

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

PEBBLE PROJECT
DRAFT ENVIRONMENTAL IMPACT STATEMENT
PUBLIC HEARING

NAKNEK, ALASKA

Taken March 25, 2019
Commencing at 3:30 p.m.

Volume I - Pages 1 - 87, inclusive

Taken at
Naknek Native Village Office
Dolly's Hall
Naknek, Alaska

Reported by:
Mary A. Vavrik, RMR

1 A-P-P-E-A-R-A-N-C-E-S

2 For U.S. Army Corps of Engineers Alaska District:

3 Lieutenant Colonel Penny Bloedel
4 Hearing Officer
5 Deputy District Commander
6 Deputy District Engineer

7 David Hobbie
8 Hearing Officer Assistant
9 Chief of Regulatory Division

10 Shane McCoy
11 Program Manager

12 Katie McCafferty
13 Project Manager

14 Kendall Campbell
15 Tribal Liaison

16 For AECOM:

17 Bill Craig
18 Project Manager

19 Jon Isaacs
20 Public Involvement Task Lead

21 Patty Murphy
22 Stakeholder Engagement

23 Taken by:

24 Mary A. Vavrik, RMR

25 BE IT KNOWN that the aforementioned proceedings were taken
at the time and place duly noted on the title page, before
Mary A. Vavrik, Registered Merit Reporter and Notary
Public within and for the State of Alaska.

1 P-R-O-C-E-E-D-I-N-G-S

2 MR. JON ISAACS: Okay, folks. We are
3 going to go ahead and get started, so if you can get
4 seated. First of all, I would like to have the mayor give
5 an invocation, please.

6 (Invocation offered by Mayor Daniel O'Hara.)

7 MR. JON ISAACS: So good afternoon. My
8 name is Jon Isaacs. I work for AECOM, which is an
9 independent contractor that's supporting the Corps of
10 Engineers in the preparation of the Environmental Impact
11 Statement for the Pebble Mine project. You will hear us
12 use the word EIS quite a bit. That's short for
13 Environmental Impact Statement.

14 First, I want to apologize for any inconvenience in
15 our change in venue. We want to really thank the Naknek
16 Native Village Council for allowing us to use this
17 facility. We found out about noon that there was going to
18 be a power outage at the school, and we wanted to have a
19 place that had plenty of time for people to come over to
20 testify. So again, we thank everybody for coming and for
21 their flexibility.

22 First, I would like to introduce some of our people
23 who are today here. At the front table we have the Corps
24 of Engineers team that's responsible for evaluating the
25 Pebble Limited Partnership permit application and for

1 completing this draft EIS.

2 Sitting at the front table we have Lieutenant Colonel
3 Penny Bloedel, who is the Deputy Commander of the Alaska
4 District of the Corps. We have Dave Hobbie, who is head
5 of the regulatory branch of the Corps. We also have Katie
6 McCafferty and we have Shane McCoy back there. Also in
7 the back we have Kendall Campbell, who is with the Corps,
8 and she's the new Alaska tribal liaison.

9 We also have some of our other team members here from
10 AECOM: Bill Craig, who is our project manager, is
11 actually back over at the school making sure that people
12 who are looking for the meeting come over here. And we
13 also have Patty Murphy, who is with E3, at the front
14 table, and she's one of our public involvement team. Also
15 we have Mary Vavrik, who is our court reporter who is
16 here.

17 So we really appreciate being able to come to Naknek
18 today. We also appreciate being able to listen to and
19 record your comments on the draft Pebble project EIS. We
20 thank you for the time you are taking out of your day to
21 meet with us and to provide your comments.

22 Before I have our court reporter give a couple words
23 on public testimony and turn the meeting over to the Corps
24 of Engineers, I want to provide some suggestions on
25 testifying and other ways to submit public comments. And

1 I'll point out some of the posters we have in the back
2 room there that you might find helpful in submitting
3 comments for the EIS.

4 First, with the posters, they provide information on
5 the National Environmental Policy Act, NEPA, which you may
6 be more familiar with, and on the Environmental Impact
7 Statement process. It's important that you understand
8 those processes and why the EIS is required, how it's
9 being put together, what's important to look at in the
10 EIS. That will really help you in terms of giving us
11 comments that will help the Corps in making changes to the
12 EIS.

13 There is also information there on the project
14 alternatives that are being analyzed in the EIS. In
15 addition to the proposed action from Pebble, in addition
16 to the no action alternative, which is issuing no permit,
17 there are also two alternatives that have different routes
18 in terms of combination of transportation routes, ports
19 and ferry crossings.

20 It also talks about in those posters what are some of
21 the resources that were analyzed in the EIS and also how
22 to use the website to both download documents and submit
23 comments. This particular EIS has a lot of information on
24 the website to try to get information out to a lot of
25 people, and if you look at it, you will find there is a

1 lot of information there. Okay.

2 Second, there are several ways to submit comments on
3 the Pebble project draft EIS, and you are not limited to
4 any one of them. In addition to testifying today, you can
5 also go on the website, pebbleprojecteis.com. We have
6 some cards on the back table that have the EIS address on
7 it for the website. And you can submit comments there.
8 You can submit comments as many times as you want. You
9 are not limited to one.

10 You can also use some computers in the back of the
11 room to submit comments on the website if you want to give
12 that a try. You can also speak to our court reporter
13 today in private. Once we finish with the public hearing,
14 people can then come up and give testimony to the court
15 reporter in private if they wish to do so. You can turn
16 in handwritten comments today to any of us up front here,
17 or you can also mail them in by the comment deadline. And
18 there is a sheet in the back of the room on the back which
19 has where to mail in the comments if you want to submit
20 them by mail.

21 One thing we do want to point out is all the comments
22 received, whether they are testimony, electronically,
23 written, they will appear on the website. We want to make
24 sure they are up there as quickly as possible so people
25 can see what sort of comments are being submitted. They

1 are also going to have your name associated with them.

2 So please think about how your comments can be most
3 useful in making changes to the EIS. This includes
4 comments that are specific in focus. These might include
5 reasons why you might disagree with the conclusions, the
6 analysis in the EIS. You might point out information
7 sources that we have missed or suggestions for additional
8 project development alternatives or mitigation measures
9 which are used for permitting conditions should a permit
10 be issued. The posters and project website also provide
11 suggestions for making effective comments.

12 If you are more comfortable in making comments in
13 Yup'ik, Patty Murphy will be recording those comments, and
14 we will be translating them afterwards, so they will also
15 be on the website.

16 We expect that many people will sign up today to
17 testify. I think so far we have around 20-something, if
18 I'm not mistaken. And what we are going to be doing is
19 using a number. I will call people up by their number.

20 If you haven't signed up, you are interested in
21 testifying and you want to get a number, please go see
22 Patty, and she will give you one at the sign-in table.

23 Mary will also be talking about this in her brief
24 instructions. What we want to do is have people start by
25 stating their name and spelling their name. It's

1 important for the public record to have your names
2 accurately portrayed.

3 We are going to ask you to try to keep your testimony
4 today to around three to four minutes. We don't know how
5 many people are going to show up. We want to make sure
6 that everybody has time to testify. If people are
7 finished testifying, I will see if anybody else wants to
8 testify. If you have already testified and want to say
9 more, we can have you raise your hand and have you come
10 back up and testify again. But we really do want to
11 provide an opportunity for everyone to testify.

12 I'm going to use a timer just to help me keep an eye
13 on what the time is for testimony. If you are going on a
14 long time, I might ask you to respectfully wrap up. It
15 means no disrespect to you. We just want to make sure
16 that everyone has a chance to testify.

17 And again, you are going to have opportunities to
18 submit more detailed comments, particularly what you may
19 learn today based on hearing what others have to say.

20 For those who are filming -- and so far we have
21 one -- we just want to make sure that you are being
22 courteous and you're not intrusive to the people who are
23 testifying to the Corps of Engineers. So thank you so
24 much for being off to the side. And that's great.

25 Cell phones. If you have a cell phone, if you could

1 turn off so it doesn't go off in the middle of the
2 meeting -- I'm guilty of that myself. So if you can take
3 care of yours, that would be great.

4 And finally, we know we are going to hear some strong
5 testimony today. People have opinions about this project
6 and concerns about the Pebble Mine for a long time, and we
7 understand we are going to hear some of those concerns.
8 We are here, the Corps of Engineers is here, to listen to
9 those comments and to consider them in making changes to
10 the EIS document.

11 I think we will also be taking some occasional breaks
12 today to allow people to stretch. So what I'd like to do
13 is turn the meeting over to our court reporter for some
14 quick instructions to help her get your testimony, and
15 then I'll turn the meeting over to Lieutenant Colonel
16 Bloedel.

17 (The court reporter instructed hearing
18 attendees on ways to help her create an
19 accurate transcript of the proceedings.)

20 MR. JON ISAACS: With that, I'm going to
21 give the microphone over to Lieutenant Colonel Bloedel.

22 LT. COL. PENNY BLOEDEL: Good afternoon.
23 Tribal and community leadership and ladies and gentlemen,
24 thank you for inviting us to your community today. We
25 greatly appreciate your hospitality and for taking the

1 time to participate in this hearing today.

2 I'd also like to echo Mr. Isaacs in thanking you for
3 your understanding of the last-minute venue change. With
4 the uncertainty on availability of power at the school, we
5 wanted to ensure we had a safe facility for this hearing
6 today. And I would also like to thank the Naknek Native
7 Village Council for the use of Dolly's Hall on such short
8 notice. Thank you.

9 All right. So my name is Penny Bloedel. I'm a
10 Lieutenant Colonel in the United States Army and the
11 Alaska District Deputy Commander and Deputy District
12 Engineer for the United States Army Corps of Engineers.

13 I'm a somewhat recent arrival to Alaska, moving here
14 three years ago, although I had an opportunity to visit
15 family here as toddler in 1978. As a lifelong Kansan, I
16 find Alaska enchanting. It's both familiar and exotic,
17 and I feel blessed that I have the opportunity to call it
18 home. Thank you.

19 I would now like to talk about why we are all here
20 today. The Corps has a responsibility to review permit
21 applications that require authorization under Section 404
22 of the Clean Water Act and Section 10 of the Rivers and
23 Harbors Act. Section 404 regulates the discharge of
24 earthen material into waters of the United States, often
25 referred to as aquatic resources. Section 10 regulates

1 impacts and activities within navigable waterways.

