:20, 613:17</p> <p>filing [2] - 597:13, 613:11</p> <p>filtrate [1] - 587:9</p>	<p>final [1] - 580:3</p> <p>finance [1] - 580:9</p> <p>financial [11] - 577:23, 577:24, 578:3, 579:22, 581:18, 581:20, 582:4, 596:13, 596:14, 598:6, 613:9</p> <p>financials [4] - 578:17, 578:21, 612:2, 613:15</p> <p>fine [2] - 542:22, 593:3</p> <p>finish [1] - 536:2</p> <p>Finley [11] - 508:7, 543:15, 551:5, 551:10, 558:13, 559:18, 560:4, 562:5, 585:13, 590:16, 593:7</p> <p>FINLEY [22] - 543:12, 558:14, 559:20, 559:22, 561:1, 565:4, 565:17, 566:1, 566:5, 566:8, 585:16, 585:22, 586:3, 586:16, 588:12, 588:19, 589:4, 589:6, 589:14, 589:17, 590:13, 593:5</p> <p>Finley's [1] - 596:4</p> <p>fire [1] - 513:8</p> <p>firm [1] - 578:10</p> <p>first [14] - 511:19, 536:12, 554:2, 554:4, 555:25, 573:13, 578:16, 584:24, 588:5, 600:17, 603:5, 603:13, 611:24, 613:11</p> <p>Fish [1] - 522:18</p> <p>fish [38] - 511:3, 513:8, 514:25, 515:12, 515:13, 515:16, 521:18, 522:1, 522:5, 522:7, 522:20, 523:8, 523:11, 523:13, 523:14, 524:25, 526:15, 526:16, 526:17, 527:18, 527:23, 528:19, 529:4, 529:7, 529:12, 530:16, 530:18, 530:22, 530:23, 531:1, 531:2, 531:6, 531:11, 531:18, 531:19, 557:24</p> <p>Fisheries [1] - 528:3</p> <p>fisheries [4] - 518:14, 528:10,</p>	<p>528:14, 528:18</p> <p>Fishery [2] - 512:25, 521:7</p> <p>fishing [4] - 513:4, 513:11, 515:3, 515:10</p> <p>fissures [1] - 544:17</p> <p>FITZGERALD [9] - 509:24, 510:18, 530:15, 531:4, 531:14, 591:8, 591:10, 591:16, 592:12</p> <p>Fitzgerald [1] - 509:24</p> <p>FITZPATRICK [2] - 538:7, 540:17</p> <p>Fitzpatrick [2] - 538:8, 540:5</p> <p>five [10] - 513:20, 538:25, 551:18, 570:10, 575:10, 604:19, 610:20, 610:23, 611:7, 612:11</p> <p>five-day [1] - 611:7</p> <p>five-year [1] - 570:10</p> <p>flagship [1] - 579:7</p> <p>flashed [1] - 609:11</p> <p>flooded [1] - 552:14</p> <p>flora [1] - 563:2</p> <p>flow [7] - 544:11, 544:15, 544:19, 544:23, 545:4, 545:7, 545:8</p> <p>flowing [1] - 543:19</p> <p>fluctuation [1] - 553:1</p> <p>foam [1] - 516:1</p> <p>focus [2] - 545:18, 567:12</p> <p>focused [1] - 574:19</p> <p>folks [7] - 536:10, 585:9, 596:21, 598:20, 602:21, 607:6, 610:25</p> <p>follow [6] - 539:14, 574:11, 582:3, 582:9, 582:12, 596:12</p> <p>follow-up [2] - 582:3, 582:12</p> <p>followed [1] - 609:3</p> <p>following [2] - 519:17, 610:4</p> <p>food [1] - 515:19</p> <p>foods [2] - 511:3, 514:25</p> <p>foregoing [1] - 614:7</p> <p>foreign [1] - 600:9</p> <p>forget [1] - 580:14</p> <p>forgetting [1] - 511:24</p>
	F			
	<p>FAA [2] - 555:8, 555:11</p> <p>facilities [2] - 519:6, 555:24</p> <p>facility [3] - 520:19, 531:1, 572:21</p> <p>facing [1] - 555:3</p>			

<p>forgot [1] - 584:23 form [2] - 561:6, 614:6 format [1] - 563:19 Fort [4] - 559:1, 579:14, 594:7, 595:2 forth [2] - 539:10, 611:20 forward [3] - 530:6, 581:11, 604:19 foundation [1] - 591:13 foundations [1] - 571:14 four [6] - 516:17, 522:16, 551:18, 570:10, 587:6 fracture [1] - 545:6 fractures [1] - 544:20 fragile [1] - 518:13 framework [1] - 605:13 frankly [1] - 534:9 fraud [1] - 564:2 frequency [1] - 571:22 freshwater [1] - 525:23 fringe [2] - 541:17, 541:23 front [1] - 550:6 fruition [2] - 537:7, 537:19 fry [2] - 522:22, 525:7 full [5] - 562:23, 563:5, 580:16, 607:21, 614:7 fully [5] - 515:9, 562:6, 562:7, 580:8, 606:21 fundamentally [3] - 567:5, 587:13, 609:16 funding [1] - 580:9 funds [1] - 573:4 future [4] - 567:10, 578:7, 580:21</p>	<p>generating [3] - 545:25, 546:4, 547:8 generation [3] - 521:25, 548:17, 549:18 gentlemen [1] - 542:9 geochemical [13] - 546:10, 546:17, 546:23, 547:14, 548:24, 549:12, 550:7, 550:8, 565:11, 566:9, 567:6, 567:21, 568:3 geologic [1] - 550:5 Geological [3] - 593:18, 594:13, 594:17 geological [1] - 567:23 geology [3] - 532:23, 550:13, 566:15 gigantic [1] - 587:16 gill [1] - 529:6 gills [2] - 524:25, 526:6 given [4] - 531:16, 542:25, 600:12, 606:11 glad [1] - 572:24 gold [3] - 587:12, 594:10, 594:12 gorgeous [1] - 528:2 governing [1] - 539:11 gram [1] - 513:11 grams [1] - 513:9 grandfather [1] - 535:14 graph [2] - 523:9, 523:17 graphs [1] - 530:20 Grass [2] - 521:1, 527:25 gravel [4] - 513:22, 525:4, 525:5, 525:8 gravels [1] - 525:9 Great [1] - 521:22 great [13] - 539:1, 539:21, 539:23, 540:17, 555:25, 569:20, 572:24, 574:23, 579:8, 582:11, 588:1, 603:9 greater [3] - 539:3, 539:6, 556:12 greatly [5] - 523:3, 532:12, 533:12, 534:21, 534:23 green [5] - 516:4,</p>	<p>516:21, 517:8, 519:11, 534:25 ground [4] - 524:22, 544:6, 547:16, 579:19 grounds [1] - 609:10 groundwater [3] - 520:22, 544:3, 545:4 group [1] - 574:20 grow [1] - 525:22 guarantee [3] - 539:15, 602:3, 602:4 guess [17] - 535:1, 537:25, 540:14, 542:6, 555:11, 569:19, 575:15, 576:11, 576:21, 581:9, 589:12, 589:15, 604:16, 605:14, 605:25, 608:20, 613:1 guidelines [1] - 567:3 guides [1] - 526:19 gulf [1] - 521:3 guys [3] - 536:13, 573:22, 579:18 Gwen [2] - 509:19, 569:6</p>	<p>512:22, 512:23 hatch [1] - 525:22 hate [2] - 534:10, 605:9 hauling [1] - 587:19 Haynes [3] - 507:17, 542:4, 608:10 head [2] - 525:19, 547:2 headframe [7] - 553:24, 554:5, 554:6, 554:10, 554:14, 554:15, 554:21 headframes [2] - 554:4, 555:1 heading [1] - 566:5 headwaters [2] - 524:10, 559:8 Health [1] - 538:14 health [4] - 513:5, 515:10, 527:11, 538:15 healthy [1] - 528:4 heap [2] - 587:16, 587:20 hear [2] - 510:19, 607:16 heard [9] - 510:18, 512:20, 524:13, 527:19, 532:18, 557:2, 573:2, 577:3, 580:18</p>	<p>527:23 herring [4] - 523:17, 523:19, 523:21, 530:21 Hersey [4] - 519:8, 520:9, 520:10, 542:1 hidden [1] - 554:19 high [13] - 516:2, 517:18, 518:10, 520:24, 524:14, 532:8, 548:1, 549:24, 550:21, 550:25, 559:7, 594:23, 595:11 High [2] - 506:18, 509:2 higher [3] - 516:11, 516:14, 517:4 highest [3] - 516:18, 517:13, 517:17 HILTON [22] - 509:19, 540:9, 541:6, 554:23, 555:8, 555:12, 555:15, 569:7, 569:11, 569:13, 569:23, 570:4, 571:7, 571:9, 571:17, 572:4, 572:14, 572:18, 574:15, 575:15, 575:23, 576:11 Hilton [2] - 509:19, 553:23 Hilton's [1] - 596:5 hindsight [1] - 584:10 hire [1] - 553:20 hired [2] - 553:11, 553:17 historic [3] - 515:25, 522:10, 529:15 historical [1] - 527:5 historically [5] - 514:14, 515:13, 516:24, 517:6, 523:1 history [2] - 582:25, 599:15 holding [1] - 531:8 hole [2] - 568:18 holes [5] - 564:13, 564:14, 568:17, 568:21, 568:22 home [1] - 520:16 honest [1] - 573:18 hope [2] - 536:16, 573:8 hopefully [1] - 510:3 hoping [1] - 570:12 horizontal [3] - 547:2, 551:8, 551:17 hosts [2] - 523:4,</p>
G		H		
<p>gate [1] - 605:2 gems [1] - 528:2 General [2] - 507:7, 507:8 general [3] - 509:23, 548:22, 565:13 generally [1] - 548:15 generate [1] - 552:3</p>	<p>H.C [1] - 507:17 habitat [6] - 512:25, 521:6, 522:11, 524:2, 524:7, 528:8 habitats [1] - 530:6 half [2] - 587:17, 611:17 Halfmile [3] - 556:1, 556:4, 564:18 halo [5] - 547:10, 594:25, 595:5, 595:13 hand [11] - 510:7, 522:3, 523:12, 523:18, 544:1, 545:18, 589:18, 590:7, 596:1, 602:13, 614:13 handle [1] - 593:2 handled [1] - 593:1 hands [1] - 510:4 handy [1] - 587:15 happy [1] - 556:11 hard [3] - 567:9, 595:8, 612:12 harder [1] - 531:12 harmful [2] - 513:6, 524:19 hashmarks [2] -</p>	<p>HEARING [1] - 506:2 hearing [25] - 509:1, 509:6, 509:13, 536:6, 582:3, 586:15, 592:23, 600:2, 600:7, 602:21, 602:24, 603:23, 605:17, 605:21, 609:10, 609:19, 610:5, 610:19, 611:6, 611:12, 611:13, 612:12, 613:22, 614:4, 614:8 heavy [2] - 524:19, 588:20 held [3] - 536:5, 543:11, 592:22 help [8] - 514:19, 521:16, 522:19, 528:24, 534:24, 540:19, 604:24, 608:11 helpful [2] - 564:19, 598:4 helps [1] - 569:5 hereby [2] - 611:11, 614:4 heritage [2] - 527:18,</p>		

<p>523:5 Houlton [1] - 538:8 House [2] - 507:4, 507:9 Howland [1] - 521:24 huge [2] - 531:10, 533:23 human [1] - 513:5 hundred [1] - 568:24 hundreds [2] - 516:8, 587:1 hydrogeology [1] - 563:1</p>	<p>improved [5] - 522:1, 522:9, 533:12, 534:23 improvement [1] - 584:1 improvements [2] - 515:24, 516:6 IN [1] - 614:13 INC [1] - 506:24 inch [1] - 567:24 include [3] - 521:10, 563:11, 604:6 included [2] - 519:5, 588:21 includes [4] - 512:4, 562:11, 562:24, 562:25 including [8] - 513:7, 514:25, 518:8, 521:11, 522:17, 522:21, 603:16, 611:7 inclusive [1] - 556:9 increase [3] - 529:10, 553:12, 571:4 incubation [2] - 518:9, 525:10 indeed [1] - 553:17 independent [1] - 562:15 INDEX [1] - 508:1 Indian [2] - 510:17, 510:23 indicate [1] - 585:11 indicated [5] - 563:7, 563:9, 563:21, 563:22, 564:6 indicating [1] - 610:11 indicative [1] - 567:20 indicators [1] - 511:6 industrial [2] - 515:16, 527:1 industry [6] - 515:7, 534:20, 564:3, 573:19, 586:10, 590:11 inertly [1] - 591:20 inferred [11] - 563:7, 563:8, 563:21, 563:22, 563:25, 564:6, 564:11, 601:4, 601:5, 601:11 influx [1] - 540:13 information [8] - 547:6, 550:3, 550:13, 556:18, 580:25, 584:8, 598:3, 605:20 infrastructure [3] - 539:2, 556:10, 589:25 initial [1] - 567:13</p>	<p>Inland [1] - 528:3 input [1] - 587:14 insects [1] - 511:5 Insurance [1] - 611:15 intact [1] - 526:11 intend [2] - 573:4, 605:10 intended [1] - 518:7 intent [2] - 546:1, 550:18 interacting [1] - 560:18 interaction [1] - 587:7 interest [2] - 555:21, 583:19 interested [1] - 598:23 interesting [2] - 540:22, 611:16 interfere [1] - 524:25 intermediate [1] - 579:21 interrupt [1] - 565:15 interruptions [1] - 599:24 Intervenor [1] - 508:3 intervenor [9] - 508:5, 510:13, 530:9, 536:7, 540:1, 540:4, 542:23, 557:3, 609:11 introduce [1] - 509:15 introduced [3] - 609:1, 609:23, 610:12 intrusion [1] - 515:7 inventory [3] - 552:7, 552:8, 552:10 investor [1] - 579:8 investors [3] - 562:17, 579:23, 580:1 involve [1] - 510:22 involved [7] - 521:21, 537:10, 537:17, 571:19, 574:16, 575:13 irrelevant [3] - 537:22, 607:2, 607:24 Island [2] - 510:23, 538:18 islands [1] - 512:4 issue [4] - 575:18, 599:16, 608:22 issues [5] - 511:12, 559:11, 584:5, 605:20, 609:17 issuing [1] - 579:3 items [3] - 581:5,</p>	<p>582:12 itself [3] - 541:11, 546:4, 595:11</p>	<p>579:15, 594:7, 595:2 Kusnierz [2] - 510:15, 530:2 KUSNIERZ [8] - 510:14, 510:19, 518:19, 518:24, 519:1, 532:3, 533:18, 535:19 Kusnierz's [1] - 529:24 KUSNIETZ [11] - 512:2, 518:22, 530:19, 531:5, 531:21, 531:24, 532:13, 533:16, 533:22, 534:22, 535:8</p>