2 The Pebble Limited Partnership submitted a permit
3 application requesting authorization under these acts in
4 December 2017, which initiated our diligent application
5 review process. As part of that permit application review
6 process, my team has prepared a Draft Environmental Impact
7 Statement, or DEIS. The draft EIS identifies the positive
8 and negative impacts of the proposed project within the
9 scope of our authorities and is the NEPA tool that will
10 inform the Corps decision under the previously mentioned
11 acts.

12 Many of the concerns we receive through this process,
13 including those received during the scoping period
14 regarding Pebble's proposal, are addressed within the
15 draft EIS. However, our authorities are limited to what I
16 just described. The Corps does not have authority to
17 approve the mine plan of operations, the stability of dam
18 structures, reclamation or closure plans, or grant any
19 property rights whatsoever. Those decisions fall to other
20 agencies.

21 My team is here today to continue listening to your
22 input so we may consider potential revisions of the draft
23 EIS to achieve the most informed analysis possible. The
24 draft EIS preparation process includes multiple steps, the
25 first of which was scoping completed last year. The

1 scoping process enabled us to ask the public what they
2 might want us to concentrate on as we review the impacts
3 of Pebble's proposed project.

4 My team held a public meeting in this community, and
5 your feedback was included in our scoping report and
6 informed our development of the draft EIS.

7 The second step in the process was to take into
8 consideration the comments we received and write the draft
9 EIS. The draft EIS contains a description of the affected
10 environment, a reasonable range of alternatives, including
11 a no action alternative of Pebble's project as it was
12 proposed, and an analysis of the impacts of each
13 alternative. The draft EIS was released to the public on
14 February 20th.

15 The Corps is not an advocate for or opponent against
16 any proposed project. We strive to make fair, reasonable
17 and timely decisions on all permit applications.

18 The public hearing today serves two purposes. The
19 first is to solicit information for evaluation of
20 pertinent issues as they relate to Pebble Limited
21 Partnership's permit application, and the second is to
22 solicit your feedback on the Draft Environmental Impact
23 Statement. The information and feedback you provide will
24 assist us in refining the draft EIS and in decision making
25 for Pebble Limited Partnership's permit application so we

1 can make the most informed decision.

2 I look forward to hearing your comments, and thank
3 you in advance for any information you may provide to aid
4 the decision-making process. I would now like to call the
5 first speaker to share their remarks.

6 MR. JON ISAACS: So we have the person
7 with No. 1, if you could come up, please.

8 MR PAUL BOSKOFFSKY: Thank you for giving
9 me an opportunity to say a few words. Next time I come
10 in, I'm going to come in last, not first. First of all, I
11 would like to ask a question. How far along is Pebble
12 Mine license -- how far along are you guys?

13 MR. DAVID HOBBIE: Sir, I can tell you,
14 the public hearing process is really set up to hear what
15 you have to say. The draft EIS phase is about midway
16 through, sir. It's kind of about midway through the
17 process from release of the draft.

18 MR. PAUL BOSKOFFSKY: How long does it
19 take to get that far?

20 MR. DAVID HOBBIE: It depends on the
21 feedback you give, sir.

22 MR. PAUL BOSKOFFSKY: Okay. My comments
23 is I have been a commercial fisherman for 59 years for
24 four generations: My granddad, my dad and myself and my
25 son. And that's been our life. I don't have --

1 personally don't have anything against the Pebble Mine
2 because we realize how important a job is and income. And
3 I could see how this project could be helpful to the local
4 people. But we have lived here for centuries, and my
5 thought is that even though the Pebble Mine is a good
6 thing, I personally think it's in the wrong place for the
7 protection of our salmon, the salmon that we live by and
8 we still live by all our lives. Pebble Mine will be here
9 for a while and be gone, but the people will still be
10 here.

11 Thank you.

12 LT. COL. PENNY BLOEDEL: Thank you, sir.

13 MR. JON ISAACS: If I'm not mistaken, I
14 think we don't have a No. 2 or No. 3, so the next person
15 is No. 4, if we can have that person come up, please.
16 No. 4. So looks like No. 4 would have been.

17 UNIDENTIFIED FEMALE SPEAKER: Pass.

18 MR. JON ISAACS: Pass? Okay. Thank you.
19 And if you change your mind, we can do that. So next up
20 is No. 5.

21 MR. MARTIN SPEAK: Hi. Thank you for
22 being here, and I respect you for your job. Thank you.

23 Hi. I'm Martin Speak. I flew up here from the
24 Seattle area. I spent over two grand to talk to you for
25 over two minutes. I do this because I have a unique

1 perspective on this particular issue. I have fished in
2 Bristol Bay and for the Bering Sea for 35 years. I also
3 work a land job down in western Washington dealing with
4 surface water and spill cleanup. And for 20 years,
5 equivalent to 20,000 hours, what I've learned with these
6 20,000 hours of experience is you cannot contain a large
7 contaminated area. You cannot. It is complete folly to
8 think you can contain these proposed massive tailing
9 ponds.

10 Murphy's law, anything that can go wrong will go
11 wrong. Earthquakes. Earthquakes, large storm events,
12 human error, Mount Polley. The people who are responsible
13 for the Mount Polley berm break disaster are the very
14 people who are telling us that this time they will do it
15 right. The people who are responsible for the worst
16 environmental disaster in British Columbia history are
17 telling us this time they got it right. To date, nobody
18 has been held responsible or charged for the Mount Polley
19 disaster. Nobody has been charged.

20 For those who are for this mine, I say -- and they
21 say, I need to feed my family, you will be feeding your
22 family poison. In the early 2000s there was a groundwater
23 tracer experiment. I'm sure some of you have heard of it.
24 They put tracer in the groundwater to see which way the
25 groundwater flowed, and what they found was it flowed in

1 many different directions, popping up in many different
2 locations.

3 So when that mine contaminates the groundwater -- and
4 it will -- that contamination will flow throughout the
5 Bristol Bay drainage, and when that happens, you will be
6 holding out a death sentence to this salmon run as we know
7 it.

8 We fishermen, we make a footprint when we are here,
9 only here -- but we are only here a few weeks. And
10 whatever footprint we make heals over the next 10 to 11
11 months. Pebble will be 24/7/365 blowing up the tundra and
12 leaving a massive toxic lagoon forever, and the State of
13 Alaska will be responsible for its care forever. If you
14 are going to be -- if you are going to leave something so
15 lethal forever, shouldn't you give it more thought, like
16 extending the review process for 270 days?

17 At the very least, we deserve the dignity to extend
18 the permitting review process for 270 days. One of the
19 last thriving salmon runs left on the planet deserve this.
20 Thank you.

21 LT. COL. PENNY BLOEDEL: Thank you, sir.

22 MR. JON ISAACS: No. 6.

23 MR. RICHARD RUSSELL: Hello. My name is
24 Richard Russell, R-U-S-S-E-L-L. I'm a retired Alaska
25 Department of Fish & Game fisheries biologist. Spent

1 quite a few years working up around Iliamna Lake and some
2 of the nearby river drainages. I started out in college
3 to be a geologist. A couple years into it, I became a
4 fisheries biologist.

5 Anyway, with regard to your Pebble project permit
6 review on the waters, in my view the only option that is
7 accessible [sic] is to leave the area alone, and I'll tell
8 you why.

9 Work on any of the three routes that are proposed
10 would damage fisheries in the waterways that are involved.
11 There is 26 species of fish that we know of in Iliamna
12 Lake. A number of them spawn in the streams around the
13 lake. Any of the proposals that cross Iliamna River,
14 Gibraltar River, Newhalen River, the rivers over on the
15 Cook Inlet side, or any of the work that goes along the
16 sides of those rivers for roads, any of those types of
17 things will have an effect on the fish and the waters.

18 Fish, when they are spawning, shortly after they
19 spawn, the eggs are fertilized, and after they're water
20 hardened, they go into what's called the green stage.
21 During the green stage, which is about 24 to 36, maybe a
22 few hours later, after the fertilization, even in
23 hatcheries if you shut a door hard, you kill a bunch of
24 the eggs as the little cells are beginning to multiply and
25 move around the -- spread around the yolk sac. So we have

1 people in hatcheries that come in and pick the dead eggs
2 out so that fungus doesn't spread to the live eggs.

3 Well, you can imagine what heavy equipment moving
4 across a bridge, driving up and down a road along a stream
5 will do to those salmon eggs that happen to be in that
6 stage during that period of time.

7 Not only are there salmon eggs in the streams, but
8 the rainbow trout spawn in the middle of those streams
9 earlier than the salmon. So you have eggs in the gravel
10 from about, in a year like this, probably early April
11 until -- the last rainbow trout spawning is often about
12 the middle of June. The first salmon spawning is often in
13 late July. And there is salmon that are spawning in some
14 of those waterways clear into the last week of December.
15 So where does that leave you time to operate heavy
16 equipment along those streams, across bridges?

17 Any kind of increased traffic with jet boats and
18 other such things that would be facilitated by access to
19 some of those streams, which are bridges, would apply.

20 At any rate, given that and looking at your proposed
21 plans, I would suggest that you not approve transport
22 across the Gibraltar River, which is an absolutely major
23 spawning stream in the Iliamna area, but your route, your
24 proposed alternative route, Kokhanok East ferry terminal
25 would be preferable from that standpoint.

1 And also from that standpoint, running the pipeline
2 and traffic down to somewhere around Talarik River is far
3 less desirable as if you -- rather than if you ran it
4 straight across the Iliamna where you have got
5 infrastructure, you have people who are there who can
6 advise you on what docks, structures and things of that
7 nature work in that area.

8 Second, in my 50 years of residency out here,
9 Augustine volcano has gone off four times. If you look
10 back a little bit farther, it's gone off seven times in
11 explosive eruptions since 1908. The last 50 years, that
12 works out to once every 12 years. If you look back to
13 1908, it's once every 17 years. Each of those are
14 explosive eruptions. Some of them have pyroclastic flows
15 which can flow across the water, which they found out in
16 the Mediterranean with some of the villages that were
17 wiped out there.

18 At any rate, you can expect over the life of this
19 project that there are going to be a number of eruptions
20 if recent history is indicative.

21 When those eruptions occur, depending on the wind
22 direction, ash fall would affect any facilities that are
23 anywhere near Mount Augustine, and at times they
24 collect -- experience ash fall as far away as Iliamna
25 village itself.

1 Facilities in the Bruin Bay area would negatively
2 affect the internationally well-known brown bears that
3 frequent the McNeil River Bear Sanctuary. And any
4 facilities that are placed over in Amakdedori in that
5 general area are going to have man/bear interactions.
6 There are man/bear interactions from the McNeil River
7 bears all the way to Kokhanok.

8 When I used to have a bunch of rainbow trout tagged
9 up there, and the villagers of Kokhanok would ask me if I
10 would like to have the fish tags back that they collected,
11 they would also ask me, you would like a bunch of the bear
12 tags we collected? And the bear tags were off of brown
13 bears that had been tagged at McNeil River by Utah State
14 University. And I'd bring a handful back to the game
15 biologist here in King Salmon. But they were bears that
16 were raiding or near the fish camp at the mouth of the
17 Gibraltar River, and there was a gentleman there who was
18 designated to take care of them.

19 So anyway, we know that McNeil River bears are going
20 to be not only along the Amakdedori site, but also over on
21 the Kokhanok side and anywhere along the Gibraltar River
22 corridor where many thousands of sockeye salmon will be
23 spawning.

24 A simple Internet search -- No. 4 -- of the mine
25 tailings dam failures turns up in the last 60 years 121

1 worldwide. And on the list it says this is not a complete
2 list. Of that 121 in the last 60 years, one every other
3 year, 30 of them are from the United States. And they are
4 from big major companies, companies we hear about out
5 here. Teck Cominco had a couple. I've got a list of them
6 here. Norsk Hydro. Rio Tinto had a couple. Cargill had
7 four. And of course, we just had the big one down in
8 South America in Brazil the other day that failed, which
9 now they're blaming is an act of God and trying to weasel
10 out of fiscal responsibility for. And Brazil just closed
11 down one of their other iron mines there.

12 So anyway, if a dam failure, tailings failure,
13 happens, you will have tailings material in navigable
14 waters of the United States, of the state of Alaska, and
15 affecting fisheries that we all depend on. So it is
16 something that I think you should be considering strongly,
17 particularly since they say that mine tailings dam
18 failures are more common than water impoundment failures.
19 So that's a pretty serious thing, and that's just a simple
20 look on the Internet to give you the chronology. And I
21 have the chronology right here in my hand.

22 I guess about the last thing that I need to say is I
23 used to work on Iliamna Lake 1969 and 1970 with the
24 University of Washington Fisheries Research Institute.
25 And I was a person that was a skiff man. At night we

1 would run skiffs across the lake tethered to a Bristol Bay
2 fishing boat. And we would drag surface trolls on the
3 surface of the water to try and estimate how many little
4 salmon were feeding at the surface of the lake, which they
5 do at night when the plankton migrate to the surface. The
6 little salmon follow them up.

7 And there were many, many nights when within 10 or 15
8 minutes of when we started out on the lake the wind come
9 up through the Bruin Bay pass. And in 10 to 15 minutes,
10 it can go from flat calm to seven- or eight-foot waves
11 easily to the point where we were blown off the lake.
12 Sometimes we spent two or three days anchored up behind an
13 island, Shoulder Blade Island or one of the islands off
14 Kokhanok trying to wait out the storm.

15 It's a big, serious body of water that people don't
16 go on lightly. If you ask when you go to the other
17 villages how many people have lost family members on it,
18 you might get a big show of hands. We don't need an
19 Edmund Fitzgerald sitting on the bottom of it. And it's
20 in that relative category of bodies of water. It's a very
21 serious, serious endeavor to be on that lake.

22 The lake at times will get as much as 60 inches of
23 ice on it in the winter, and I've seen it not open till
24 the middle of June.

25 When I was stationed in Lower Talarik Creek, people

1 wanted to come down here in the bay and fish kings in the
2 Nushagak and needed to get there in late May and early
3 June. They would call me up and ask me how thick the ice
4 was in front of me. I would go out and chop through it
5 and tell them so they could estimate when they could bring
6 their fishing boats down the lake to Igiugig to try and
7 get through the flats and get the fish. It was the 16th
8 of June one year when the ice went out enough that they
9 could do that.

10 And when the ice begins to go out, the east winds
11 that come through the Kokhanok notch push the ice over to
12 the southwest corner of the lake and build up humongous
13 big piles of ice there. So this western terminal that's
14 proposed for the upper Talarik up there had better be
15 located way back from the shore. There better not be any
16 docks or things out there or that ice will be a very
17 serious impediment to them.

18 So again, I would suggest that they do run something
19 across the lake, they take it to Iliamna which is, for the
20 most part, out of the path of that drifting ice. These
21 are chunks of ice that are bigger than football fields at
22 times.

23 Anyway, thank you for taking my testimony, and I wish
24 you luck.

25 MR. JON ISAACS: No. 7.

1 MS. MARILYN A. HANSEN: First of all, my
2 name is Marilyn, M-A-R-I-L-Y-N, middle initial A, last
3 name Hansen, H-A-N-S-E-N. I am a lifelong resident of
4 Bristol Bay, currently a member of Naknek Native Village
5 where you are right now.

6 Our entire family are subsistence users of salmon,
7 caribou, moose, berries, et cetera. Please consider my
8 request to stop all of the mine development.

9 Thank you for my consideration.

10 LT. COL. PENNY BLOEDEL: Thank you, ma'am.

11 MR. JON ISAACS: No. 8.

12 MR. PAUL HANSEN: Thank you. My name is
13 Paul Hansen, P-A-U-L H-A-N-S-E-N. Thank you for allowing
14 me to comment.

15 This 3-000-plus page document draft flaws. Standing
16 out are ignoring the downstream effects of mining
17 wastewater impacts, focusing only within the actual
18 project footprint; the enormous risk to the entire
19 watershed through unsafe mine water discharge, leaking
20 heavy metals and tailing dam failures, wastewater. Any
21 credible environmental review would address those risks.
22 I urge all responsible decisionmakers not allowing a
23 permit to the Pebble Partnership.

24 This project is right in the middle of Bristol Bay
25 salmon habitat.

1 Thank you for this time allowing me on this issue.

2 Thank you.

3 LT. COL. PENNY BLOEDEL: Thank you, sir.

4 MR. JON ISAACS: No. 9.

5 MR. RUSSELL NELSON: Hello. My name is
6 Russell Nelson, and Paul is my dad's first cousin. So you
7 know, a lot of people in Bristol Bay are related. And my
8 dad passed away a couple of weeks ago, but he had a very
9 good life. Taught all of his kids how to hunt, fish,
10 clean moose, clean fish. In fact, I grew up on the back
11 of Dad's boat, the Joni Lee. It was a 32-foot Bryant
12 gillnetter out in Bristol Bay. And our families go back
13 generations here.

14 Anyway, I'm also on the board of directors of the
15 Bristol Bay Native Corporation. And you know, welcome to
16 the sockeye salmon capital of the world. And I believe
17 there is more wild sockeye salmon processed up here in
18 Naknek than there is any place else in the world. It's
19 the Nushagak River where that -- the Kuktuli flows down
20 that they want to build a mine on and rip up some of the
21 salmon spawning beds. 25 percent of the kings spawn up in
22 that area that you would dewater and rip up.

23 And the Nushagak River is the last major king salmon
24 river in the world. Everybody else seems to be having
25 problems. The Nushagak, the guys will get 100,000 kings

1 going up it every year. And that's our first subsistence
2 food that we get in the spring. And the ducks and the
3 geese fly up over, but the first fish that come in are the
4 kings. And they are really important. They're really
5 oily. And everybody puts them up. There are 100
6 different ways to put them up. Strips and just cooking
7 them up. We love our king salmon heads. We put up a lot
8 of king salmon heads every year.

9 So that's -- you know, the area that we are talking
10 about up there, we just can't seem to justify sacrificing
11 25 percent of our kings just by ripping up the land to
12 build this mine site. We need that no action alternative.
13 There was -- I didn't see a no action alternative at all,
14 and I've seen it on other types of projects.

15 I mean, if you are going to destroy it even with a
16 small mine site, you need to have a no action alternative.
17 And when they are advertising such a huge resource to
18 their investors and then they are saying they are going to
19 build a small mine site, are they going to just keep
20 asking for extensions and getting the camel's nose under
21 the tent?

22 With over 400,000 pages of documents to go through in
23 your current project library, 90 days is way too short.
24 We can just barely touch the surface. The testimony time
25 here is only going to touch the surface of the concerns of

1 the people. And if we had more time, we could research it
2 more and actually come up with a lot more concerns. And
3 so if you would extend this to 270 days, it would be a lot
4 better.

5 Please add more villages to your list. I flew here
6 in my little airplane. And it's pretty windy out there,
7 if you noticed. I think I was topping a 50-knot crosswind
8 over here. And with landing, I was really glad the wind
9 was up and down the runway because it's pretty dangerous.

10 We have small airplanes. We can't jump on snow
11 machines right now. You can see there is no snow to run
12 on. The rivers are still ice in them. For people to get
13 from a village to a place like this is pretty much
14 impossible unless they can jump on an airplane and have
15 the money to do it. And it would be better if you guys go
16 to the villages because there are fewer of you traveling
17 there. It's way cheaper than all of the village people
18 traveling to a hub location.

19 Lots of us commented on the draft EIS when they
20 were -- when the EPA was out here doing it, and it seems
21 like a lot of those things were never answered in -- what
22 I can see so far.

23 We can't afford another Mount Polley dam failure.
24 Our fish here are way too important.

25 And going back again to the size of it. I don't

1 understand how you could come out with a draft EIS that
2 doesn't take in the whole ore body. You know those guys;
3 once they get in here and start digging, they are not
4 going to want to quit. The richer ore is the eastern end
5 compared to the western end. It's also higher in
6 sulfites.

7 And the pyrite is the real bogeyman in this mine.
8 Even when you leave the pit lake that's in the plan, as
9 they are digging it all out, when it's raining and when
10 they get to the end of it and as it starts filling up, a
11 lot of those sulfites, as bad as they are with such a high
12 percentage of the pyrite will start oxidizing and
13 releasing the sulphur.