I				
<p>ideas [1] - 588:1 identified [2] - 600:18, 608:5 identify [1] - 555:22 IF [1] - 537:16 image [5] - 554:20, 556:4, 556:5, 556:7, 556:8 images [2] - 522:2, 545:16 impact [6] - 552:12, 557:4, 557:23, 557:25, 560:23, 592:6 impacted [1] - 557:21 impacting [1] - 529:18 impacts [6] - 557:12, 557:14, 557:15, 557:23, 572:5, 575:18 implement [2] - 588:3, 588:10 importance [2] - 529:25, 530:3 important [23] - 514:9, 515:16, 525:5, 526:9, 526:15, 526:19, 526:21, 526:23, 528:6, 530:8, 546:6, 547:23, 548:17, 549:17, 550:12, 550:16, 566:14, 576:23, 587:1, 589:19, 594:22, 595:12, 595:14 impoundment [4] - 559:5, 559:6, 560:8, 560:16 impression [2] - 533:11, 611:24 improve [2] - 530:5, 580:12</p>		<p>Intervenor [1] - 508:3 intervenor [9] - 508:5, 510:13, 530:9, 536:7, 540:1, 540:4, 542:23, 557:3, 609:11 introduce [1] - 509:15 introduced [3] - 609:1, 609:23, 610:12 intrusion [1] - 515:7 inventory [3] - 552:7, 552:8, 552:10 investor [1] - 579:8 investors [3] - 562:17, 579:23, 580:1 involve [1] - 510:22 involved [7] - 521:21, 537:10, 537:17, 571:19, 574:16, 575:13 irrelevant [3] - 537:22, 607:2, 607:24 Island [2] - 510:23, 538:18 islands [1] - 512:4 issue [4] - 575:18, 599:16, 608:22 issues [5] - 511:12, 559:11, 584:5, 605:20, 609:17 issuing [1] - 579:3 items [3] - 581:5,</p>	<p>J</p> <p>jbrowne@verrill [1] - 507:15 jbrowne@verrill-law.com [1] - 507:15 Jeremy [3] - 508:8, 559:22, 575:5 JEREMY [1] - 551:3 JIM [2] - 543:12, 558:14 Jim [1] - 508:7 jobs [9] - 569:24, 602:2, 602:5, 602:7, 602:8, 602:22, 603:8, 603:13, 603:25 Joel [1] - 538:7 Joint [1] - 529:17 Jr [2] - 506:18, 509:2 Juliet [1] - 507:13 Juliette [1] - 584:18 jurisdiction [3] - 573:7, 574:22, 579:20 justa [1] - 538:3</p>	
I				
<p>ideas [1] - 588:1 identified [2] - 600:18, 608:5 identify [1] - 555:22 IF [1] - 537:16 image [5] - 554:20, 556:4, 556:5, 556:7, 556:8 images [2] - 522:2, 545:16 impact [6] - 552:12, 557:4, 557:23, 557:25, 560:23, 592:6 impacted [1] - 557:21 impacting [1] - 529:18 impacts [6] - 557:12, 557:14, 557:15, 557:23, 572:5, 575:18 implement [2] - 588:3, 588:10 importance [2] - 529:25, 530:3 important [23] - 514:9, 515:16, 525:5, 526:9, 526:15, 526:19, 526:21, 526:23, 528:6, 530:8, 546:6, 547:23, 548:17, 549:17, 550:12, 550:16, 566:14, 576:23, 587:1, 589:19, 594:22, 595:12, 595:14 impoundment [4] - 559:5, 559:6, 560:8, 560:16 impression [2] - 533:11, 611:24 improve [2] - 530:5, 580:12</p>		<p>Intervenor [1] - 508:3 intervenor [9] - 508:5, 510:13, 530:9, 536:7, 540:1, 540:4, 542:23, 557:3, 609:11 introduce [1] - 509:15 introduced [3] - 609:1, 609:23, 610:12 intrusion [1] - 515:7 inventory [3] - 552:7, 552:8, 552:10 investor [1] - 579:8 investors [3] - 562:17, 579:23, 580:1 involve [1] - 510:22 involved [7] - 521:21, 537:10, 537:17, 571:19, 574:16, 575:13 irrelevant [3] - 537:22, 607:2, 607:24 Island [2] - 510:23, 538:18 islands [1] - 512:4 issue [4] - 575:18, 599:16, 608:22 issues [5] - 511:12, 559:11, 584:5, 605:20, 609:17 issuing [1] - 579:3 items [3] - 581:5,</p>	<p>K</p> <p>Katahdin [5] - 512:13, 538:12, 538:14, 539:3, 539:6 keep [7] - 536:14, 542:13, 542:18, 575:8, 575:25, 582:21, 587:8 Kennebec [1] - 535:14 kid [1] - 535:15 kill [1] - 586:23 killer [1] - 529:9 kind [18] - 516:12, 516:19, 517:9, 521:9, 522:6, 535:11, 535:21, 541:2, 544:12, 549:1, 559:8, 569:25, 570:10, 582:20, 583:25, 586:18, 599:7, 604:18 kinds [2] - 590:10, 595:7 Kinross [6] - 579:14, 579:24, 598:25, 599:2, 599:6, 609:18 knowing [1] - 574:2 known [1] - 589:23 Knox [4] - 559:1,</p>	<p>L</p> <p>lab [1] - 568:11 labor [1] - 581:7 laboratory [1] - 510:23 lack [1] - 519:15 Lake [7] - 521:1, 527:25, 528:13, 556:23, 557:6, 558:1 Lakes [1] - 537:14 lakes [9] - 510:25, 512:14, 526:11, 528:4, 528:7, 532:16, 532:17, 532:22, 539:19 lakeville [1] - 537:12 lamprey [1] - 523:16 LAND [1] - 506:2 land [9] - 512:4, 512:7, 537:20, 537:23, 539:13, 539:16, 541:15, 542:4, 542:5 Land [7] - 507:2, 507:3, 509:6, 509:12, 509:21, 537:14, 611:12 lands [3] - 510:25, 512:11, 532:17 Lane [1] - 507:4 large [12] - 516:1, 523:15, 529:15, 550:11, 559:2, 559:4, 559:7, 583:10, 586:24, 587:12, 588:1, 598:22 largely [2] - 523:19, 605:12 larger [5] - 567:22, 575:7, 578:10, 598:23, 598:25</p>

<p>largest [4] - 513:19, 523:4, 523:5, 552:10</p> <p>last [15] - 510:3, 510:20, 512:15, 524:14, 526:12, 527:19, 527:21, 535:16, 535:20, 542:2, 547:24, 557:3, 586:11, 608:3</p> <p>lastly [2] - 601:19, 602:2</p> <p>latter [1] - 570:11</p> <p>law [3] - 513:3, 519:13</p> <p>law.com [1] - 507:15</p> <p>laws [5] - 518:15, 539:8, 539:10, 539:14, 601:4</p> <p>layer [1] - 519:2</p> <p>leach [2] - 587:16, 587:20</p> <p>leached [2] - 524:20</p> <p>leaching [2] - 545:13, 589:10</p> <p>lead [2] - 518:14, 542:14</p> <p>leading [1] - 570:11</p> <p>leads [1] - 605:14</p> <p>least [6] - 527:12, 546:3, 550:19, 562:10, 573:16, 613:12</p> <p>leave [2] - 584:1, 604:9</p> <p>led [1] - 562:10</p> <p>left [4] - 522:3, 523:6, 591:19, 605:19</p> <p>left-hand [1] - 522:3</p> <p>legislature [2] - 583:9, 583:24</p> <p>leisure [1] - 605:1</p> <p>length [3] - 549:21, 551:16, 572:6</p> <p>Leo [6] - 509:15, 509:16, 531:15, 564:20, 577:18, 588:13</p> <p>less [10] - 519:14, 519:23, 519:24, 529:5, 548:15, 548:21, 564:10, 574:16</p> <p>lessen [1] - 582:25</p> <p>letter [1] - 593:18</p> <p>letting [2] - 607:4, 607:5</p> <p>level [13] - 510:3, 516:14, 544:2, 544:14, 545:2, 545:4, 550:21, 552:13,</p>	<p>563:24, 564:14, 577:12, 578:13, 579:8</p> <p>levels [8] - 511:3, 516:3, 517:20, 520:12, 520:21, 520:23, 526:24, 601:13</p> <p>LeVert's [1] - 572:16</p> <p>licenses [1] - 534:2</p> <p>life [3] - 514:24, 515:2, 515:6</p> <p>lift [2] - 523:13, 530:22</p> <p>lifted [1] - 530:24</p> <p>lighten [1] - 604:17</p> <p>lighting [5] - 554:24, 554:25, 555:3, 555:5, 555:8</p> <p>likelihood [6] - 524:15, 546:3, 549:18, 549:24, 550:19, 550:25</p> <p>likely [3] - 523:10, 577:7, 598:16</p> <p>likewise [1] - 520:13</p> <p>lime [9] - 586:7, 588:17, 588:22, 588:24, 589:9, 589:24, 590:5, 590:14</p> <p>limit [5] - 555:14, 587:7, 587:9, 587:20, 587:24</p> <p>limited [5] - 552:4, 598:11, 608:21, 609:21, 610:13</p> <p>limiting [1] - 610:14</p> <p>limits [2] - 534:3, 534:24</p> <p>line [5] - 544:12, 545:20, 546:2, 576:20, 584:13</p> <p>lines [2] - 547:2, 551:8</p> <p>list [2] - 588:6, 609:1</p> <p>listed [3] - 521:5, 593:25, 601:5</p> <p>listing [1] - 521:6</p> <p>lithium [1] - 573:3</p> <p>lithologies [1] - 568:4</p> <p>LITTLE [17] - 559:24, 560:1, 560:24, 561:12, 568:8, 572:23, 574:18, 576:25, 578:15, 581:14, 581:16, 582:14, 582:19, 584:18, 596:9, 604:12, 604:16</p> <p>live [3] - 511:18,</p>	<p>525:24, 531:18</p> <p>lived [2] - 511:22, 538:9</p> <p>lives [1] - 525:18</p> <p>living [6] - 514:5, 514:6, 525:6, 525:8, 526:20, 540:25</p> <p>LLC [2] - 506:9, 507:12</p> <p>LLC's [1] - 509:8</p> <p>LLP [1] - 507:14</p> <p>loading [1] - 534:13</p> <p>local [10] - 515:16, 538:12, 553:12, 553:18, 570:16, 571:6, 571:11, 571:12, 575:10, 604:25</p> <p>locally [1] - 571:5</p> <p>located [6] - 512:18, 512:21, 513:22, 520:5, 521:22, 559:8</p> <p>location [5] - 512:10, 512:12, 541:8, 553:21, 561:10</p> <p>log [1] - 535:1</p> <p>logged [1] - 542:1</p> <p>logs [1] - 535:4</p> <p>long-term [2] - 546:22, 560:19</p> <p>look [14] - 514:5, 516:20, 520:9, 530:6, 532:4, 555:18, 567:14, 567:24, 568:20, 576:18, 581:11, 606:10, 606:12, 606:21</p> <p>looked [1] - 575:19</p> <p>looking [8] - 511:2, 568:12, 577:15, 579:16, 586:19, 588:25, 604:19, 610:5</p> <p>looks [4] - 514:9, 516:19, 576:13, 595:6</p> <p>loss [3] - 521:25, 534:20</p> <p>LOU [1] - 559:24</p> <p>LOUVEC [1] - 559:23</p> <p>Louvicourt [5] - 559:15, 559:20, 560:2, 585:18, 595:18</p> <p>LOUVICROUT [1] - 560:2</p> <p>love [3] - 575:7, 575:9, 580:25</p> <p>loved [1] - 604:23</p> <p>low [15] - 516:2, 524:18, 524:23, 526:2, 528:21, 529:10, 533:4,</p>	<p>545:24, 594:13, 594:17, 594:18, 594:19, 594:23, 595:12</p> <p>lower [6] - 517:25, 526:23, 544:9, 544:14, 545:3, 545:18</p> <p>lowest [1] - 516:25</p> <p>lump [1] - 591:20</p> <p>LUPC [12] - 508:4, 508:6, 508:11, 540:8, 575:18, 575:19, 583:1, 583:5, 593:8, 598:4, 603:14, 604:10</p>	<p>528:20, 537:1, 579:14</p> <p>majority [3] - 547:5, 569:22, 570:4</p> <p>Maliseet [2] - 511:20, 512:11</p> <p>manage [3] - 561:5, 561:8, 586:19</p> <p>management [9] - 520:19, 556:6, 560:19, 586:12, 590:25, 592:11, 597:5, 603:2, 613:14</p> <p>manager [2] - 510:16, 572:21</p> <p>manages [1] - 512:6</p> <p>managing [3] - 587:2, 587:5, 587:14</p> <p>Manitoba [1] - 561:16</p> <p>map [7] - 512:7, 512:10, 512:18, 512:23, 516:18, 519:8, 521:9</p> <p>maps [3] - 512:9, 519:17, 520:16</p> <p>March [1] - 614:22</p> <p>Marine [3] - 512:24, 521:7, 522:19</p> <p>mark [2] - 535:21, 578:5</p> <p>mark-to-market [1] - 578:5</p> <p>market [4] - 574:21, 577:21, 578:5, 580:12</p> <p>marks [1] - 513:22</p> <p>married [1] - 538:10</p> <p>marveled [1] - 535:3</p> <p>massive [1] - 550:22</p> <p>Matagamon [1] - 513:3</p> <p>material [18] - 546:12, 546:14, 546:19, 547:13, 547:21, 548:2, 548:4, 548:6, 548:12, 548:25, 552:5, 561:2, 565:8, 566:23, 567:18, 586:5, 587:2, 607:17</p> <p>materials [8] - 546:8, 546:11, 546:18, 560:18, 593:25, 606:2, 608:3, 608:5</p> <p>Mattamiscontis [1] - 514:20</p> <p>Mattawamkeag [12] - 512:16, 512:17, 513:1, 513:14, 513:21, 518:1, 521:12, 522:23,</p>