14 And years ago I learned about it. I went to the
15 first meeting when Bruce Jenkins came to Dillingham and we
16 met there at the fire station, and he said, you know, you
17 guys -- all the environmentalists are going to come here
18 and get you on their bandwagon to be against this mine
19 but, you know, do yourself a favor, get yourself educated,
20 and then you will see we are going to do this mine right.

21 Well, when we were going home, my wife told me that
22 he was right. I didn't think he was right. She said,
23 yes, he is. You need to get educated. So I went and
24 signed up at the college. I hadn't been taking college
25 classes, but I did, and I got my AA degree and then I

1 moved on and got my bachelor's degree. It took me about
2 seven or eight years working full time, raising a family,
3 but I did. I went and got educated.

4 And I looked at the minerals a lot. I really tried
5 to take the classes that told me about this mine site.
6 And all it did was scare me worse, the type of low-grade
7 porphyry mine that it is. So I did get myself educated.

8 And then a couple years later when we were down
9 listening to a talk at Yale University with -- when I
10 think it was president of the board of our -- of
11 Northern -- the Pebble project, he had the gall to call
12 us, the people in Bristol Bay he said that were against
13 the mine were ignorant. And I thought, man, I went
14 through a lot of college to be called ignorant. It's not
15 fair.

16 And anyway, I think you need more seismic analysis.
17 You know, your draft EIS contains only about 6 percent of
18 the studies that were referred to in the watershed
19 assessment that EPA did. You know, just go on and it's --
20 you know, we just don't have enough time here to go
21 through all of the different problems.

22 One thing I wanted to highlight was that you guys are
23 saying that -- during the 404(c) process, they said they
24 were going to use 19 miles of streams. Five of the miles
25 were salmon spawning streams, and they were going to

1 disturb 1,100 acres of wetlands. But on your new draft
2 EIS, it jumps that thing up to 81.1 miles of streams, 8.87
3 miles of salmon spawning streams, and 3,560 acres of land.

4 And what really, really gets me, too, is this 8.87
5 miles of salmon spawning streams. I saw something that
6 the Pebble Partnership put out that said that it's only
7 like such a fraction of a percent of all the salmon of
8 Bristol Bay that spawn up there. What they don't tell you
9 is it's 25 percent of our king salmon spawning beds. And
10 we really can't afford to give up 25 percent just to dig
11 it up.

12 If they are going to build that mine, they've got to
13 figure out a way to stay out of all the salmon spawning
14 streams and not dewater it, because even if you dewater
15 it, it's just like ripping up the stream. If there is no
16 water, the fish aren't going to live in it. So anyway --

17 I would ask, please, that we need more time to study
18 this draft EIS. Please give us 270 days. We need a no
19 mine alternative. We need a more realistic mine size
20 studied, and we need more protections for the fish and
21 wildlife that we depend.

22 And one thing I didn't mention was I do have a part
23 ownership of a Native allotment that our family has used
24 for subsistence for years on the Nushagak River itself.
25 And I saw a thing, if there was a small failure on how far

1 down it would affect, but for some reason it stopped just
2 before you got to Stuyahok. But we know that it's not
3 going to stop at Stuyahok, if it's going to have a spill
4 and stop at Stuyahok. It's coming downriver. --

5 And I'm, I'm going to say, about 20, 25 miles
6 downstream of Stuyahok. And my cabin is right up on top
7 of the bank by the river. In fact, it's probably less
8 than ten feet from the edge of the bank. And if something
9 were to happen and we were in the cabin, what would happen
10 to us? You know, would we all be in danger, and we would
11 need to find higher ground for our cabins. But having
12 some studies that would tell us that would really help.

13 So thank you very much. Thanks for coming to Bristol
14 Bay.

15 MR. JON ISAACS: No. 10.

16 MR. GEORGE WILSON, Jr.: Hello. My name
17 is George Wilson, Jr. G-E-O-R-G-E W-I-L-S-O-N, J-R. I
18 live here in Naknek, but I grew up in Igiugig. And I know
19 very well where the mine site is at up there at Talarik at
20 the foothills. I grew up hunting in that area, and I've
21 taken moose, caribou, wolves, wolverine. Many critters.
22 And I have been commercial fishing since 1980. And my
23 family has been out here in this region since the
24 beginning of time, and they all partake in the salmon.

25 Every region of this whole world has got special

1 things to it, and Bristol Bay is salmon. We are the last
2 and the largest left in the world. We weren't the only
3 one. We are just the last one. And it was resource
4 development of some kind that impacted all the waters of
5 this place, the planet that we call earth. And I cannot
6 imagine allowing this type of a development to impact the
7 future of this region.

8 We just came off the largest run on record this last
9 season, and I think it's great, but to look down in the
10 future if this mine was to go on, it would put those fish
11 in jeopardy, the fishermen, the local subsistence users.
12 I just couldn't imagine allowing that to happen.

13 I feel like this land was gifted to us from our
14 ancestors, and we right now, my fellows that do not
15 support this, it's our job to protect it for the future
16 generations. I'm a father. I could not imagine my kids
17 not enjoying the same opportunities I had out here.

18 With that, I hope you guys take this very seriously
19 as it will impact everyone out here. Thank you.

20 LT. COL. PENNY BLOEDEL: Thank you, sir.

21 MR. JON ISAACS: No. 11.

22 MR. JOSHUA BAEHM: My name is Joshua
23 Baehm. I came here with my auntie Jessica Chernikoff.
24 How to spell my last name is B-A-E-H-M.

25 I'm testifying for myself and the people of Egegik.

1 We traveled to Naknek today to testify because the
2 majority of Southwest Alaska does not have the opportunity
3 to testify at a public hearing in each of our communities.

4 My community has concerns about the impacts that the
5 Pebble Mine would have on our lands, waters, wildlife and
6 people now and for generations to come. Some of the
7 concerns that our village members and tribal elders have
8 about the wildlife, what will happen to our caribou, was
9 we have already begun to see migration patterns change,
10 and we are worried what development at the mine site will
11 do to caribou that migrate all the way from north of Lake
12 Iliamna all the way down to the tip of the Alaska
13 Peninsula. Additionally, how will it affect other animals
14 like porcupine.

15 These animals are a vital source of food and culture
16 for our people, and we do not see how they may be affected
17 in the Draft Environmental Impact Statement.

18 Another concern we have are the short-term jobs that
19 Pebble claims they will provide for the people of our
20 region. We do not need jobs that will come and go. We
21 need jobs that stay. Commercial fishing is a big and
22 sustainable industry for Southwest Alaska, and we know,
23 according to the EPA, that fishery could be negatively
24 impacted if Pebble were to be built. It is important to
25 consider how important our fishing jobs are. And they

1 will remain in our region if we do not jeopardize them for
2 unsustainable development.

3 Fishing and the subsistence way of life has supported
4 our people for generations and will continue to allow our
5 people to survive, will support our children and
6 grandchildren into the future as long as we protect it.

7 Our people are also confused by the lack of
8 information in the draft EIS. Do you have a plan in place
9 if a major failure or spill happens? How will our
10 communities, our people, our livelihoods be impacted? How
11 long will it take for our lands to return to normal after
12 the massive project is built? How much money will it cost
13 for the company to clean up after the project is finished?

14 There is not any evidence in the Draft Environmental
15 Impact Statement of a major tailings failure or of the
16 impact that will have on our waters. This is highly
17 concerning.

18 We also hope that the Army Corps will consider
19 holding hearings in all communities of Southwest Alaska,
20 not just a few selected. That way the voices of my
21 community members can also be heard.

22 Thank you, guys.

23 LT. COL. PENNY BLOEDEL: Thank you, sir.

24 MR. JON ISAACS: No. 12. No. 12 passes.

25 Thank you. No. 13.

1 MR. DANIEL O'HARA: I'd like to thank you
2 for the opportunity to be able to speak to you today.
3 This young man that talked to us was pretty impressive. I
4 like that at a young age.

5 I grew up on Lake Iliamna, the headwaters. Lake
6 Iliamna is 93 miles long and 30 miles wide. I have
7 thousands of areas of flying that area. I see a lot of
8 people out here in the audience today who chase wolves up
9 in the Kuktuli and Upper Talarik, and this is where the
10 possible project will take place.

11 Now, we talked a while back, a few months back, on
12 this very subject. And I thought it was the Corps of
13 Engineers that came.

14 There's just a couple of things that I wanted to
15 remind you of today. If the Pebble project -- and in
16 fairness, I would prefer to see the permitting process
17 take place before I gave you an opinion on whether I like
18 the mine or not. Well, it has come out, and one of the
19 things I want to talk about today is something I won't
20 agree on.

21 But I grew up on Lake Iliamna, a village of about 400
22 people in those days. My grandpa was the mayor -- I mean,
23 the chief I guess they call him. Anyway, he had a
24 reindeer herd. And we were all familiar with all the
25 parts of Lake Iliamna.

1 At the very headwaters of the Kuktuli, which runs
2 into the Nushagak, which Russell kind of addressed a
3 little bit today, and then from the top of the ridge, it
4 runs down into the Upper Talarik, which is into Lake
5 Iliamna. So if the project does take place, it's the very
6 peak of both streams running into a massive amount of
7 salmon. 22 million salmon were harvested last year in the
8 Nushagak. We harvested a total of 41 million. We quit
9 counting fish at 65.4 million. The biologist went home.
10 And that's gone on for four years. So you know it's
11 massive.

12 So at the very headwaters of this, both streams
13 flowing in both directions. And I guess the concern that
14 I have that I'd like to share with you today is that one
15 of the things proposed in this project is that they would
16 take the material from the northwest side of the lake
17 across to the east side and go through Bruin Bay. And
18 they would use a vessel to take the materials across.

19 Now, there are some of you who know that the pressure
20 cracks on Lake Iliamna are higher than this building. I
21 remember laying in bed and listening to a pressure crack
22 coming up the lake. And sometimes that pressure crack
23 would reach as high as 16 feet when the ice came together
24 and the pressure crack took place. And I don't want to
25 see a vessel on the waters of Lake Iliamna when a pressure

1 crack is coming across with materials in it. I don't want
2 to see anything put in Lake Iliamna. We are fine like it
3 is.

4 So if the permitting process started, and that's one
5 of the things that's happening, I think I would have to
6 say no.

7 Thank you for your time.

8 MR. JON ISAACS: No. 14.

9 MR. RUSSELL PHELPS: Hello. My name is
10 Russell Phelps, R-U-S-S-E-L-L P-H-E-L-P-S. I work for
11 BBNC as a natural resources manager. Born in Bristol Bay,
12 raised in Naknek. Actually, I was born in Dillingham,
13 unfortunately, and raised in Naknek. Talking to my
14 opponent coach there, having a lot of fun.

15 I started fishing in 1979. I was nine years old. I
16 was supposed to get paid \$1,000 from my uncle, but he
17 shorted me. He paid me 500. I still thought I was rich.

18 I did stop fishing for a little while in 1990s
19 because the fishery took a downturn and the prices were
20 real low, so I started working construction. I picked it
21 back up in 2005 when my dad retired, and we had quite a
22 few set net sites that we fished. And I just recently
23 bought a drift boat from a lifetime resident here that's
24 in the crowd.

25 I'd like to say that I personally oppose the mine,

1 and I'd ask and urge you to select the no action
2 alternative. The mine life is finite. It's 20 years,
3 maybe 50 years, at the most. The sockeye salmon run is in
4 perpetuity. It has been here for thousands and thousands
5 of years. Our ancestors here have been here approximately
6 6,000 years, and we have always harvested the salmon. And
7 I'd like to see that for another 6,000 years without any
8 threat to the salmon industry.

9 Interestingly enough, last night I watched a
10 documentary about APA, Alaska Packers Association. And
11 they bought all the canneries up Southeast Alaska all the
12 way to Bristol Bay for about 6.5 million dollars. And the
13 number one fishery for APA in volume was Bristol Bay.

14 The Naknek/Kvichak -- no. I'm sorry. The Kvichak
15 and the Nushagak produce about 26 percent of the world's
16 supply of sockeye salmon. With all the other fishing
17 districts combined, the Bristol Bay area produces about 51
18 percent of the world's sockeye.

19 Back when you guys were here about a year ago, say, I
20 said what -- what engineer or scientist can reproduce a
21 sockeye salmon? If you look at farmed salmon, it isn't
22 sockeye. So this is one of our last resources of sockeye
23 salmon in the world, and I'd hate to see it being
24 threatened.

25 I also know that this is an opportune time for the

1 administration, our national administration and our state
2 administration, to push this mine through because it is in
3 favor, and I see -- I understand that the state of Alaska
4 is in dire need of money, but I don't think that this mine
5 here is the resource that we should be tapping. We have
6 other mines throughout the state that can produce this
7 product of copper and molybdenum that we need.

8 I also am concerned about the large tailing breach of
9 the dam. We've seen Mount Polley, as has been spoken of
10 before.

11 I'd also like to suggest that the draft EIS include,
12 which it has failed to, geotechnical data, seismic
13 analysis and drain engineering for the tailings dam, a
14 detailed reclamation plan, a description of financial
15 assurances or bonding, a health impact assessment, testing
16 of the water treatment system as recommended by AECOM,
17 state permit applications to inform the more technical
18 aspects of the proposal, a Clean Water Act 404(b)(1)
19 guideline analysis, a public interest review. The Corps
20 may only issue a 404 permit if a proposed project is not
21 contrary to the public interest.

22 I think the Corps needs to take into consideration
23 that a majority of the public in the Bristol Bay oppose
24 the mine, and I think that should be noted.

25 In conclusion, I'm not a very old man, but I have

1 been doing a little study, or at least know some history.
2 That's kind of one of my hobbies. And I've seen man's
3 industrial engine move from Europe across America, and we
4 know that all these salmon streams in Europe have been
5 decimated. Now the salmon streams in California, Oregon,
6 Washington, and even British Columbia are also threatened
7 to the point where they don't really produce.

8 In fact, people in Seattle won't eat king salmon
9 anymore, but that's because of orcas, not because of the
10 mine. There is such a low supply.

11 But to me, man's industrial engine is a cancer, and
12 it's spreading to Bristol Bay, and I'd like to see it
13 stopped. Why would we want to jeopardize one of the last
14 most successful sockeye salmon fisheries in the world?

15 Thank you.

16 LT. COL. PENNY BLOEDEL: Thank you, sir.

17 MR. PETE CARUSO: My name is Pete

18 C-A-R-U-S-O. Thank you for coming to our community to
19 give us an opportunity to speak. I have been here going
20 on 41 years. I'm retired, but I have invested in the
21 commercial fishing industry. Since 1979 I have been a
22 part of it to the present. Like so many others in this
23 room, we depend on it for our livelihood. We are
24 subsistence users, a lot of us. In my off time in the
25 wintertime, I'm a full-time trapper. So I get to be a

1 part of Mother Nature and see how things are going out
2 there. More of a custodian of Mother Nature. Don't
3 overtrap. Take care of things.

4 I don't know if you have been to Igiugig, but if you
5 haven't, my in-laws -- Sonny Wilson being my
6 brother-in-law -- live up there. And if you want to taste
7 the best tasting water in the world, have one of the
8 people up there take you down to the river. Right out of
9 the river you could drink the water. Crystal clear, cold.
10 It's got an usual taste to it, in my opinion. It's very
11 good. And I hate to see that ruined. So if you do go up
12 there, go down there, take a drink.

13 And 20 years from now go back up there and take a
14 drink and see what it's like if the Pebble Mine goes
15 through.

16 Commercial fishing is a big part of our community.
17 We get a raw fish tax here from the salmon. It's 3
18 percent. And last year it equated to -- I think it was
19 3.7 million dollars in raw fish tax we took in from all
20 the harvested and processed salmon. Now, to put that in
21 perspective a little bit, if we didn't have the raw fish
22 tax, we would have to do away with something. For
23 example, we wouldn't have a police department, fire
24 department, parks and rec, library and a swimming pool.
25 And I'm not saying that's what we are cutting. I'm just

1 putting things in perspective here. So that's what this
2 salmon means to this community.

3 The most smartest -- the smartest scientists in the
4 world make assumptions or forecasts. They never say it's
5 going to happen on this date. Mr. Russell made a good
6 point of volcanoes. No one can tell what a volcano is
7 going to do, what it's going to devastate -- or how it's
8 going to devastate the area. For Pebble to come out and
9 say that it's going to be the safest mine in the world and
10 nothing is going to happen, they can't predict what Mother
11 Nature is going to do.

12 In essence, I think they are telling us a lie, and
13 they are lying to themselves. And I think -- I think
14 what's motivating this are two things: Money and greed.

15 Thank you.

16 LT. COL. PENNY BLOEDEL: Thank you, sir.

17 MR. JON ISAACS: No. 16.

18 MR. CONSTANTINE JOHNSON: Hello. My name
19 is Constantine Johnson. I've lived in Bristol Bay my
20 whole life, and I'm a commercial fisherman, a subsistence
21 fishermen, a hunter. I'd like to go on record opposing
22 the mine project. I do not think that the Draft
23 Environmental Impact Statement does a good job of
24 outlining and explaining what the potential impacts will
25 be on our way of life in our region.

1 Also, the DEIS does not explain in any detail what
2 the impacts will be if a major tailings failure occurs.
3 Our land and waters will be impacted now and for
4 generations to come. But the DEIS does not explain that.

5 How can we trust this process if we aren't guaranteed
6 that Pebble only will build a 20-year mine if they haven't
7 even proven that they will make any money doing so.

8 Without an economic feasibility plan, there is no rhyme or
9 reason to this project. The people of our region and of
10 Alaska deserve to know the specific plans details of this
11 project from the very beginning to the very end. The plan
12 and DEIS is also missing an adequate and detailed
13 reclamation plan. We do not know what will happen if a
14 magnitude 8.0 earthquake occurs on the site where the pit
15 and the dam will sit.

16 My family and I rely on the health of our salmon and
17 water systems and the health of our wildlife and our
18 communities. We believe Pebble will negatively impact our
19 traditional way of life.

20 Thanks.

21 LT. COL. PENNY BLOEDEL: Thank you, sir.

22 MR. JON ISAACS: No. 17.

23 MR. PETER CHRISTENSEN: My name is Peter
24 Christensen, C-H-R-I-S-T-E-N-S-E-N.

25 For a decade we have fought to protect Bristol Bay

1 from the proposed Pebble Mine. Growing up in Port Heiden,
2 136 miles south of here, fishing has been an important
3 part of my life and community. Generations of families
4 and others in the region have relied on salmon caught
5 commercially and for subsistence.

6 Families all over Bristol Bay have lived the same and
7 taught their subsistence traditions to younger
8 generations. This knowledge has been passed down for
9 hundreds of years, and a lot of it includes living off the
10 land and sea.

11 The salmon caught in our waters are known to be the
12 best in the world. Once the projected mine has started,
13 the dam will pollute the earth and water. Water pollution
14 will have a drastic impact on everything. Threatening our
15 salmon is the same as threatening our people.

16 Salmon can't spawn if the headwaters and streams are
17 wiped out. With the Pebble Mine being a possibility in
18 Bristol Bay, we have to do what we can to keep our
19 traditions and lifestyles alive. This would mean
20 preventing a projected mine from ever being established.

21 The vast amount of outcomes with our land are
22 undeniably devastating. No amount of treatment and care
23 of the mine can make up for water pollution and land
24 destruction that fall behind it. They can promise money
25 and wealth for the region, but not environmental or

1 economic stability.

2 We can't ignore established science regarding the
3 negative impacts of this mine. If we want future
4 generations to continue subsisting and keep our Native
5 traditions alive, the only choice is to keep the mine out
6 of Bristol Bay.

7 Thank you.

8 MR. JON ISAACS: No. 18.

9 MR. EVERETT THOMPSON: My name is Everett
10 Thompson, E-V-E-R-E-T-T T-H-O-M-P-S-O-N, and I live here
11 in Naknek. I'm happy to say that I am defined by and live
12 for mainly two things, and that's my family and our
13 salmon.