M				
			<p>Maest [15] - 525:1, 533:2, 543:18, 543:19, 544:21, 545:10, 549:23, 550:24, 562:5, 564:24, 565:12, 565:20, 566:15, 585:10, 588:4</p> <p>Maest's [1] - 560:13</p> <p>MAHONEY [8] - 540:5, 606:23, 607:13, 608:13, 608:19, 609:4, 610:8, 610:24</p> <p>mail [1] - 506:25</p> <p>main [3] - 536:18, 560:14, 566:13</p> <p>MAINE [1] - 506:1</p> <p>Maine [37] - 506:19, 506:24, 507:5, 507:7, 507:8, 507:10, 507:15, 507:20, 509:3, 513:3, 513:19, 519:1, 519:13, 521:3, 522:18, 526:8, 526:15, 526:17, 527:11, 528:3, 537:2, 537:5, 538:8, 538:9, 538:15, 538:19, 539:8, 539:11, 539:14, 539:18, 563:4, 573:2, 573:7, 573:10, 577:16, 593:18, 614:4</p> <p>Maine's [5] - 513:17, 516:15, 518:15, 525:15, 527:17</p> <p>Mainers [1] - 577:5</p> <p>mainstem [6] - 513:2, 514:12, 516:22, 517:1, 521:22, 526:25</p> <p>major [4] - 513:20,</p>	

<p>524:3, 524:11, 556:24 matter [2] - 563:9, 565:5 Matter [1] - 506:5 Maye [3] - 507:13, 545:15, 554:3 mean [22] - 533:23, 534:9, 536:20, 537:19, 538:3, 541:12, 542:1, 542:25, 565:9, 567:10, 569:23, 571:17, 572:11, 575:5, 575:23, 578:12, 580:24, 581:18, 585:7, 591:12, 598:7, 605:18 meaning [1] - 514:21 meaningful [1] - 609:25 means [3] - 513:4, 520:10, 545:7 measurable [1] - 560:22 measure [6] - 519:18, 546:5, 546:16, 547:14, 567:20, 588:5 measures [5] - 549:11, 549:15, 549:16, 588:6, 588:9 mechanical [1] - 592:10 medicines [1] - 515:1 meet [3] - 520:12, 520:23, 539:7 meets [1] - 546:13 melts [1] - 532:20 member [1] - 511:16 MEMBERS [1] - 510:10 members [2] - 510:15, 527:6 memorial [1] - 511:23 mention [2] - 524:1, 537:18 mentioned [21] - 527:2, 529:6, 544:7, 544:21, 548:3, 550:4, 551:10, 559:15, 563:21, 570:25, 579:15, 585:23, 586:14, 588:4, 591:11, 591:21, 591:24, 594:7, 603:13, 605:11, 607:10 mercury [2] - 515:11,</p>	<p>527:4 mercy [1] - 574:20 message [1] - 520:16 met [1] - 516:11 metal [6] - 529:8, 529:9, 529:13, 580:17, 580:18, 589:10 metallic [1] - 524:9 metals [6] - 513:7, 518:12, 524:20, 524:23, 529:10, 568:13 meters [2] - 562:11, 563:11 method [2] - 565:2, 586:9 Mi'kmaq [1] - 511:20 mic [1] - 559:25 Michael [1] - 572:16 mid [1] - 529:14 might [9] - 543:2, 555:18, 561:15, 577:8, 578:7, 598:21, 603:19, 611:23 migrate [1] - 587:9 mile [3] - 519:24, 580:13, 587:17 mileage [1] - 519:22 miles [9] - 516:8, 519:15, 519:25, 520:2, 520:3, 520:6, 522:10, 522:15, 529:18 Milford [3] - 523:13, 523:20, 530:21 milk [2] - 586:23, 590:17 mill [1] - 538:18 Millinocket [4] - 506:19, 507:20, 509:3, 538:17 million [7] - 523:21, 531:11, 562:10, 562:21, 563:10, 579:13, 583:6 mills [3] - 534:11, 534:16, 538:16 mind [3] - 535:21, 585:5, 608:25 Mine [7] - 506:10, 509:9, 527:24, 556:1, 556:4, 558:4, 569:15 mine [85] - 512:11, 517:24, 518:3, 518:4, 518:12, 520:18, 524:9, 524:13, 524:15, 524:16, 524:18, 525:3, 526:2,</p>	<p>526:6, 528:10, 528:19, 528:22, 529:8, 529:12, 539:15, 541:11, 543:20, 543:22, 544:4, 544:13, 544:15, 544:16, 544:19, 545:2, 545:5, 545:11, 545:12, 547:21, 548:12, 548:18, 549:6, 549:24, 550:18, 550:19, 551:12, 552:13, 552:14, 552:24, 554:7, 555:18, 558:21, 558:23, 559:1, 559:2, 559:14, 559:16, 559:19, 560:5, 560:20, 560:21, 561:5, 562:7, 563:13, 566:11, 566:21, 570:8, 570:23, 575:25, 579:9, 579:15, 585:14, 585:16, 585:20, 586:14, 587:11, 587:12, 591:5, 592:6, 592:9, 594:10, 594:12, 594:21, 599:12, 599:14, 600:4, 602:6, 602:7, 603:24 mined [1] - 548:7 mineral [2] - 524:9, 601:5 mineralogy [1] - 567:25 minerals [1] - 544:24 mines [13] - 529:13, 558:17, 561:24, 574:20, 575:6, 585:11, 585:17, 593:9, 593:19, 594:5, 596:4, 596:6, 596:7 minimally [1] - 532:12 minimize [1] - 545:11 minimized [1] - 572:1 mining [28] - 539:8, 545:23, 547:18, 549:8, 549:12, 549:19, 551:15, 552:22, 553:10, 553:13, 556:8, 558:24, 559:9, 559:12, 562:19, 564:2, 566:24,</p>	<p>573:19, 581:3, 582:20, 583:20, 583:21, 586:10, 586:24, 591:25, 592:2, 598:22, 600:10 mining-specific [1] - 553:10 minor [2] - 541:11, 541:12 minus [1] - 602:10 minute [4] - 518:20, 556:14, 565:16, 591:11 minutes [8] - 542:15, 542:18, 542:19, 584:25, 592:16, 592:18, 594:6, 594:16 Miramichi [1] - 556:2 mis [1] - 604:4 mischaracterizes [2] - 528:15, 528:16 misinterpreted [1] - 604:8 misinterpreting [1] - 604:4 misleading [1] - 601:8 miss [1] - 535:2 mitigate [1] - 586:13 mitigation [7] - 546:5, 546:16, 549:11, 549:16, 588:6, 588:8, 588:9 model [3] - 550:5, 582:4, 591:6 modeling [1] - 567:8 moderate [2] - 510:3, 526:4 moderately [2] - 525:16, 526:3 modern [1] - 585:14 moment [1] - 558:13 money [5] - 563:15, 578:25, 579:1, 580:7, 598:10 monitoring [2] - 571:18, 571:21 month [3] - 548:15, 548:21, 551:11 months [1] - 551:18 Monument [2] - 512:14, 539:20 morning [9] - 509:5, 509:16, 510:12, 510:14, 529:23, 536:3, 536:11, 538:7, 543:14 most [17] - 517:5, 517:8, 520:17, 526:9, 532:6, 539:17, 547:7,</p>	<p>549:21, 567:1, 579:2, 581:20, 585:11, 585:17, 585:19, 606:19, 607:17, 613:2 mountain [2] - 512:19, 512:20 Mountain [16] - 506:10, 509:9, 512:22, 539:4, 541:8, 556:22, 557:5, 557:13, 557:22, 558:4, 558:9, 560:9, 561:3, 569:15, 573:5, 579:6 mountains [1] - 539:19 mouth [1] - 536:14 move [2] - 569:9, 609:24 moved [1] - 538:16 movement [1] - 537:22 moving [3] - 520:25, 526:8, 572:23 MR [228] - 509:5, 509:16, 509:18, 509:22, 510:1, 510:11, 510:14, 510:19, 512:1, 512:2, 518:18, 518:19, 518:20, 518:22, 518:23, 518:24, 518:25, 519:1, 529:21, 530:9, 530:10, 530:13, 530:19, 531:5, 531:15, 531:16, 531:21, 531:22, 531:24, 532:1, 532:3, 532:9, 532:13, 533:8, 533:9, 533:16, 533:17, 533:18, 533:19, 533:22, 534:19, 534:22, 535:1, 535:8, 535:18, 535:19, 535:22, 535:24, 536:2, 536:7, 536:9, 536:11, 538:7, 540:1, 540:2, 540:4, 540:5, 540:8, 540:15, 540:17, 541:7, 541:10, 541:13, 541:14, 541:16, 541:18, 541:20, 541:21, 541:22, 541:25, 542:4, 542:6, 542:8, 542:10, 542:11, 542:22, 542:25, 543:5, 543:6, 543:7, 543:8, 543:10,</p>
--	--	--	--	--

<p>554:25, 555:10, 555:13, 559:20, 559:23, 559:24, 560:1, 560:24, 561:1, 564:20, 564:21, 565:4, 565:17, 565:23, 566:1, 566:2, 566:5, 566:8, 568:8, 569:5, 569:6, 569:20, 570:3, 570:5, 571:8, 571:10, 571:20, 572:13, 572:15, 572:23, 574:18, 576:25, 577:18, 577:19, 578:15, 581:11, 581:14, 581:15, 581:16, 581:22, 581:23, 582:2, 582:7, 582:11, 582:13, 582:14, 582:18, 582:19, 582:24, 582:25, 583:16, 584:18, 584:21, 584:23, 584:25, 585:2, 585:3, 585:4, 585:7, 585:16, 585:22, 586:3, 586:16, 588:12, 588:13, 588:14, 588:19, 588:20, 589:4, 589:5, 589:6, 589:12, 589:14, 589:15, 589:17, 590:9, 590:13, 590:14, 591:7, 591:9, 591:14, 591:21, 592:13, 592:15, 592:16, 592:18, 592:20, 592:21, 593:3, 593:4, 593:6, 596:1, 596:10, 599:25, 600:18, 600:23, 600:24, 601:20, 601:21, 601:22, 601:23, 601:24, 601:25, 602:13, 602:15, 602:17, 602:18, 602:25, 603:2, 603:6, 603:10, 603:21, 604:9, 604:12, 604:14, 604:16, 605:8, 605:9, 605:24, 606:4, 606:9, 606:15, 606:17, 606:22, 606:23, 607:3, 607:13, 608:11, 608:13, 608:17, 608:18, 608:19, 608:20, 609:4, 610:1, 610:8, 610:11,</p>	<p>610:20, 610:24, 610:25, 611:18, 611:19, 611:20, 612:13, 613:8, 613:19 MS [88] - 509:19, 509:20, 509:24, 510:18, 529:23, 530:15, 531:4, 531:14, 535:23, 535:25, 540:9, 541:6, 542:14, 543:13, 551:4, 554:23, 555:8, 555:12, 555:15, 555:16, 556:11, 556:16, 558:12, 558:15, 559:18, 559:21, 559:25, 560:3, 561:13, 564:16, 565:15, 565:18, 566:4, 566:7, 569:7, 569:10, 569:11, 569:12, 569:13, 569:23, 570:4, 571:7, 571:9, 571:17, 572:4, 572:14, 572:18, 574:15, 575:15, 575:22, 575:23, 575:25, 576:11, 581:17, 582:1, 582:3, 582:9, 582:12, 583:13, 583:14, 584:20, 584:24, 585:5, 585:10, 585:21, 585:23, 586:11, 588:11, 591:8, 591:10, 591:16, 592:12, 592:14, 596:3, 600:15, 600:20, 602:24, 605:10, 605:14, 606:7, 606:15, 609:9, 610:14, 611:21, 612:12, 612:22, 613:1, 613:21 Mt [5] - 506:9, 507:12, 509:8, 512:18, 512:19 Mud [1] - 527:25 mud [1] - 528:13 multiple [2] - 592:25, 609:10 multiuse [1] - 536:19 must [3] - 517:19, 518:16, 520:23</p>	<p>509:16, 538:7, 559:19 named [2] - 513:21, 614:11 names [3] - 514:17, 514:22 nation [2] - 510:17, 514:4 Nation [7] - 510:22, 512:3, 516:10, 521:20, 522:16, 530:4, 530:5 National [4] - 512:13, 512:24, 521:7, 539:20 Nations [1] - 507:22 natural [5] - 511:24, 517:14, 517:19, 539:19, 539:20 Natural [2] - 507:9, 513:17 naturally [2] - 544:3, 586:6 nature [6] - 528:9, 544:23, 562:19, 564:5, 569:1, 607:14 nature's [1] - 537:12 navigation [1] - 514:18 near [2] - 553:20, 573:3 nearby [1] - 554:6 nearly [1] - 517:23 necessarily [2] - 567:11, 597:11 need [21] - 520:12, 542:23, 543:8, 548:4, 549:14, 557:11, 562:6, 562:16, 566:24, 567:2, 567:16, 569:19, 569:25, 584:2, 584:8, 588:2, 589:24, 590:5, 592:18, 600:21, 612:14 needed [7] - 525:10, 539:2, 555:6, 555:7, 585:25, 588:22, 603:17 needs [1] - 595:15 negative [2] - 535:7, 578:12 neighbor [1] - 541:2 neutralization [1] - 585:24 neutralize [2] - 528:24, 532:15 neutralizing [7] - 533:4, 546:20, 546:24, 549:15, 586:5, 590:22, 591:22 never [2] - 527:20,</p>	<p>535:5 new [7] - 539:4, 573:6, 574:22, 579:20, 595:23, 608:5, 609:17 New [3] - 507:24, 540:25, 556:2 Newry [1] - 573:3 next [7] - 536:7, 562:1, 562:22, 573:24, 576:16, 577:14, 578:25 nice [2] - 540:24, 541:2 NOAA [3] - 512:24, 521:7, 522:18 none [1] - 561:23 Nonprofits [1] - 507:22 normal [1] - 550:9 northern [2] - 538:23, 539:22 NOTARY [1] - 614:18 Notary [3] - 506:17, 509:2, 614:3 note [5] - 514:9, 523:23, 584:18, 604:16, 605:10 noted [1] - 565:20 nothing [3] - 510:9, 544:13, 591:19 noting [2] - 551:25, 552:21 November [4] - 611:2, 611:4, 611:8, 611:10 number [13] - 537:17, 558:16, 565:1, 565:24, 566:3, 567:3, 567:12, 567:19, 569:17, 571:19, 591:11, 595:9, 609:22 numbers [3] - 529:15, 531:10, 582:16 nutrition [1] - 515:17 NY [1] - 507:24</p>	<p>606:20, 606:24, 606:25, 607:1, 607:23, 608:22, 609:2, 610:2, 610:3 objections [2] - 608:14, 610:22 objective [1] - 548:25 objects [1] - 608:10 observant [1] - 519:4 observations [1] - 567:23 observed [2] - 515:25, 546:25 obviously [6] - 533:23, 536:2, 571:24, 590:21, 592:8, 604:9 occasions [1] - 591:11 occur [3] - 548:21, 566:12, 598:17 occurred [1] - 514:20 occurring [1] - 549:19 occurs [1] - 548:11 October [4] - 506:12, 509:4, 611:14, 614:14 odors [1] - 516:2 OF [8] - 506:1, 543:12, 551:3, 556:15, 558:14, 561:12, 593:5, 596:9 offer [3] - 574:25, 575:3, 610:21 Office [2] - 507:7, 507:8 officer [1] - 509:14 once [7] - 522:8, 544:4, 568:15, 568:19, 569:1, 571:23, 598:17 one [47] - 510:3, 513:20, 521:19, 523:15, 526:22, 527:15, 533:23, 534:9, 535:20, 537:1, 541:9, 544:21, 545:16, 546:9, 548:16, 551:16, 552:7, 552:9, 556:25, 558:21, 560:13, 561:10, 565:16, 566:9, 572:25, 579:15, 586:11, 588:14, 590:15, 592:1, 592:2, 595:8, 597:16, 598:5, 598:20, 598:21,</p>
	N		O	
			<p>object [7] - 543:4, 605:11, 605:17, 606:7, 608:13, 609:9, 610:12 objected [3] - 605:13, 606:16, 610:16 objection [9] -</p>	

<p>598:24, 599:2, 600:1, 601:1, 602:19, 602:20, 603:16, 604:7, 607:5, 611:18, 613:12</p> <p>One ^[1] - 507:14</p> <p>one-day ^[1] - 552:7</p> <p>one-week ^[1] - 552:9</p> <p>ones ^[4] - 517:17, 529:3, 610:12, 610:13</p> <p>ongoing ^[1] - 530:4</p> <p>open ^[13] - 534:1, 536:15, 548:14, 551:12, 551:17, 558:21, 558:23, 559:4, 585:19, 605:2, 605:19, 606:3, 611:1</p> <p>open-pit ^[1] - 585:19</p> <p>opening ^[3] - 543:24, 544:5, 544:8</p> <p>operate ^[2] - 538:12, 539:12</p> <p>operated ^[3] - 538:11, 559:17, 560:5</p> <p>operating ^[7] - 534:16, 561:23, 561:24, 572:3, 574:12, 575:6, 605:12</p> <p>operation ^[13] - 543:20, 544:19, 553:13, 559:12, 561:19, 570:22, 572:3, 574:17, 587:3, 587:13, 589:11, 590:19, 591:3</p> <p>operations ^[3] - 558:25, 586:25, 588:2</p> <p>operator ^[1] - 574:9</p> <p>opinion ^[3] - 541:21, 541:24, 542:23</p> <p>opportunities ^[2] - 530:7, 538:23</p> <p>opportunity ^[10] - 530:13, 543:1, 543:3, 605:6, 605:15, 606:25, 609:13, 609:19, 609:24, 610:2</p> <p>opposed ^[2] - 578:6, 578:8</p> <p>opposition ^[3] - 577:3, 578:22, 605:6</p> <p>optimum ^[1] - 531:17</p> <p>order ^[11] - 509:6, 513:5, 527:10, 533:5, 545:3, 584:2, 588:22, 592:1, 606:20, 608:23, 610:10</p> <p>ore ^[28] - 519:6, 520:18, 543:24, 547:3, 548:5, 549:1,</p>	<p>549:3, 549:22, 551:21, 552:9, 552:16, 556:9, 558:8, 559:3, 559:9, 564:4, 565:7, 565:21, 565:22, 566:12, 567:14, 567:15, 567:17, 573:8, 594:24, 595:3, 595:11</p> <p>orebody ^[9] - 547:3, 547:9, 547:17, 563:12, 564:7, 564:8, 568:10, 595:14, 601:1</p> <p>organization ^[1] - 576:13</p> <p>original ^[2] - 591:23, 603:23</p> <p>otherwise ^[2] - 543:4, 592:7</p> <p>Ouellette ^[6] - 508:8, 544:7, 547:19, 551:5, 564:17, 569:8</p> <p>OUELLETTE ^[17] - 551:3, 554:25, 555:10, 555:13, 559:23, 569:20, 570:3, 570:5, 571:8, 571:10, 571:20, 572:13, 572:15, 590:14, 591:14, 591:21, 592:13</p> <p>ourselves ^[2] - 511:2, 584:7</p> <p>outcome ^[1] - 614:11</p> <p>outdated ^[1] - 528:12</p> <p>outlined ^[1] - 563:12</p> <p>outside ^[5] - 544:10, 544:13, 556:2, 565:22, 567:17</p> <p>outstanding ^[4] - 513:15, 517:14, 528:9, 528:18</p> <p>overall ^[2] - 590:17, 595:13</p> <p>overexcavate ^[1] - 549:4</p> <p>overlooked ^[1] - 539:18</p> <p>overly ^[1] - 551:19</p> <p>overrule ^[1] - 609:8</p> <p>oversee ^[1] - 511:11</p> <p>overseeing ^[1] - 510:21</p> <p>overview ^[1] - 556:1</p> <p>own ^[2] - 575:1, 599:16</p> <p>owned ^[1] - 538:11</p> <p>owns ^[1] - 542:5</p> <p>oxidation ^[4] - 548:20, 550:15,</p>	<p>550:17, 560:14</p> <p>oxygen ^[7] - 516:2, 518:6, 518:10, 535:10, 548:19, 560:13, 560:17</p> <hr/> <p style="text-align: center;">P</p> <hr/> <p>p.m ^[1] - 611:14</p> <p>pad ^[5] - 552:9, 556:9, 556:10, 587:16, 587:20</p> <p>PAG ^[3] - 546:24, 548:5, 565:7</p> <p>PAGE ^[1] - 508:2</p> <p>Page ^[1] - 601:16</p> <p>page ^[1] - 601:17</p> <p>Panawahpskewi ^[2] - 511:14, 513:18</p> <p>panel ^[2] - 542:17, 557:3</p> <p>paper ^[2] - 534:11, 590:6</p> <p>paperwork ^[1] - 542:13</p> <p>par ^[1] - 525:19</p> <p>parameter ^[1] - 589:5</p> <p>parcel ^[3] - 537:13, 539:13, 539:16</p> <p>Park ^[1] - 512:13</p> <p>parlay ^[1] - 573:8</p> <p>part ^[23] - 516:12, 533:23, 534:22, 537:4, 537:13, 541:11, 543:23, 545:23, 561:9, 562:22, 568:25, 577:13, 580:7, 581:25, 587:5, 589:10, 590:16, 590:23, 599:15, 601:21, 605:16, 607:14, 607:19</p> <p>partially ^[1] - 516:7</p> <p>particular ^[3] - 562:2, 570:23, 601:16</p> <p>particularly ^[2] - 577:3, 610:18</p> <p>parties ^[5] - 605:19, 605:24, 608:21, 610:3, 611:6</p> <p>partner ^[3] - 521:20, 530:7, 574:14</p> <p>partners ^[1] - 598:24</p> <p>parts ^[4] - 526:23, 547:11, 547:12, 587:6</p> <p>pass ^[1] - 576:15</p> <p>Passamaquoddy ^[1] - 511:20</p>	<p>passed ^[1] - 583:24</p> <p>passion ^[1] - 575:14</p> <p>past ^[6] - 515:24, 516:5, 527:1, 537:10, 538:25, 550:24</p> <p>path ^[1] - 573:23</p> <p>Patten ^[9] - 519:8, 520:14, 538:9, 538:11, 538:16, 538:18, 539:1, 539:17</p> <p>patten ^[1] - 538:15</p> <p>pay ^[2] - 537:23, 537:24</p> <p>paying ^[1] - 600:8</p> <p>payment ^[1] - 600:4</p> <p>PCBs ^[2] - 515:11, 527:4</p> <p>PEA ^[23] - 562:11, 562:13, 562:15, 563:5, 563:23, 563:24, 564:5, 568:15, 568:23, 569:1, 580:16, 580:19, 581:2, 581:10, 582:5, 601:3, 601:9, 601:10, 601:14, 601:15, 601:18, 602:11, 603:13</p> <p>peak ^[1] - 512:20</p> <p>pedestrian ^[1] - 555:6</p> <p>penalties ^[1] - 600:8</p> <p>pencil ^[1] - 590:6</p> <p>Pennsylvania ^[2] - 529:1, 529:19</p> <p>Penob ^[1] - 524:3</p> <p>Penobscot ^[53] - 509:18, 510:17, 510:21, 510:24, 511:14, 511:20, 512:3, 512:5, 512:11, 512:17, 513:2, 513:14, 513:15, 513:18, 513:23, 513:24, 514:3, 514:4, 514:12, 515:2, 515:15, 515:20, 515:21, 515:23, 516:10, 516:22, 517:1, 517:6, 521:11, 521:18, 521:19, 521:20, 522:5, 522:16, 522:23, 522:25, 523:3, 523:4, 523:5, 523:20, 523:22, 524:6, 527:2, 529:25, 530:4, 530:5, 531:24, 532:7, 534:9, 538:24, 539:22</p>	<p>Penobscot's ^[1] - 515:6</p> <p>Penobscots ^[1] - 511:16</p> <p>people ^[35] - 511:15, 511:17, 511:18, 513:6, 513:25, 514:6, 514:19, 526:15, 526:17, 526:20, 527:15, 536:24, 538:20, 540:13, 540:22, 569:17, 570:24, 571:19, 572:2, 573:21, 575:9, 575:11, 577:8, 583:6, 583:8, 583:21, 586:16, 586:18, 587:19, 592:21, 601:8, 601:9, 604:7, 604:14</p> <p>people's ^[2] - 515:14, 535:4</p> <p>per ^[4] - 513:9, 513:11, 559:3, 568:14</p> <p>percent ^[13] - 515:14, 548:2, 563:22, 564:6, 564:11, 579:23, 591:4, 595:8, 602:10, 602:11</p> <p>perfect ^[1] - 542:14</p> <p>perform ^[1] - 539:10</p> <p>perhaps ^[2] - 573:23, 577:11</p> <p>period ^[11] - 525:18, 548:14, 548:22, 551:13, 570:15, 571:1, 572:3, 572:18, 573:1, 606:12, 608:21</p> <p>permit ^[7] - 534:24, 570:9, 574:5, 579:10, 580:3, 580:6, 583:6</p> <p>permits ^[3] - 511:7, 534:3, 534:23</p> <p>permitting ^[3] - 573:10, 579:20, 598:18</p> <p>perpetual ^[1] - 571:21</p> <p>person ^[2] - 539:9, 614:10</p> <p>personally ^[3] - 541:10, 541:18, 575:1</p> <p>persons ^[1] - 510:6</p> <p>perspective ^[1] - 559:10</p> <p>pertained ^[3] - 531:17, 564:23, 577:23</p> <p>pertains ^[3] - 565:1,</p>
--	--	--	--	--