14 The decisions you make for our region will affect
15 those things for generations to come. What will the
16 future look like for my offspring and theirs? Will our
17 salmon and other renewable resources still support those
18 that still want to live here for a few more millennia or
19 will water degradation make it more difficult to subsist.

20 In the short time I have been able to look over the
21 draft EIS, I see a lot of language like "not expected to"
22 or "unlikely" to many of our concerns. And I see a small
23 tailings dam failure scenario rather than the worst that
24 could happen. I see a small mine impact and not an
25 expanded mine impact or the impact other mines and

1 development can have. I see a short-sighted socioeconomic
2 analysis rather than a long-term analysis when the mine
3 closes and it goes from a boom to bust economy.

4 We have a sustainable and renewal economy right now.
5 I also see a water treatment plant that hasn't been tested
6 and shouldn't be trusted to work in perpetuity, as we have
7 seen one recently at Gold King Mine stop working in severe
8 winter weather conditions. There is less water flowing in
9 our creeks and rivers at times. And when unlikely and
10 unexpected things happen, they can have extremely negative
11 effects.

12 I don't see seismic analysis that will give me
13 certainty that something catastrophic won't happen close
14 to the mine. I don't see a reclamation plan that I trust,
15 knowing many mines change ownership and end in bankruptcy
16 and Superfund sites. I see a polished, rushed report that
17 favors development of Pebble. I see the comment period
18 being too short, along with many other, including -- many
19 others, including Senator Murkowski and Sullivan.

20 I recommend you address my concerns and the concerns
21 of others and that you lean on the EPA's watershed
22 assessment for knowledge of this amazing and complex
23 hydrology of our area. Your job is to make sure projects
24 like this are safe. And a nonaction alternative, no mine
25 should not be left off the table.

1 And honestly, Pebble has no partners to develop this
2 project and recently sold and diluted a lot of their stock
3 to keep themselves employed.

4 I thank you for being here, but this is a waste of
5 your time and public funds and a waste of our time, energy
6 and money, as well. Nothing should be putting our amazing
7 resource that we have here at risk, a wild salmon
8 stronghold.

9 Thank you.

10 MR. JON ISAACS: Quick reminder. Cell
11 phones, if you can keep an eye on them and turn them off.
12 No. 19.

13 UNIDENTIFIED MALE SPEAKER: I'll stand down
14 for now.

15 MR. JON ISAACS: Okay. No. 20.

16 MS. LORRI COCKRELL: My name is Lorri
17 Cockrell. I was going to stand down, too, but why? You
18 know, there is a lot of people that have scientific
19 studies. You guys are doing your studies. But part of
20 the fishing is not just last season, but all the years of
21 sailboat stories. My grandpa, my great grandpa. All --
22 part of the fishing is just hearing all those great
23 stories. And we want to pass those stories on another six
24 generations. I've got five generations with my grandkids.

25 And yes, there is resources, but to go for another

1 resource for our resource, you cannot eat minerals, but we
2 do eat salmon. And it's not just us. Yes, we do catch
3 the salmon, but it's worldwide people that eat our salmon.
4 It's -- it's not just us. I got to spend ten years over
5 on the East Coast, and I got to know the chef, and he
6 would try to sell farmed salmon at the restaurants. And
7 he would say, yeah, we have salmon. But the people on the
8 East Coast said, well, is it Alaska salmon?

9 Right now FDA just approved Frankenfish. So to
10 get -- to produce Frankenfish for our salmon, please
11 don't. You know, really, take this in consideration. A
12 lot of scientific study. A lot of downright hearted
13 people that's done their paperwork. I'm just a fisherman.
14 I just go and check my net. But by golly, that stuff is
15 good and it's healthy. We don't want to eat Frankenfish
16 or the farmed salmon.

17 And you know, GMO food is already being stuffed down
18 our throats. We don't even know what we are eating
19 nowadays, but we do know what we are eating here with
20 salmon.

21 Thank you.

22 MR. JON ISAACS: Okay. No. 21.

23 MS. MAUREEN KNUTSEN: I have a written
24 thing to submit, but I want to just say that I support the
25 no action alternative, and I support extending the comment

1 period because it's a lot of information for people to
2 look through and try to understand and make comments on.

3 Oh, and my name is Maureen Knutsen. I've lived here
4 since 1975 and been living on salmon. Fished with my
5 husband. Built our house with the money we made from
6 Bristol Bay salmon.

7 And I just want to say that the true strength and
8 uniqueness of Bristol Bay salmon resources is the many
9 various components, from the myriad streams that together
10 add up to the whole. And this is an analogy from, like,
11 the University of Washington fisheries scientists. They
12 have been studying our fishery for 40-plus years. And
13 they say it's like a stock portfolio. You have all these
14 different components. And when one is doing well, then
15 maybe some other ones are not doing so well, but all
16 together they add up to a sustainable, profitable
17 portfolio. And that's what our salmon run is. And you
18 can't start taking out parts of it here and there and
19 expect it to stay strong and healthy like it is right now.

20 And so this is why we can't start digging up any of
21 our salmon streams. No matter how little they are, we
22 need them all because it's a renewable resource, and we
23 can't risk that for something that's, like, not
24 sustainable like Pebble Mine.

25 So that's all I have to say.

1 LT. COL. PENNY BLOEDEL: Thank you, ma'am.

2 MR. JON ISAACS: No. 22.

3 MS. LINDSAY LAYLAND: Good afternoon. My
4 name is Lindsay Layland, L-I-N-D-S-A-Y L-A-Y-L-A-N-D. I
5 believe that the only acceptable outcome for Pebble's 404
6 Clean Water Act permit application is the no action
7 alternative. The DEIS has revealed that Pebble has not
8 submitted enough adequate information to properly evaluate
9 the potential impacts that this mine and the related
10 infrastructure development will make on our lands, waters,
11 and the traditional way of life in Southwest Alaska.

12 After initial review, which I admit I haven't been
13 able to look through because it's 3,000 pages long with
14 appendices, the DEIS is lacking -- this is according to
15 scientists who my organization has hired to look through
16 because it's so intensive -- is lacking major components,
17 including an economic feasibility study, up-to-date
18 seismicity information, a major tailings dam failure
19 scenario, and detailed descriptions of the approach,
20 costs, timeline and logistics of a comprehensive
21 reclamation plan.

22 Pebble is either lying to its shareholders and the
23 Army Corps, or it's lying to the people of Bristol Bay
24 about its plans for this project. They are saying they
25 will only build a 20-year mine, but they are putting

1 forward plans that are more realistic for a 78-year mine.
2 They are saying that they are going to backfill the pit
3 with the ore, with the tailings, with the toxic waste that
4 comes out of it. If that happens, they won't make any
5 money.

6 What they are trying to do is submit an application
7 for a permit, get their foot in the door, and then request
8 an extension because it's the only way they will make
9 money. They don't have an economic feasibility study.
10 They don't have a health human impact study. They haven't
11 proven that they will make money with this plan.

12 In the past five years alone we have seen three major
13 tailings dam failures, one happening just a couple of
14 weeks ago in Brazil, killing hundreds of people and
15 destroying entire landscapes and waterways. I'm not sure
16 why that scenario isn't included in the Draft
17 Environmental Impact Statement. I know it's a low
18 probability that it will happen, but the impacts are huge.
19 I don't understand how it's adequate for this report not
20 to include such a critical element.

21 So my question is, what will happen if a major
22 tailings dam failure occurs at Pebble? What will happen?
23 We don't know because they haven't shown it.

24 The people of this region, the people whose
25 communities are near the mine site, local hunters and

1 fishermen, and the Bristol Bay commercial fishing fleet
2 and all Alaskans and regional stakeholders deserve to know
3 the potential scenarios of such a catastrophic failure.

4 I'm also confused and frustrated as to why the Army
5 Corps and the Pebble Partnership haven't found it
6 necessary to translate essential DEIS documents into
7 Yup'ik, Alutiiq and Dena'ina, the indigenous languages of
8 the region. This did happen at Donlin, and I know that
9 Donlin and Novagold were behind that, but it seems like a
10 pretty valuable piece for the people of this region to be
11 able to understand these documents in their own languages.
12 It's a major disservice to the people of this region,
13 including western Bristol Bay, the Nushagak, the Alaska
14 Peninsular and the Iliamna and Lake Clark regions not to
15 include that information.

16 As some of you know in the room, I work for a tribal
17 government consortium, and we constantly have people,
18 stakeholders, members, who ask us what is going on with
19 Pebble. We feel there hasn't been proper community
20 outreach by both the Pebble Partnership and by the Army
21 Corps to inform people of what's going on. They ask where
22 we are in the process, what's happening. People don't
23 even know that Pebble has filed a permit because of the
24 lack of information going out to communities other than in
25 a single tribal letter or in an online post on the Army

1 Corps website that many people don't even know exists.

2 I'd also like to comment on the 90-day comment
3 period. I did some quick math over there, and there is
4 over 1,600-page Draft Environmental Impact Statement with
5 over 1,500 pages of appendices. If I were to read 35
6 pages a day, I would finish reviewing, looking through it,
7 by the 90-day comment period. If I wanted to give myself
8 a week to come up with a substantial comment, I'd have to
9 read 40 pages a day of the DEIS. And I don't understand
10 how 90 days is deemed sufficient for a comment period for
11 a project of this size.

12 I also know that the Army Corps is required to take
13 into consideration the scope and the complexity of a
14 project to determine the comment period length. This is
15 the largest open pit mine with massive infrastructure and
16 a massive megawatt power plant to be located at one of the
17 most sensitive environmental ecosystems on the planet, and
18 we are given 90 days to comment on it. I think that's
19 pretty absurd.

20 So again, I think the no action alternative is the
21 only appropriate outcome for this permit application.
22 Thank you for your time.

23 LT. COL. PENNY BLOEDEL: Thank you, ma'am.

24 MR. JON ISAACS: No. 23.

25 MR. JACK MARDESICH: My name is John

1 Jack -- nickname Jack -- Mardesich, spelled
2 M-A-R-D-E-S-I-C-H. I have been fishing here since 1974.
3 My father arrived here in 1952 with a 225-foot freezer
4 ship that freezed fish with 13 of his sailboats converted
5 with engines in Seattle. He knew about some politics. He
6 spent 30 years in the Washington State Legislature,
7 majority leader of the House and the Senate while that 30
8 years passed. Check the history as he had. Check the
9 history. It probably relates to my nickname Jack, which
10 is not a favorite nickname. I'm not here for a hand at
11 the end, please.