<p>566:3, 577:23 Peru [1] - 587:11 peruse [1] - 536:16 Peter [2] - 509:18, 593:1 petition [2] - 509:7, 551:23 Petition [1] - 506:6 pH [12] - 524:18, 524:19, 524:23, 525:12, 526:2, 529:2, 529:10, 531:16, 531:23, 533:1, 556:18, 556:25 pharmacist [1] - 538:14 phase [4] - 562:1, 570:14, 570:18, 573:24 Phone [1] - 506:25 photograph [4] - 523:12, 533:14, 553:23 photographs [7] - 553:25, 554:3, 554:4, 554:5, 555:19, 555:22, 564:18 photos [2] - 521:1, 522:2 physical [1] - 521:13 Pickett [20] - 506:10, 509:9, 512:22, 527:24, 539:4, 541:8, 545:12, 556:22, 557:5, 557:13, 557:22, 558:4, 558:9, 560:9, 561:3, 569:15, 573:5, 579:6, 595:2, 596:8 picks [1] - 535:5 picture [3] - 555:18, 555:25, 556:3 piece [1] - 568:19 pile [1] - 587:23 piles [1] - 559:4 pink [1] - 522:6 Piscataquis [1] - 509:13 pit [4] - 558:21, 558:23, 559:4, 585:19 place [14] - 511:15, 514:21, 514:23, 526:16, 527:3, 534:2, 536:21, 540:24, 546:2, 550:8, 550:18, 550:23, 557:11, 588:5 places [8] - 514:16, 514:21, 521:2, 527:9, 528:2, 532:18, 547:25, 556:22</p>	<p>placing [3] - 546:14, 560:15, 561:11 plan [5] - 549:13, 563:13, 566:21, 589:10, 591:23 planning [1] - 510:6 PLANNING [1] - 506:2 Planning [6] - 507:2, 507:3, 509:7, 509:12, 509:21, 611:12 plants [1] - 515:1 plastic [2] - 587:16, 587:19 playbook [1] - 588:8 playground [1] - 536:23 Pleasant [6] - 521:1, 527:25, 528:13, 556:23, 557:6, 557:25 plus [4] - 549:11, 567:23, 599:18, 602:9 plywood [1] - 538:18 PO [2] - 506:24, 507:19 point [14] - 546:12, 549:8, 562:22, 565:12, 570:22, 576:11, 576:21, 578:1, 580:8, 588:16, 590:5, 598:20, 607:7, 613:8 pointed [1] - 535:19 pollutants [1] - 519:14 pollution [2] - 515:16, 526:6 Pond [6] - 521:1, 527:25, 556:23, 557:5, 557:13, 557:22 pond [1] - 558:9 ponds [9] - 511:1, 512:14, 526:12, 527:18, 527:19, 527:20, 532:17, 532:22, 558:8 population [4] - 521:4, 538:19, 538:21, 538:22 populations [5] - 526:11, 526:13, 526:14, 527:13, 528:5 portal [1] - 556:9 portion [4] - 545:23, 549:10, 552:14, 590:20 portions [1] - 513:13 Portland [3] - 507:14, 507:15,</p>	<p>591:15 position [2] - 510:20, 530:2 positive [2] - 534:21, 535:2 possibility [2] - 546:19, 598:17 possible [5] - 545:10, 553:20, 557:12, 572:19, 586:4 possibly [1] - 564:25 post [3] - 533:10, 605:17, 611:6 post-hearing [2] - 605:17, 611:6 potential [21] - 511:9, 528:17, 539:21, 545:24, 546:19, 546:23, 549:6, 549:15, 552:12, 552:13, 553:1, 557:10, 557:15, 557:25, 573:1, 573:7, 575:9, 584:22, 587:3, 590:4, 591:22 potentially [1] - 539:5 power [1] - 521:25 practical [1] - 588:1 practiced [1] - 515:8 practices [4] - 515:5, 527:8, 586:13, 600:9 PRAY [1] - 509:18 Pray [1] - 509:18 pre [1] - 533:10 precip [1] - 587:21 precipitate [1] - 525:3 precipitation [1] - 587:7 predict [1] - 580:20 predicted [1] - 602:9 prediction [2] - 567:9, 603:25 prefiled [4] - 523:24, 524:1, 594:2, 599:11 preliminary [1] - 562:20 premium [1] - 598:17 prepared [2] - 593:2, 609:5 presence [2] - 544:17, 569:14 present [1] - 515:12 presentation [2] - 540:3, 545:17 presented [1] - 564:24 presents [1] - 578:13</p>	<p>pressure [3] - 544:8, 544:10 pretty [5] - 548:21, 549:17, 558:2, 581:8, 602:8 prevent [4] - 545:11, 586:13, 587:23, 588:4 prevention [1] - 560:20 prevents [1] - 560:17 previous [2] - 534:18, 564:2 previously [1] - 613:10 price [2] - 579:12, 580:17 priced [1] - 581:5 primarily [1] - 574:16 primary [1] - 592:2 principle [1] - 545:1 probability [1] - 595:4 problem [1] - 598:15 problematic [2] - 610:17, 610:18 problems [2] - 515:25, 534:5 procedural [2] - 605:10, 608:23 procedure [1] - 606:20 proceed [1] - 563:17 process [9] - 525:25, 526:3, 549:8, 573:11, 573:13, 573:17, 587:13, 598:19, 607:22 processed [1] - 559:3 processing [2] - 548:9, 588:23 produce [1] - 594:20 produces [1] - 594:20 product [1] - 552:1 program [5] - 510:16, 511:11, 567:13, 589:22, 590:2 Program [1] - 507:23 programs [1] - 588:7 progress [2] - 580:1, 584:3 progressed [1] - 583:3 progression [1] - 580:11 prohibit [1] - 520:7 prohibited [1] - 520:7 prohibits [1] -</p>	<p>519:13 Project [1] - 521:20 project [19] - 521:21, 538:2, 539:5, 545:12, 553:6, 553:20, 561:20, 569:16, 574:23, 583:2, 584:1, 596:25, 597:19, 598:23, 601:16, 602:23, 604:20, 612:21, 613:17 projection [1] - 590:11 projections [5] - 567:8, 577:20, 578:5, 580:15, 590:10 projects [5] - 537:18, 561:16, 573:9, 583:3, 597:3 promises [1] - 599:4 proof [1] - 610:21 proper [1] - 561:11 properties [8] - 546:10, 546:17, 548:24, 561:22, 561:23, 567:21, 567:25, 579:4 property [5] - 547:15, 561:25, 562:9, 604:23, 604:24 proposal [2] - 509:8, 610:7 propose [1] - 608:20 proposed [7] - 512:10, 517:24, 518:2, 519:7, 520:18, 524:13, 527:24 proposing [3] - 551:11, 593:11, 593:20 proprietary [1] - 582:20 protect [3] - 513:6, 516:14, 528:6 protection [1] - 513:16 Protection [1] - 513:17 protective [1] - 518:7 protects [1] - 512:6 prove [1] - 538:2 proven [1] - 560:18 provide [12] - 564:17, 568:1, 581:19, 593:9, 600:21, 602:5, 605:20, 610:22, 613:2, 613:3, 613:6 provided [6] - 554:1, 555:20, 593:23,</p>
--	---	--	---	---

<p>605:24, 608:2, 610:2 provides [1] - 514:24 providing [2] - 572:7, 608:25 public [12] - 509:6, 574:21, 578:17, 581:18, 597:12, 605:21, 606:3, 607:20, 611:2, 611:5, 611:12, 611:14 PUBLIC [1] - 614:18 Public [3] - 506:17, 509:2, 614:3 publicly [2] - 578:2, 612:1 pull [1] - 545:15 pulled [1] - 576:9 pulleys [3] - 554:11, 554:18 pulling [1] - 571:13 pumped [1] - 545:3 puppets [1] - 544:1 purchase [1] - 521:21 purchased [1] - 588:17 purple [1] - 517:10 purpose [1] - 591:1 purposes [1] - 558:24 pushing [1] - 575:25 put [16] - 524:11, 530:23, 534:1, 560:11, 561:2, 564:13, 572:4, 575:2, 578:23, 580:7, 580:23, 590:6, 591:12, 597:22, 600:19, 609:13 putting [2] - 534:24, 605:4 pyrite [2] - 548:1, 548:2</p>	<p>557:22 quandary [1] - 584:7 quarter [3] - 597:1, 597:24, 613:11 quarterlies [1] - 596:22 quarters [3] - 578:18, 596:17, 596:19 Quebec [1] - 559:15 quest [1] - 574:18 questioning [2] - 584:22, 592:24 questions [20] - 530:10, 530:14, 540:6, 542:21, 543:17, 556:17, 558:16, 561:14, 563:6, 563:20, 585:6, 585:8, 596:2, 596:12, 603:14, 604:13, 604:18, 606:11, 607:12, 609:12 Questions [3] - 508:4, 508:6, 508:11 quick [2] - 554:23, 594:6 quickly [1] - 595:18 quite [9] - 535:5, 537:10, 538:4, 540:20, 568:18, 573:18, 573:22, 575:13, 580:24 quote [2] - 528:4, 540:11 quoted [1] - 581:6 quotes [2] - 581:3, 581:4</p>	<p>rapid [1] - 548:11 rate [2] - 513:8, 513:12 rates [1] - 581:7 rather [2] - 528:17, 610:5 re [2] - 522:3, 601:5 reach [1] - 550:24 reached [1] - 580:5 reaction [2] - 548:20, 548:22 read [1] - 536:18 reading [1] - 604:10 ready [2] - 580:8, 588:9 real [4] - 579:9, 581:3, 581:4, 584:15 reality [1] - 534:13 realize [2] - 589:2, 589:7 really [18] - 522:7, 522:8, 525:5, 526:22, 528:1, 532:13, 534:6, 537:6, 538:22, 541:5, 545:8, 567:16, 575:19, 575:20, 576:21, 579:22, 580:20, 604:18 rearing [1] - 528:8 reason [2] - 550:2, 562:21 reasons [1] - 546:9 rebuttal [1] - 611:4 receiving [6] - 517:22, 518:17, 520:7, 520:13, 520:22, 525:13 recent [5] - 523:6, 528:15, 528:16, 581:20, 613:2 recently [1] - 533:15 recess [2] - 536:5, 592:22 reclamation [1] - 571:11 recognize [3] - 601:2, 602:1, 602:19 recollection [2] - 565:24, 613:21 recommend [1] - 527:15 recommendations [1] - 516:13 record [22] - 543:11, 575:6, 577:10, 581:21, 581:25, 582:15, 597:17, 600:13, 600:16, 600:19, 601:20, 605:19, 605:23,</p>	<p>607:5, 607:9, 607:18, 608:16, 611:1, 611:9, 612:6, 613:9, 614:8 records [1] - 607:20 recoveries [1] - 580:24 recovery [2] - 523:10, 524:8 RECROSS [2] - 593:5, 596:9 recross [4] - 543:2, 543:6, 609:16, 610:18 RECROSS-EXAMINATION [2] - 593:5, 596:9 recruiting [1] - 570:13 red [1] - 512:7 red/orange [1] - 525:2 redirect [11] - 508:7, 508:8, 508:10, 542:12, 542:15, 543:1, 543:5, 585:24, 609:16, 609:21, 610:19 REDIRECT [5] - 543:12, 551:3, 556:15, 558:14, 561:12 Redirect [1] - 508:9 REDIRECT-EXAMINATION [5] - 543:12, 551:3, 556:15, 558:14, 561:12 redirect-examination [3] - 508:7, 508:8, 508:10 Redirect-Examination [1] - 508:9 redoing [1] - 571:14 reduce [1] - 526:4 reduced [2] - 571:19, 614:6 reexposed [1] - 552:15 referred [2] - 581:8, 582:6 referring [1] - 599:14 refers [1] - 511:18 reflects [1] - 524:6 regard [3] - 568:2, 597:8, 602:1 regardless [2] - 546:22, 563:4 region [3] - 537:4, 539:22, 577:17 regulation [2] -</p>	<p>564:1, 564:3 regulations [4] - 511:8, 539:8, 539:10, 584:4 rejuvenate [1] - 539:22 related [4] - 553:10, 553:15, 578:23, 579:8 relation [1] - 570:6 relationship [2] - 511:23, 514:2 relative [4] - 514:5, 514:6, 568:6, 572:2 relatively [4] - 552:2, 595:9, 610:8, 612:10 relevant [1] - 607:23 relicensing [1] - 511:7 relies [1] - 528:11 relying [1] - 595:22 remain [2] - 552:5, 611:1 remarkable [2] - 516:6, 573:22 remember [7] - 525:20, 535:13, 535:15, 558:22, 560:12, 598:14 remind [1] - 611:1 reminder [1] - 510:1 removal [2] - 521:21, 521:22 removals [1] - 522:4 remove [2] - 548:25, 549:2 removed [3] - 548:7, 568:7, 595:3 rendered [1] - 529:15 repeat [1] - 559:19 report [2] - 529:1, 581:12 reported [1] - 614:5 reporter [2] - 510:2, 599:24 Reporter [1] - 614:19 represent [2] - 509:13, 518:21 representation [1] - 545:19 representativeness [1] - 567:7 represents [2] - 524:7, 566:17 reproducing [1] - 526:11 request [2] - 542:15, 542:17 requesting [1] - 593:18</p>