12 I'm pretty disheartened about the whole thing. I
13 feel helpless, anger, frustration. And for me, a kind of
14 answer that answers to futility. It's easy to be the way
15 I like to be because it's easy to do. So I can't get into
16 all that. You can check public record on that if you
17 want.

18 This person here has no authority to solve our
19 problems. This is a mechanism of the government. This
20 person takes orders. Happens three years ago when our
21 local government was changed and our state government from
22 senators, not Begich, not governor, to what we got now,
23 Dunleavy, who has clearly made his stance now. It wasn't
24 so clear when he was talking in the gym last year. So I'm
25 feeling pretty helpless. And I usually don't get up on

1 camera. I try to avoid that. But if I'm going to do
2 anything, I might as well be on the record.

3 I want to talk about the ferry. I want to talk about
4 Exxon. Really, I just want to mention these things. I
5 want to talk about water quality from corporations and
6 what they do about it. I want to talk about homeland
7 security. I want to talk about a Canadian company that's
8 run by Chinese, controlling our resource and where that
9 investment is going.

10 I want to talk about my greed and how I want the
11 mine. I want the mine because I want to make some money.
12 This is pioneer territory. I can come in and jack half
13 you people for your money because I know how to twist you
14 up lying to you.

15 Remember Valdez? Anybody seen that film lately, what
16 the mayor did, any of you knew the mayor of Cordova?
17 Valdez? He's dead, by the way. Suicide.

18 And what did that guy, the spokesman for Exxon, say
19 after the spill? We are going to do this and that.
20 Anybody, did you get a settlement from Exxon? Wasn't 900
21 or 1.4 billion.

22 Oh, and I'm almost dead. I can't go on with all
23 this. But I suppose this relates to me working in a
24 prison grievance system in the Department of Corrections.
25 If we let them vent, that will release half the pressure,

1 as if us 50 people are going to make a difference to
2 their -- how many lawyers you guys got working for you?
3 So I'm starting to spew my vehemence and my negativity,
4 which relates back to my nickname.

5 But this is about my greed to get your money, whether
6 I put up a shop and start selling helicopter rides up to
7 the competition because there is going to be business, or
8 the highway that they got put in here or over there.
9 Because it was needed? No. Because we saw way in advance
10 this has been coming. This has been coming. That's why
11 three years ago, just like our local government, this
12 person got put in office.

13 There is no authority here. This is a military
14 official. They take orders. They take orders and do what
15 they're told.

16 And in the year of, what is it, pink ribbon thing,
17 fix me or something me? Something about females getting
18 abused the last 50 years. Mad men advertising style. I'm
19 waking up to that now. I'm waking up to that now, and I
20 appreciate it. And if women have been that repressed that
21 long, you think the military has caught up with that?
22 What can we really do about this? The only thing I see is
23 the youth and mass news, Internet.

24 Other than that, my old man always told me if don't
25 got the masses, you really got nothing. But do you even

1 have anything then? Where is our mechanism of authority?
2 They are up here talking about, what can we do with this?
3 They are talking about they don't even have authority over
4 such - section what did she just say she does? This is
5 just a venting.

6 So I'm going with the money. I'm going to burn my
7 heart doing it. Because if I don't make enough money and
8 get myself into Belize, I'm going to be sucking acid out
9 of the water here. And whatever I have been sucking on
10 enough already, you can see what you got there.

11 LT. COL. PENNY BLOEDEL: Thank you, sir.

12 MR. JON ISAACS: No. 24.

13 MS. NANCI MORRIS LYON: Good afternoon.
14 I'm Nanci Morris Lyon. I'll give you my sheet so you have
15 the spelling. I'm owner and operator of Bear Trail Lodge,
16 a commercial sportfishing operation located on the
17 confluence of King Salmon Creek and the Naknek River. I
18 have been active in the Bristol Bay and statewide
19 fisheries for more than 30 years. During that time I have
20 lived in King Salmon. I'm a subsistence user and
21 concerned citizen.

22 I have been involved in the Pebble debate since
23 longer than I care to remember. Since the debate began, I
24 have birthed and raised a daughter. She became a
25 full-time fishing guide and now carries on our family

1 tradition. I have gone from being a single guide operator
2 to the owner of a five-star lodge. These accomplishments
3 have taken place over the same span of time that the
4 Pebble Partnership has tried to convince us as residents
5 and you as land overseers that this mine is a valid idea.
6 It is not, and it will not be for as long a time until
7 it's safe enough to consider.

8 You are talking about Bristol Bay, a place that has
9 no equal in the world when it comes to sportfishing. This
10 prolific historic and world-renown fishery was totally
11 downplayed in the impact statement. It virtually ignores
12 the potential impacts that we could suffer even without a
13 catastrophic failure on the mine's part.

14 People from all over the world have come to Bristol
15 Bay since the birth of flight to fish its crystal clear
16 streams and have an opportunity to land a fish of a
17 lifetime. With the type of infrastructure that is being
18 proposed in this miniature mine footprint, these qualities
19 will be lost. And that was not even mentioned in the
20 study. No one comes to Bristol Bay to fish below a bridge
21 or listen to an early morning explosion or hear heavy
22 equipment in the distance, creating what appears to be a
23 dust storm.

24 The infrastructure Pebble would bring would change
25 the face of Bristol Bay sportfishing industry permanently,

1 and not for the better. It would take away jobs and
2 opportunities from the community.

3 I take in adults into my lodge each year and give
4 them an opportunity to learn a trade and how to be
5 responsible. I open my lodge to the community all summer
6 and winter. Folks are welcome to stop in for dinner or to
7 enjoy some guided fishing in the summer. In the winter,
8 many entities use my lodge to host Christmas parties, hold
9 meetings and host public gatherings. The lodge has
10 weddings. We've celebrated high school seniors, and we
11 have given families an opportunity to mourn together. It
12 raises funds that allow our young people better
13 opportunities in athletics and scholastic scholarship
14 competition, all things that give value to my business and
15 the right to have had a more careful approach taken into
16 the consideration of the sportfishing industry in this
17 study.

18 I'm a business person, and not necessarily that sharp
19 at it. But even I can recognize the fact that this impact
20 statement is only addressing a very small mine footprint,
21 one that would never support what the final mine will have
22 to look like in order to become financially profitable.
23 But for some reason, future expansion of the mine has not
24 been addressed, nor was the possibility of a catastrophic
25 failure.

1 After the recent November earthquake, I expected the
2 catastrophic failure would certainly be addressed. This
3 is our home. This is a piece of America that cannot be
4 replaced. We deserve a much more thorough and careful
5 evaluation than what this impact statement offers.

6 The message I would like to have taken back to
7 Washington, D.C. on my behalf is that the material that
8 the current DEIS brings forward is incomplete,
9 unscientific and totally unacceptable. Thanks.

10 LT. COL. PENNY BLOEDEL: Thank you, ma'am.

11 MR. JON ISAACS: No. 25. Do we have a No.
12 25? No. 26?

13 MS. TERESA CATLIN: My name is Teresa
14 Catlin. I'm a nurse practitioner here at the Camai
15 Community Health Center, but before I came to Alaska to do
16 something completely different, I did environmental
17 analysis for 17 years in the Lower 48 for the Forest
18 Service.

19 And I think those of us who do that kind of work
20 understand that decisions are not made by science.
21 Science can't tell us what the right decision is.
22 Decisions are made on the basis of values. And so even if
23 you totally agree on what the consequences might be or you
24 don't have any problems with what the scientific analysis
25 has told you about effects, it doesn't make your decision

1 because it's all about values and whose values will
2 prevail.

3 And I think that's the most -- for me one of the most
4 important things here is that I would really like to see
5 the economic analysis be very explicit in the assumptions
6 that were made to analyze the economics of this thing. I
7 think we really need to follow the money. Where is the
8 money going? Who all is it going to?

9 I think that's part of the decision that hasn't been
10 given enough weight because I think what's at risk here is
11 something that's incredibly unique and precious and
12 doesn't exist anywhere else in the world. And so the
13 short-term profits which is -- if you are looking at 20
14 years or you are looking at 80 years or you are looking at
15 300 years is a pretty short span compared to the resource
16 that has been here for thousands of years that's been
17 feeding people and will continue to do so if we take care
18 of it properly.

19 So is any potential risk worth it? Is it worth it?
20 I mean, that's a value. That's a value. And so decisions
21 being made on values, remember that. Whose values will
22 prevail?

23 But as far as the analysis itself goes, I would
24 really like to see a more thorough economic analysis so we
25 know who is profiting from this, by how much, and that, I

1 think, will help some people maybe that are unconvinced
2 make some decisions about the answer.

3 Thank you.

4 MR. JON ISAACS: No. 25. Did No. 25 show
5 back up? 25? Okay. 27.

6 MS. ANN SHANKLE: My name is Ann Shankle,
7 and I live here, right here in Naknek, about a mile from
8 here. And I'm most concerned about the long-term
9 cumulative effects of what could happen here with this
10 planned mine. This is such a huge deposit. Four
11 companies have already pulled out, realizing the possible
12 problems and impacts. The possible failures have not been
13 completely analyzed in this statement and could have
14 massive impacts on this area.

15 I'm not just concerned about what could happen in my
16 lifetime, but a mine that needs perpetual treatment
17 forever, that's a long time and hard to analyze everything
18 that could happen. Dam failure scenarios and serious
19 failure, earthquakes, it's all difficult to predict and
20 hasn't really been completely analyzed, I don't believe.

21 We need to protect Bristol Bay. We have got an
22 amazing one-and-a-half-million-dollar fishery here that we
23 really are protecting and need to protect and need to
24 continue. And I think this Environmental Impact Statement
25 isn't really completely protecting the bay here, and I

1 think we really need to consider not having a huge mining
2 district here.

3 Thank you.

4 LT. COL. PENNY BLOEDEL: Thank you, ma'am.

5 MR. JON ISAACS: Do we have No. 28?

6 No. 28? Is there a No. 28 that wants --

7 MS. PATRICIA EDEL: My name is Patricia
8 Edel. Last name is spelled E-D-E-L. I'm sorry. I just
9 rolled in. I think I missed any presentation that you
10 guys were giving.