Q	R			
<p>Q-10 [1] - 597:15 qualified [1] - 603:19 qualify [5] - 562:16, 564:14, 597:23, 601:12 qualifying [2] - 601:13, 601:15 quality [15] - 510:21, 510:23, 510:24, 511:6, 511:7, 515:23, 516:8, 516:9, 517:18, 518:17, 525:15, 530:5, 534:2, 557:14,</p>	<p>raceway [1] - 530:25 rain [1] - 532:18 rainfall [1] - 587:14 raise [3] - 510:7, 578:25, 579:13 raised [3] - 552:11, 579:1, 579:2 ramp [9] - 543:23, 544:5, 545:21, 546:2, 546:7, 546:11, 547:1, 549:20, 571:1 ramping [1] - 570:19 Range [1] - 537:14 range [8] - 525:12, 529:2, 529:3, 529:15, 531:16, 531:18, 537:15, 556:25 ranging [1] - 523:7</p>			

<p>require [6] - 517:18, 518:10, 518:15, 555:8, 564:9, 564:10</p> <p>required [4] - 519:25, 539:7, 570:6, 570:8</p> <p>requirement [1] - 574:13</p> <p>requirements [5] - 546:13, 555:11, 566:9, 574:11, 601:3</p> <p>research [2] - 565:2, 594:5</p> <p>researched [1] - 581:6</p> <p>reservation [3] - 512:4, 512:5, 515:3</p> <p>reserve [1] - 515:2</p> <p>reserves [1] - 601:12</p> <p>residential [1] - 583:14</p> <p>resolution [1] - 514:7</p> <p>resource [2] - 523:25, 601:7</p> <p>Resource [2] - 507:9, 513:17</p> <p>Resources [1] - 522:19</p> <p>resources [10] - 510:16, 511:9, 517:15, 523:25, 524:5, 539:19, 539:24, 558:19, 563:6, 563:21</p> <p>respiration [1] - 525:1</p> <p>respond [5] - 605:16, 606:10, 606:13, 606:25, 608:14</p> <p>response [3] - 596:5, 611:5, 612:8</p> <p>responsibly [1] - 539:24</p> <p>responsive [2] - 542:20, 605:20</p> <p>rest [1] - 605:5</p> <p>restoration [1] - 521:15</p> <p>Restoration [1] - 521:19</p> <p>restore [3] - 521:17, 522:20, 524:5</p> <p>restrict [1] - 613:19</p> <p>restrictive [1] - 527:12</p> <p>results [2] - 556:25, 603:3</p> <p>resumed [2] - 536:6, 592:23</p>	<p>return [3] - 523:2, 523:21, 558:12</p> <p>returned [1] - 523:9</p> <p>returning [1] - 523:14</p> <p>returns [2] - 523:7, 523:11</p> <p>revegetating [1] - 571:14</p> <p>revenue [1] - 579:2</p> <p>revenues [1] - 580:22</p> <p>review [3] - 555:10, 596:19, 606:18</p> <p>reviewed [3] - 523:24, 578:19, 596:17</p> <p>rezone [2] - 584:2, 584:8</p> <p>rezoned [1] - 539:13</p> <p>rezoning [5] - 509:8, 538:3, 570:7, 579:11, 584:14</p> <p>right-hand [3] - 523:12, 523:18, 545:18</p> <p>rights [1] - 515:3</p> <p>risk [5] - 524:12, 543:19, 557:8, 557:10, 578:25</p> <p>risks [2] - 549:25, 562:7</p> <p>river [25] - 513:16, 513:21, 514:3, 514:4, 514:5, 514:8, 514:10, 514:15, 514:24, 516:1, 516:3, 521:23, 522:10, 523:17, 523:19, 523:21, 530:16, 530:17, 530:21, 531:23, 531:24, 534:25, 535:9, 535:17</p> <p>River [11] - 512:5, 512:16, 513:23, 514:3, 515:15, 516:22, 521:11, 521:12, 521:19, 527:2, 531:25</p> <p>river-like [1] - 521:23</p> <p>riverine [1] - 514:1</p> <p>rivers [5] - 526:25, 529:18, 534:1, 534:14, 539:19</p> <p>road [1] - 588:24</p> <p>rock [35] - 545:23, 546:3, 546:25, 547:7, 547:15, 548:18, 549:19, 552:2, 556:9, 559:4, 561:4, 561:6,</p>	<p>562:25, 566:11, 566:12, 566:18, 566:21, 566:22, 566:25, 567:1, 567:4, 567:17, 567:21, 568:7, 568:18, 568:22, 568:24, 585:25, 586:23, 587:8, 587:10, 587:23, 595:4, 595:10</p> <p>rockfill [3] - 549:10, 591:1, 591:2</p> <p>rocks [3] - 511:15, 590:15, 595:8</p> <p>Ron [2] - 508:10, 589:18</p> <p>RON [3] - 561:12, 593:5, 596:9</p> <p>room [1] - 565:6</p> <p>ropes [1] - 554:11</p> <p>roughly [5] - 516:21, 552:25, 568:13, 570:25, 591:4</p> <p>Route [3] - 537:1, 541:19, 542:2</p> <p>routed [1] - 514:2</p> <p>routes [1] - 537:2</p> <p>rule [1] - 610:4</p> <p>rules [4] - 539:14, 576:6, 576:14, 576:16</p> <p>ruling [2] - 545:1, 608:15</p> <p>run [9] - 521:17, 522:5, 522:11, 523:5, 523:11, 559:2, 568:13, 592:8, 602:7</p> <p>running [2] - 535:4, 580:18</p> <p>runs [2] - 545:20, 558:7</p> <p>rural [1] - 538:15</p> <p>Russell [1] - 507:18</p>	<p>salmonid [2] - 518:7, 525:6</p> <p>salmonids [2] - 518:10, 528:5</p> <p>saltwater [3] - 525:19, 525:24, 526:5</p> <p>sample [7] - 556:25, 565:9, 565:10, 568:11, 568:13, 568:14, 568:20</p> <p>samples [16] - 540:6, 546:8, 556:22, 565:25, 566:11, 566:18, 566:20, 566:25, 567:2, 567:3, 567:12, 567:13, 567:19, 568:6, 568:16, 568:24</p> <p>sampling [1] - 510:24</p> <p>samplings [2] - 564:23, 565:1</p> <p>saw [2] - 510:4, 550:11</p> <p>scale [1] - 583:11</p> <p>scattered [1] - 512:8</p> <p>SCC [1] - 597:14</p> <p>scenario [2] - 557:11, 557:13</p> <p>schedule [4] - 536:1, 536:3, 569:18, 571:23</p> <p>scheduled [1] - 542:16</p> <p>School [2] - 506:18, 509:2</p> <p>scope [2] - 558:3, 609:20</p> <p>scroll [1] - 556:3</p> <p>sea [5] - 521:17, 522:5, 522:11, 523:11, 523:16</p> <p>sea-run [3] - 522:5, 522:11, 523:11</p> <p>seafood [1] - 515:13</p> <p>seal [1] - 614:14</p> <p>sealants [1] - 587:22</p> <p>season [1] - 518:13</p> <p>seated [1] - 510:11</p> <p>second [6] - 517:17, 554:14, 556:3, 604:6, 604:8, 613:4</p> <p>section [3] - 566:16, 609:2, 611:14</p> <p>sections [3] - 517:3, 521:9, 521:10</p> <p>securities [4] - 596:20, 597:11, 601:3, 613:17</p> <p>Securities [1] - 597:7</p> <p>security [1] - 612:20</p>	<p>SEDAR [4] - 597:9, 612:3, 612:4, 612:21</p> <p>sediment [1] - 524:24</p> <p>see [30] - 517:23, 518:3, 518:4, 519:19, 520:9, 520:14, 522:3, 522:6, 523:13, 533:6, 535:16, 539:2, 540:20, 541:1, 555:1, 568:18, 568:19, 568:25, 573:12, 573:25, 574:8, 574:15, 577:22, 578:4, 578:21, 580:1, 581:24, 582:16, 604:25, 608:11</p> <p>seeing [4] - 512:9, 534:6, 535:17, 540:13</p> <p>seepage [1] - 561:8</p> <p>segment [1] - 521:4</p> <p>segments [5] - 513:16, 516:9, 519:21, 520:4, 556:5</p> <p>self [1] - 526:11</p> <p>self-reproducing [1] - 526:11</p> <p>send [3] - 531:6, 531:8, 568:11</p> <p>sense [2] - 553:19, 606:19</p> <p>sensitive [3] - 518:11, 525:18, 527:12</p> <p>sent [1] - 593:18</p> <p>sentence [1] - 560:3</p> <p>sequence [1] - 591:25</p> <p>served [1] - 510:20</p> <p>Service [3] - 512:25, 521:8, 522:18</p> <p>session [5] - 509:6, 509:14, 605:22, 610:13, 611:11</p> <p>set [8] - 539:10, 543:14, 550:11, 553:12, 571:2, 571:5, 589:25, 602:7</p> <p>sets [4] - 553:18, 553:21, 570:17, 571:15</p> <p>seven [4] - 565:19, 567:13, 567:20, 568:16</p> <p>several [3] - 551:15, 586:17, 607:9</p> <p>sewers [1] - 534:1</p> <p>shad [1] - 523:16</p> <p>shaft [1] - 554:12</p> <p>share [1] - 581:13</p>
		S		
		<p>sad [1] - 540:19</p> <p>sales [1] - 537:11</p> <p>salmon [24] - 512:25, 515:17, 515:21, 518:8, 521:4, 521:16, 521:17, 522:11, 522:20, 522:22, 523:2, 523:6, 523:10, 523:16, 524:2, 524:6, 524:8, 525:11, 525:17, 525:21, 526:7, 528:19, 530:21, 531:7</p> <p>Salmon [1] - 522:24</p>		

<p>shareholders [3] - 575:2, 575:3, 579:16</p> <p>shares [1] - 579:3</p> <p>sheaves [1] - 554:18</p> <p>shed [1] - 558:7</p> <p>sheet [5] - 577:9, 577:22, 578:11, 582:21, 598:8</p> <p>sheets [1] - 516:1</p> <p>shift [5] - 603:16, 603:17, 604:6, 604:7, 604:8</p> <p>shoot [1] - 531:8</p> <p>short [5] - 526:3, 548:22, 601:24, 606:11, 610:9</p> <p>show [6] - 519:21, 522:2, 532:5, 580:25, 598:7, 604:23</p> <p>showed [2] - 521:8, 530:20</p> <p>showing [1] - 515:4</p> <p>shown [5] - 512:7, 512:12, 516:11, 519:10, 525:16</p> <p>shows [7] - 512:10, 512:11, 512:18, 519:8, 540:11, 552:21</p> <p>shut [2] - 534:11, 536:14</p> <p>shy [1] - 538:21</p> <p>sic [1] - 560:2</p> <p>side [6] - 522:3, 534:21, 558:9, 565:6, 589:11, 607:5</p> <p>sign [1] - 574:5</p> <p>significant [3] - 514:18, 521:16, 533:1</p> <p>significantly [1] - 535:25</p> <p>similar [3] - 536:25, 554:17, 560:9</p> <p>simple [2] - 573:11, 599:6</p> <p>single [3] - 585:19, 588:7, 610:16</p> <p>sit [2] - 536:14, 536:17</p> <p>site [9] - 518:3, 520:18, 527:24, 528:22, 541:11, 558:8, 562:6, 571:15, 600:4</p> <p>sits [1] - 591:20</p> <p>situation [1] - 583:20</p> <p>situations [1] - 584:1</p> <p>six [1] - 612:11</p> <p>size [2] - 579:21, 602:9</p> <p>skill [8] - 535:4,</p>	<p>553:12, 553:18, 553:21, 570:17, 571:2, 571:5, 571:15</p> <p>skips [1] - 554:13</p> <p>slide [2] - 518:20, 551:9</p> <p>slides [2] - 511:25, 515:4</p> <p>slope [1] - 587:18</p> <p>small [15] - 519:10, 525:22, 529:10, 531:13, 538:13, 559:14, 560:21, 566:23, 574:19, 577:4, 578:19, 595:9, 596:18, 610:8, 612:10</p> <p>smaller [5] - 527:9, 531:2, 551:12, 551:15, 587:3</p> <p>smelts [1] - 528:5</p> <p>smolt [1] - 525:19</p> <p>smoltification [1] - 526:1</p> <p>smoothers [1] - 535:11</p> <p>smothers [2] - 525:8, 525:9</p> <p>snow [1] - 532:20</p> <p>so.. [4] - 512:9, 532:15, 535:12, 536:15</p> <p>society [1] - 514:11</p> <p>socioeconomic [6] - 572:5, 575:18, 576:2, 576:10, 577:11, 584:5</p> <p>soil [1] - 557:19</p> <p>Somerset [1] - 509:19</p> <p>sometimes [2] - 575:17, 584:7</p> <p>somewhere [2] - 551:18, 571:2</p> <p>Sorry [1] - 510:18</p> <p>sorry [8] - 511:24, 528:15, 542:11, 575:25, 580:14, 589:6, 593:12, 612:13</p> <p>sort [17] - 514:18, 532:2, 555:25, 557:4, 564:22, 570:13, 570:20, 570:25, 574:19, 590:15, 590:18, 590:21, 591:6, 591:22, 592:6, 593:1, 604:10</p> <p>sounding [1] - 576:19</p> <p>sounds [2] - 572:9, 606:22</p> <p>sour [2] - 586:22,</p>	<p>590:17</p> <p>source [2] - 514:24, 546:24</p> <p>span [1] - 569:25</p> <p>spawning [4] - 518:9, 518:13, 525:10, 528:7</p> <p>speaking [2] - 553:9, 595:18</p> <p>special [2] - 513:3, 513:16</p> <p>specialists [1] - 583:22</p> <p>Species [1] - 521:5</p> <p>species [11] - 515:18, 518:8, 522:12, 522:21, 523:11, 523:14, 525:6, 526:22, 526:24, 527:15, 557:24</p> <p>specific [4] - 551:1, 553:10, 594:24, 613:16</p> <p>specifically [4] - 590:8, 590:24, 590:25, 596:25</p> <p>specifics [1] - 519:5</p> <p>speculative [1] - 601:6</p> <p>spell [1] - 559:21</p> <p>spelling [1] - 560:1</p> <p>spend [2] - 524:16, 562:21</p> <p>spent [5] - 558:22, 562:9, 575:10, 586:19, 598:10</p> <p>spiderweb [1] - 516:19</p> <p>spiel [2] - 584:16, 584:17</p> <p>spills [1] - 511:7</p> <p>spirit [1] - 610:15</p> <p>split [1] - 592:24</p> <p>sport [1] - 526:15</p> <p>spray [1] - 586:22</p> <p>spreading [1] - 587:16</p> <p>spreadsheet [4] - 580:25, 582:5, 582:16, 613:4</p> <p>springtime [1] - 532:19</p> <p>Square [1] - 507:14</p> <p>square [6] - 519:15, 519:24, 519:25, 520:2, 520:3, 520:6</p> <p>squiggly [3] - 543:23, 545:20, 546:2</p> <p>Sr [2] - 506:18, 509:2</p>	<p>Stacie [3] - 585:8, 585:9, 604:21</p> <p>Stacy [1] - 509:20</p> <p>Stacyville [5] - 519:8, 519:9, 519:12, 519:19, 520:5</p> <p>staff [7] - 536:12, 540:8, 575:16, 593:8, 603:15, 604:21, 605:3</p> <p>Staff [3] - 508:4, 508:6, 508:11</p> <p>staff's [1] - 530:13</p> <p>stage [7] - 553:5, 553:9, 562:19, 568:12, 577:15, 578:19, 579:10</p> <p>stages [2] - 518:7, 568:23</p> <p>stand [3] - 510:7, 548:13, 552:9</p> <p>standard [2] - 534:2, 590:12</p> <p>standards [4] - 525:15, 576:1, 576:5, 576:10</p> <p>standpoint [1] - 589:21</p> <p>starch [1] - 538:17</p> <p>start [11] - 531:10, 536:10, 543:15, 544:4, 547:18, 567:20, 568:14, 569:21, 580:6, 589:18, 596:11</p> <p>started [1] - 583:10</p> <p>starting [1] - 571:1</p> <p>state [20] - 512:8, 513:3, 522:17, 526:9, 526:10, 527:18, 527:23, 529:1, 533:21, 537:5, 539:7, 539:11, 550:9, 553:19, 570:21, 571:3, 574:9, 575:8, 599:13, 608:21</p> <p>STATE [1] - 506:1</p> <p>State [6] - 506:18, 507:4, 507:9, 509:3, 512:13, 614:4</p> <p>statement [5] - 578:22, 581:20, 601:14, 601:15, 613:3</p> <p>statements [14] - 568:2, 577:24, 578:3, 578:18, 581:18, 596:13, 596:14, 596:16, 596:24, 597:18, 598:7, 602:20, 613:15</p> <p>states [4] - 528:4,</p>	<p>528:11, 528:13, 529:1</p> <p>States [4] - 523:6, 524:8, 526:9, 597:14</p> <p>Station [2] - 507:4, 507:9</p> <p>stats [1] - 519:17</p> <p>status [1] - 540:11</p> <p>stay [3] - 540:21, 540:24, 575:14</p> <p>steady [1] - 570:21</p> <p>Stearns [2] - 506:18, 509:2</p> <p>steel [1] - 571:13</p> <p>steep [1] - 587:18</p> <p>stemmed [1] - 564:1</p> <p>stenographically [1] - 614:5</p> <p>step [1] - 563:14</p> <p>steps [2] - 538:4, 574:13</p> <p>STEWART [1] - 556:15</p> <p>Stewart [1] - 508:9</p> <p>Stewart's [1] - 523:24</p> <p>stick [1] - 603:19</p> <p>still [9] - 515:8, 523:5, 534:16, 547:8, 552:2, 552:3, 564:15, 574:12, 610:13</p> <p>stock [1] - 579:12</p> <p>stocked [2] - 527:21</p> <p>stocking [2] - 522:21, 522:22</p> <p>stone [1] - 580:13</p> <p>stope [2] - 548:12, 592:8</p> <p>stopes [6] - 547:19, 547:20, 548:10, 549:4, 551:6, 591:25</p> <p>stopped [1] - 533:25</p> <p>stopping [1] - 535:1</p> <p>storage [4] - 556:9, 556:10, 558:8</p> <p>stored [2] - 546:22, 561:4</p> <p>story [1] - 595:13</p> <p>strained [1] - 531:19</p> <p>strategic [1] - 598:24</p> <p>stream [9] - 516:8, 519:17, 520:1, 520:2, 520:3, 520:13, 522:10, 526:12, 529:9</p> <p>stream's [1] - 532:14</p> <p>stream-dwelling [1] - 526:12</p> <p>streams [22] - 511:1, 516:17, 517:5, 517:11, 517:23, 517:25, 518:4, 519:9,</p>
--	--	---	---	---

<p>519:10, 519:11, 519:18, 520:4, 520:11, 520:14, 520:15, 524:22, 527:9, 528:21, 529:15, 529:19, 533:2, 533:3</p> <p>Street [4] - 506:18, 507:19, 507:24, 509:3</p> <p>stress [1] - 529:11</p> <p>stressed [1] - 529:4</p> <p>stripped [1] - 523:16</p> <p>strong [2] - 576:4, 576:16</p> <p>stronghold [1] - 526:12</p> <p>structural [1] - 592:11</p> <p>structure [1] - 554:18</p> <p>studies [3] - 511:1, 525:16, 532:5</p> <p>study [7] - 526:6, 562:23, 562:24, 563:24, 569:3, 595:16, 601:10</p> <p>stuff [4] - 536:22, 560:24, 560:25, 590:18</p> <p>subject [2] - 609:2, 613:16</p> <p>subjected [1] - 515:15</p> <p>submission [1] - 611:7</p> <p>submissions [1] - 605:17</p> <p>submit [7] - 596:20, 596:21, 606:2, 607:11, 610:3, 610:20, 612:23</p> <p>submitted [7] - 596:21, 596:24, 597:6, 605:15, 606:6, 611:23, 613:10</p> <p>subscribe [1] - 614:13</p> <p>subsidiary [2] - 574:8, 574:10</p> <p>substantial [1] - 539:5</p> <p>substrate [1] - 535:12</p> <p>subwatersheds [1] - 513:20</p> <p>success [3] - 523:10, 524:12, 573:23</p> <p>successful [4] - 558:18, 558:24, 585:15, 596:6</p>	<p>successfully [1] - 560:22</p> <p>sudden [3] - 583:19, 589:24, 607:9</p> <p>suffice [1] - 606:16</p> <p>suggest [2] - 551:1, 597:16</p> <p>suggesting [1] - 533:11</p> <p>suggestion [1] - 545:12</p> <p>suggests [1] - 528:17</p> <p>sulfide [18] - 547:10, 550:15, 550:17, 550:22, 560:8, 560:14, 594:13, 594:18, 594:19, 594:23, 594:25, 595:5, 595:8, 595:11, 595:12, 595:13</p> <p>sulfides [1] - 549:7</p> <p>summarize [1] - 570:20</p> <p>summarized [1] - 523:25</p> <p>sunrise [1] - 511:18</p> <p>superfund [1] - 600:4</p> <p>supplement [1] - 597:17</p> <p>support [5] - 528:4, 539:3, 571:24, 579:18, 613:5</p> <p>surface [14] - 546:22, 552:2, 552:9, 552:17, 552:20, 552:23, 552:25, 556:21, 557:12, 557:20, 560:24, 561:4, 587:22</p> <p>surrounding [6] - 530:6, 532:7, 532:24, 556:18, 557:5, 558:18</p> <p>surrounds [1] - 595:1</p> <p>Survey [3] - 593:18, 594:13, 594:17</p> <p>surveys [1] - 528:12</p> <p>survival [1] - 515:22</p> <p>suspected [1] - 534:19</p> <p>sustain [1] - 513:24</p> <p>sustained [1] - 606:24</p> <p>sustenance [6] - 513:4, 513:10, 515:3, 515:10, 526:21, 527:7</p> <p>system [4] - 516:16, 532:21, 548:7, 587:21</p>	<p style="text-align: center;">T</p> <p>table [4] - 552:13, 552:15, 553:2, 578:1</p> <p>tabs [1] - 581:1</p> <p>tailing [7] - 559:5, 559:6, 560:8, 560:10, 560:15, 560:16, 566:12</p> <p>tailings [2] - 519:6, 520:19</p> <p>take-home [1] - 520:16</p> <p>takeover [3] - 577:2, 598:16, 598:17</p> <p>tall [3] - 554:9, 554:17</p> <p>tan [1] - 512:12</p> <p>tank [1] - 531:8</p> <p>target [1] - 588:3</p> <p>tech [1] - 512:1</p> <p>technical [1] - 611:11</p> <p>technique [1] - 592:11</p> <p>techniques [2] - 560:7, 595:23</p> <p>technologies [1] - 595:23</p> <p>temperature [1] - 518:11</p> <p>ten [6] - 572:9, 584:25, 592:16, 592:18, 594:5, 594:16</p> <p>tens [2] - 537:19, 559:12</p> <p>tenure [1] - 570:21</p> <p>term [2] - 546:22, 560:19</p> <p>terminology [1] - 572:20</p> <p>terms [11] - 541:8, 542:4, 549:18, 551:14, 565:13, 567:25, 576:9, 589:13, 590:19, 600:25</p> <p>terrific [1] - 604:22</p> <p>territory [5] - 541:9, 541:12, 572:24, 583:2, 583:8</p> <p>test [3] - 547:8, 548:4, 588:3</p> <p>tested [2] - 532:3, 566:3</p> <p>testified [1] - 529:24</p> <p>testify [1] - 510:6</p> <p>testifying [1] - 586:17</p>	<p>Testimony [3] - 506:14, 508:3, 508:5</p> <p>testimony [19] - 510:8, 510:13, 523:24, 524:1, 529:24, 536:8, 543:16, 543:18, 548:3, 550:4, 572:16, 585:11, 586:4, 594:2, 595:21, 596:4, 607:16, 611:4, 611:9</p> <p>tests [1] - 565:19</p> <p>themselves [2] - 524:23, 582:21</p> <p>theoretically [2] - 551:17, 570:8</p> <p>there'll [1] - 546:7</p> <p>therefore [1] - 520:6</p> <p>thereof [1] - 577:12</p> <p>they've [7] - 560:10, 561:7, 583:17, 583:18, 583:21, 609:22, 610:17</p> <p>thinking [2] - 567:6, 589:13</p> <p>third [4] - 510:12, 521:24, 546:18, 556:7</p> <p>THOMPSON [1] - 506:24</p> <p>thoughts [1] - 589:19</p> <p>thousands [3] - 513:25, 537:20, 587:1</p> <p>threat [1] - 528:20</p> <p>three [5] - 527:23, 538:10, 571:10, 580:18, 585:6</p> <p>three-year [1] - 580:18</p> <p>thrive [1] - 525:11</p> <p>throughout [3] - 510:24, 571:2, 609:10</p> <p>throw [1] - 510:4</p> <p>Thursday [2] - 611:2, 611:4</p> <p>ticket [1] - 581:5</p> <p>tied [1] - 566:21</p> <p>tight [2] - 564:3, 564:9</p> <p>tightening [1] - 564:12</p> <p>Tim [2] - 507:3, 604:21</p> <p>Tim.Carr@maine.gov [1] - 507:5</p> <p>timber [1] - 579:2</p> <p>timeframe [2] - 551:6, 570:10</p> <p>timeline [1] - 605:25</p> <p>today [10] - 510:7,</p>	<p>512:9, 515:8, 536:15, 537:6, 540:7, 593:21, 593:24, 604:3, 605:15</p> <p>today's [1] - 509:14</p> <p>together [3] - 572:5, 591:19, 605:4</p> <p>tolerance [1] - 526:4</p> <p>tolerant [2] - 529:5</p> <p>tolerate [1] - 529:2</p> <p>tons [2] - 559:3, 587:1</p> <p>toolbox [2] - 590:17, 590:23</p> <p>top [7] - 552:20, 552:24, 554:10, 554:18, 554:19, 555:9, 560:12</p> <p>topic [1] - 569:7</p> <p>topics [1] - 542:20</p> <p>total [1] - 602:22</p> <p>totally [3] - 569:7, 569:9, 602:1</p> <p>touches [1] - 511:19</p> <p>tourist [1] - 554:16</p> <p>toward [2] - 547:2, 547:9</p> <p>town [1] - 512:19</p> <p>town's [1] - 520:18</p> <p>township [2] - 537:11, 537:14</p> <p>toxicity [2] - 529:8, 529:9</p> <p>toxins [1] - 513:7</p> <p>track [2] - 575:5, 577:10</p> <p>Tracy [1] - 585:7</p> <p>traded [1] - 578:2</p> <p>traditional [3] - 515:1, 515:6, 515:20</p> <p>traffic [1] - 555:6</p> <p>train [1] - 571:12</p> <p>trainees [1] - 571:3</p> <p>training [1] - 570:13</p> <p>transaction [5] - 573:16, 574:1, 574:7, 575:4, 577:6</p> <p>Transcription [1] - 614:7</p> <p>transition [1] - 525:18</p> <p>transitioning [1] - 571:5</p> <p>treat [1] - 520:21</p> <p>treating [1] - 533:25</p> <p>treatment [1] - 590:15</p> <p>treaty [1] - 515:2</p> <p>tremendous [1] - 515:24</p> <p>triangle [2] - 560:13,</p>
--	--	--	---	---

<p>587:5 triangles [1] - 518:21 Tribal [1] - 507:22 tribal [6] - 514:8, 514:25, 526:19, 526:22, 527:6, 532:17 tribe [10] - 511:4, 511:10, 512:6, 514:1, 514:7, 514:9, 514:14, 515:9, 533:21 tribe's [1] - 510:25 tribes [2] - 511:21, 530:7 tributaries [3] - 517:6, 524:4, 528:6 tributary [1] - 521:12 trick [1] - 586:24 Trout [1] - 529:17 trout [18] - 515:18, 518:8, 526:8, 526:10, 526:13, 526:14, 526:17, 526:18, 526:21, 527:10, 527:14, 527:17, 527:20, 528:20, 529:2, 529:14, 529:16 truck [1] - 538:11 trucking [2] - 537:1, 589:16 truckloads [1] - 588:25 TRUDEL [25] - 509:16, 531:16, 531:22, 532:1, 532:9, 533:8, 564:21, 565:23, 566:2, 569:5, 577:19, 581:11, 581:15, 582:7, 582:11, 582:13, 582:18, 582:24, 588:14, 588:20, 589:5, 589:12, 589:15, 590:9, 591:7 Trudel [4] - 509:17, 581:24, 611:21, 612:15 Trudel's [1] - 596:12 true [1] - 614:8 Trust [1] - 537:14 trust [3] - 510:25, 512:7, 532:17 truth [2] - 510:9 try [5] - 511:11, 511:12, 527:7, 542:18, 612:13 trying [7] - 531:13, 572:4, 577:5, 579:19, 592:9, 605:5, 610:15 tubes [2] - 531:2, 531:13</p>	<p>tunnel [5] - 547:5, 547:9, 547:17, 549:21, 551:16 tunnels [3] - 547:2, 551:8, 551:17 turbines [1] - 536:22 turn [3] - 534:25, 556:14, 575:7 turned [2] - 540:15, 559:25 Turner [1] - 536:10 TURNER [8] - 536:11, 541:10, 541:14, 541:18, 541:21, 541:25, 542:6, 542:10 turns [2] - 516:3, 586:21 two [25] - 518:25, 521:22, 536:18, 538:16, 544:21, 546:9, 553:25, 554:2, 554:3, 554:10, 556:5, 558:21, 562:9, 563:14, 570:15, 571:1, 571:10, 574:1, 582:10, 582:12, 585:5, 596:4, 611:16, 611:17, 613:20 two-step [1] - 563:14 two-year [2] - 570:15, 571:1 type [10] - 554:17, 557:17, 564:7, 566:18, 566:21, 566:22, 567:1, 578:5, 585:16, 591:14 types [2] - 568:7, 570:20 typewritten [1] - 614:6 typical [5] - 550:7, 551:6, 551:7, 563:24, 579:1 typically [9] - 513:9, 551:10, 551:12, 552:7, 555:1, 555:11, 576:2, 591:14, 594:19 typo [1] - 522:13</p> <p style="text-align: center;">U</p> <p>U.S [3] - 522:18, 594:12, 594:17 U.S.A [1] - 581:7 ultimate [1] - 521:24 ultimately [2] - 553:11, 571:5 unable [1] - 515:9</p>	<p>unaudited [4] - 596:14, 596:22, 597:18, 597:24 under [17] - 513:3, 513:17, 521:5, 546:14, 557:9, 557:11, 563:18, 570:6, 574:6, 584:9, 597:14, 598:4, 601:2, 601:3, 608:1, 611:23 underground [14] - 545:19, 546:15, 546:25, 551:21, 551:25, 552:6, 559:14, 559:16, 560:5, 560:21, 561:2, 585:17 understood [4] - 535:5, 582:24, 598:9, 608:13 unfair [2] - 609:16, 609:21 unfortunately [1] - 515:9 United [4] - 523:6, 524:8, 526:9, 597:14 universe [2] - 610:8, 612:10 unless [1] - 564:17 unlivable [1] - 529:16 unnecessarily [1] - 524:11 unorganized [4] - 541:9, 541:12, 583:2, 583:8 unpleasant [1] - 516:2 unusual [2] - 563:24, 573:19 up [53] - 510:4, 510:5, 512:21, 516:22, 519:22, 523:20, 524:24, 525:22, 530:16, 530:24, 531:8, 532:4, 535:10, 535:13, 536:3, 536:7, 536:10, 540:11, 541:1, 541:14, 541:15, 542:13, 542:20, 545:15, 546:15, 551:20, 552:8, 552:10, 556:4, 562:10, 564:12, 570:11, 570:19, 571:1, 571:13, 572:12, 577:22, 578:10, 579:12, 582:3, 582:9, 582:12,</p>	<p>584:13, 585:9, 589:25, 592:15, 596:12, 600:8, 604:17, 604:23, 605:1, 605:21, 609:11 upfront [1] - 580:7 upgraded [4] - 516:14, 517:3, 517:11, 564:12 upgrades [1] - 516:7 uphill [1] - 545:8 upper [1] - 523:12 upset [1] - 518:12 upside [1] - 577:14 upwards [1] - 559:2 USE [1] - 506:2 users [1] - 527:1 uses [3] - 535:10, 541:14, 585:20 USGS [1] - 519:17 UT [1] - 541:17</p> <p style="text-align: center;">V</p> <p>Valley [1] - 538:14 value [3] - 537:4, 539:5, 579:7 values [1] - 599:4 valve [1] - 578:9 vary [1] - 589:2 vast [1] - 524:5 vastly [1] - 522:9 Veazie [1] - 521:23 Venture [1] - 529:17 Verrill [1] - 507:14 versus [5] - 561:19, 561:24, 563:21, 584:14, 597:24 vertical [1] - 546:2 vertically [3] - 545:20, 552:25, 554:12 via [1] - 570:16 viability [1] - 577:23 vicinity [4] - 517:24, 518:5, 527:24, 528:22 video [1] - 573:20 view [1] - 549:23 views [1] - 539:18 violations [3] - 599:12, 599:18, 600:9 violent [1] - 540:20 vitality [1] - 528:5 volcanogenic [1] - 550:22</p>	<p style="text-align: center;">W</p> <p>Wabanaki [4] - 511:16, 511:17, 511:22, 515:14 wait [1] - 573:23 walk [2] - 555:23, 588:7 Wall [1] - 507:24 wall [1] - 590:15 walls [2] - 545:13, 549:6 Walters [1] - 520:10 wants [3] - 602:17, 606:9, 606:12 warrant [1] - 588:10 Washington [2] - 509:24, 599:13 waste [7] - 556:9, 559:4, 561:4, 566:12, 567:1, 585:25, 587:23 watching [2] - 573:12, 573:21 Water [2] - 512:13, 533:25 water [60] - 510:16, 510:21, 510:22, 510:23, 511:6, 511:7, 511:9, 515:23, 516:8, 516:9, 516:13, 516:16, 517:21, 517:22, 518:16, 520:22, 524:18, 525:12, 525:15, 525:16, 526:2, 530:5, 532:4, 533:6, 534:1, 543:19, 543:25, 544:7, 544:10, 544:11, 544:14, 544:15, 544:19, 544:23, 545:2, 545:4, 545:7, 545:8, 548:19, 552:13, 552:15, 553:2, 556:6, 556:18, 556:22, 556:24, 557:12, 557:14, 557:20, 557:21, 557:22, 558:7, 560:11, 560:15, 560:17, 587:9, 587:24 waters [23] - 513:10, 515:3, 517:13, 517:16, 518:5, 518:6, 518:17, 519:2, 519:14, 520:11, 520:17, 521:8, 521:12, 521:13, 525:11, 525:13, 526:7, 527:18,</p>
--	---	--	---	---

<p>527:23, 528:23, 528:25, 532:6 watershed [23] - 510:25, 513:18, 513:19, 513:20, 513:23, 514:15, 515:23, 517:5, 517:25, 518:1, 521:11, 521:18, 522:6, 522:23, 523:3, 524:6, 527:6, 530:1, 530:3, 533:10, 533:12, 558:6 waterways [2] - 531:23, 532:1 ways [8] - 515:2, 515:6, 531:6, 544:22, 586:19, 586:21, 587:7, 587:22 website [2] - 578:21, 594:17 Wednesday [1] - 509:3 week [5] - 551:13, 552:9, 608:3, 611:3, 613:7 weight [1] - 595:8 welcome [1] - 592:13 wells [5] - 537:15, 585:12, 585:14, 585:17, 585:20 West [4] - 512:16, 513:1, 521:11, 524:10 west [7] - 513:13, 514:13, 516:23, 517:3, 524:3, 556:23 wet [4] - 559:5, 560:7, 560:10, 560:16 whatchamacallit [1] - 612:3 wheels [1] - 554:10 whereas [1] - 566:25 WHEREOF [1] - 614:13 white [3] - 511:15, 512:23, 521:9 whole [9] - 510:9, 510:24, 514:14, 516:3, 517:1, 519:20, 533:11, 537:3, 577:17 whoops [1] - 516:20 wild [3] - 511:3, 514:25, 526:13 Wildlife [1] - 522:18 wildlife [2] - 515:1, 528:3 willing [2] - 581:12, 582:7 winters [1] - 540:21 wish [2] - 518:24,</p>	<p>610:25 wished [1] - 584:10 wishing [1] - 540:5 witness [6] - 530:11, 557:3, 600:21, 600:22, 602:17, 609:12 WITNESS [1] - 614:13 witnesses [6] - 540:7, 592:25, 593:1, 593:2, 607:17, 609:12 Wolfden [26] - 506:9, 507:12, 509:8, 519:5, 520:17, 528:11, 538:1, 539:7, 539:13, 539:15, 539:20, 561:21, 562:2, 562:3, 569:13, 574:3, 574:7, 574:8, 575:7, 584:3, 593:9, 593:10, 593:20, 599:4, 602:4, 608:10 Wolfden's [4] - 512:10, 518:2, 561:15, 565:6 women [1] - 527:13 wondered [1] - 553:23 wonderful [2] - 526:18, 537:8 wondering [3] - 541:24, 569:25, 577:25 wood [2] - 535:6, 535:9 woods [1] - 604:25 Woods [1] - 512:13 WORCESTER [68] - 509:5, 510:1, 510:11, 512:1, 518:18, 518:20, 518:23, 518:25, 529:21, 530:9, 530:13, 531:15, 533:9, 533:17, 533:19, 534:19, 535:1, 535:18, 535:22, 535:24, 536:2, 536:7, 540:1, 540:4, 540:8, 540:15, 541:7, 541:13, 541:16, 541:20, 541:22, 542:4, 542:8, 542:11, 542:22, 543:5, 543:7, 543:10, 564:20, 569:6, 577:18, 581:22, 582:25, 583:16, 584:23, 585:2, 585:4, 585:7,</p>	<p>588:13, 591:9, 592:15, 592:18, 592:21, 593:3, 601:20, 601:22, 601:24, 603:10, 604:14, 605:8, 606:4, 606:15, 606:22, 607:3, 608:17, 610:25, 611:19, 613:19 Worcester [2] - 509:11, 510:14 word [2] - 536:18 workforce [7] - 553:12, 569:22, 571:6, 571:12, 571:24, 573:6, 587:15 workings [4] - 544:4, 544:15, 545:19, 550:18 Works [1] - 521:22 works [3] - 538:12, 543:10, 586:18 world [1] - 511:24 worth [2] - 551:25, 552:20 worthy [1] - 590:11 writing [1] - 610:3 written [3] - 602:3, 611:2, 611:5 www.dtainereporter.com [1] - 506:25</p>	<p>Yogi [1] - 567:8 York [2] - 507:24, 540:25 young [5] - 518:10, 525:17, 527:13, 529:4, 529:11 yourself [4] - 509:15, 589:24, 598:18, 609:8</p> <p style="text-align: center;">Z</p> <p>zone [6] - 547:13, 547:25, 549:5, 549:22, 567:17, 583:5 Zone [1] - 506:10 zones [3] - 550:15, 550:16, 550:18 zoning [1] - 509:7 Zoning [1] - 506:6 zoom [1] - 518:2 zoomed [3] - 556:4, 556:5, 556:8 zoomed-in [2] - 556:4, 556:5 ZP [3] - 506:6, 509:7, 611:13</p>
Y			
<p>year [10] - 521:3, 523:3, 523:7, 523:21, 570:10, 570:15, 571:1, 578:25, 580:18, 596:16 years [23] - 510:21, 513:25, 515:24, 527:22, 533:16, 533:17, 534:18, 538:9, 538:10, 538:11, 538:25, 542:2, 559:13, 569:13, 569:17, 571:9, 571:10, 572:9, 572:13, 572:14, 572:17, 575:10, 604:19 yellow [1] - 519:20 yesterday [9] - 512:20, 525:2, 533:3, 543:16, 544:21, 552:12, 564:22, 584:13, 613:13</p>			