11 So I just want to give a short synopsis of my
12 disappointment with the EIS. I think it should have been
13 a lot more thorough. I think the long-term impacts, as
14 Ann just said, should have been more in depth.

15 I've lived here for 21 years. I'm a schoolteacher
16 here. I have a business, a summer business, on the river.
17 I think we really have to be concerned about what this is
18 doing for the younger generations, for the kids I'm
19 teaching at the school. If something does go wrong, how
20 drastic is the impact going to be? How is it going to
21 change the community?

22 I think this community is doing very well with a
23 successful, sustainable fishery as it is. I don't see any
24 reason to -- I don't think we need another source of
25 income that could potentially threaten what we already

1 have going.

2 So I think my concern is mainly for the kids. We
3 talk a lot about -- in class there is a lot on the news.
4 There's a lot of concerns that they have. And none of
5 them are feeling secure about what's going on with the
6 mine. And I think there needs to be more confidence from
7 you guys if you are going to move forward with this.

8 Thank you.

9 LT. COL. PENNY BLOEDEL: Thank you, ma'am.

10 MR. JON ISAACS: Okay. I think that's the
11 last number we have given out. There is a couple of
12 people who we skipped or people who perhaps thought twice
13 about speaking. Is there anybody else here who would like
14 to testify tonight who hasn't had a chance? This might be
15 a good time to take a break.

16 LT. COL. PENNY BLOEDEL: I agree.

17 MR. JON ISAACS: Why don't we take perhaps
18 a 15-minute break. Again, for those who weren't here
19 early on, we do have a series of posters in the back that
20 sort of talk about the NEPA process, the EIS process, what
21 were some of the resources looked at, how to make
22 effective comments. We do have folks from the Corps of
23 Engineers leadership and the project management team here
24 to talk to you. So let's take about a 15-minute break and
25 then we will see if anybody else is interested in

1 testifying.

2 Thank you so much for your testimony.

3 (A break was taken.)

4 MR. JON ISAACS: We have, I think, at
5 least two more who want to testify. I think we had a
6 No. 29 somewhere. Somebody have 29? There we go. 29,
7 come up, and the gentleman there will be next.

8 MR. RALPH ZIMIN: For the record, my name
9 is Ralph Zimin. Z-I-M-I-N is how it's spelled.

10 I got here a little late, so I'd like to speak to the
11 fact that this EIS study, I think there needs to be a
12 little more time on this. I noticed also that for the UCI
13 area, Cook Inlet side, since a new proposal is going in,
14 there is only two communities that are going to have
15 testimony, which is kind of interesting because now the
16 Cook Inlet people are going to be involved.

17 Giving you history, I'm a third-generation fisherman.
18 I have my granddaughters, which are grown and one
19 graduating this spring, that fish. Five generations. So
20 speaking to the fact of impact studies, I'd also mention
21 that I spent 29 years in the oil patch. And you know,
22 they do impact studies trying to decide what's right, what
23 they should do, and possibly hopefully do it as well as
24 they can.

25 It's interesting, though, in my lifetime up there,

1 they had to go back and start reclaiming the pits, the
2 reserve pits, because at the time when they started out,
3 what was okay, was clear to do, was just dump it in the
4 open reserve pit. So you had animals, birds especially,
5 you could have airborne -- these tailings were -- they
6 were right out there everywhere, just similar to what's
7 part of the problem that's going on here. I don't think
8 they have covered it very well.

9 So the thing that came to my mind is I wondered why,
10 after spending 29 years in the oil patch, why did it take
11 them so long to figure this out and act upon it. So what
12 they did is they gathered it up, they compressed it, put
13 into these little balls, and grind in the ball mill, and
14 injected it back into the earth. The interesting point is
15 it took time.

16 Secondly, another point that I would like to bring
17 up, we have had -- I've had my bosses up there that came
18 from Montana and Idaho, and they expressed that a lot of
19 times the studies are not all that they should be. They
20 don't cover everything. So I gave that some thought.

21 The other thing is, looking at the fishing side of
22 it, years ago there were these people that had decided
23 what was best for their community, the area. They created
24 this dam. When I got involved in it, studying this and
25 watching -- it was not a lot of money, but years later, it

1 reached 168 million to figure out how to solve a problem
2 of two and a half million fish looking for spawning stock.

3 I was told at the most recent Area M meeting I went
4 to in Anchorage that they actually removed the dams. I
5 don't know that for a fact, but I'd be happy to know if
6 that were the case.

7 The thing was -- the important thing is that we
8 should never forget, in environmental studies a lot of the
9 masterminds of the time are coming up with a lot of these
10 ideas. And they actually think pretty much that they have
11 all the right ideas, but it's obvious that they don't.
12 The Elwha Dam was a complete, total example of how could
13 anyone think that they could stop the spawning stock and
14 not have an impact. It's kind of interesting.

15 So that's the things I'd like to look at is we
16 have -- even though we have had our ups and downs,
17 certainly times of these fish, but we have sustained
18 ourselves here, and that is the only industry that's here.
19 The mine falls into the category, what I look at, like I
20 spoke at the mayor's meeting this last week, oil is a
21 renewable -- a nonrenewable. Fish is a renewable. These
22 minerals that are going to be taken out, it's a one and
23 done and you are gone.

24 The problem is what we will also find out in the
25 history of reality, when you reach a point in time if you

1 have a catastrophe like this dam breaks or whatever, if
2 there isn't enough money to cover it, you know what? The
3 company just files bankruptcy. There has been a lot of
4 movies on TV lately about that in the last, say, 30 years
5 in the United States showing these things happening.

6 And this is what I'd like us to consider, that we
7 need to make certain that we are doing all that we can to
8 make it a lot better and look for more so into the future
9 to see what's -- some of these problems that are going to
10 exist. In my case, what I'm speaking on, I actually lived
11 this. It's a whole different thing when you are looking
12 at data sheets and this and that.

13 But when you spend all this time, like I did both in
14 the oil patch and commercial fishing, I'm speaking -- I
15 spent all my life trying to save this fishery and keep it,
16 you know, lucrative, make it -- it is the only industry
17 here. We cannot make certain mistakes. And I think we
18 should spend more time and be -- with Cook Inlet with this
19 new proposed plan that they have, now it brings the Cook
20 Inlet people into it. So it is not just Southwest, it is
21 Southcentral as well that's going to be affected by this.
22 Thank you.

23 MR. JON ISAACS: Is the gentleman here who
24 we skipped? And we may have a No. 30 on top of that.

25 MR. DENNIS MATSON: Hi. I'm Dennis

1 Matson, and I oppose the proposed Pebble Mine. Therefore
2 I urge you to select the no action alternative. The risks
3 to Bristol Bay and our way of life are too great. Pebble
4 Limited Partnership's proposal would permanently destroy
5 the salmon habitat, require water treatment in perpetuity,
6 and create substantial risk to the people of Bristol Bay.
7 And so I oppose the Pebble mine.

8 Thank you.

9 LT. COL. PENNY BLOEDEL: Sir, thank you.

10 MR. JON ISAACS: Do we have a No. 30? Is
11 there a number 30 that signed up?

12 MR. DAVID DRISCOLL: My name is David
13 Driscoll, D-R-I-S-C-O-L-L. I'm a commercial fisherman
14 here. I live here with my wife and child. I'm opposed to
15 the mine. It's not really a matter of if; it's a matter
16 of when an earthquake would happen. Ring of Fire is
17 probably a good description of the area it's on top of.
18 You can think of Fukushima. 100-some odd years ago there
19 was a massive earthquake, a volcanic eruption here that
20 changed everything. Many volcanic eruptions in the past
21 30 years. That's about it. It -- it's just not worth it.

22 20-year life span of the mine, I believe -- that's
23 what they are saying -- versus a renewable resource. I
24 guess these things have all been said tonight, I'm sure,
25 but that's what I got.

1 Thanks.

2 LT. COL. PENNY BLOEDEL: Thank you, sir.

3 MR. JON ISAACS: Anybody else who has
4 signed up or has not testified yet that would like to
5 testify?

6 MR. DAVID HOBBIE: John, I think we are
7 going to have a No. 31.

8 MR. JON ISAACS: Is there a No. 31? 30?
9 30 and a half?

10 MS. CHANTELLE HAZENBERG: I just got here.

11 MR. JON ISAACS: So we will be here until
12 7:00 tonight. We are expecting more people to come in.
13 There is the opportunity to speak to the court reporter in
14 private if you are more comfortable doing so. If we have
15 nobody else that wants to testify in public right now -- I
16 know we had one gentleman -- I don't know if he's still
17 here -- who was interested in testifying in private. He
18 may have -- still here. He is still here. So that would
19 be another option, depending on what you would like to do.
20 If you would rather testify in private, we can allow that
21 to happen now for those two individuals, or you can
22 testify in public.

23 MS. CHANTELLE HAZENBERG: I'll just do it.

24 MR. JON ISAACS: If you could state your
25 name for the record and spell your name for the court

1 reporter, please.

2 MS. CHANTELLE HAZENBERG: So my name is
3 Chantelle Hazenberg, C-H-A-N-T-E-L-L-E H-A-Z-E-N-B-E-R-G.

4 Well, I grew up here. I have been around the fishing
5 industry my whole life, and even though I don't partake in
6 commercial or subsistence fishing, I do other jobs that
7 support people who do do that. And I think that the
8 effect of any sort of large scale, small scale, even,
9 mining would be a disaster. It wouldn't -- I just don't
10 think the risk is worth it for, you know, the amount of
11 people who already have jobs doing what they do here and
12 all the livelihoods that depend on just this one aspect of
13 it, let alone, you know, the environmental effects
14 elsewhere.

15 Yeah. That's it.

16 LT. COL. PENNY BLOEDEL: Thank you, ma'am.

17 MR. JON ISAACS: Anybody else who would
18 like -- okay.

19 MS. SHIVANI KAKDE: My name is Shivani
20 Kakde, S-H-I-V-A-N-I K-A-K-D-E. I teach social studies at
21 the middle school/high school here. Me and my husband
22 have lived in the bay region for the last -- this is our
23 second year. And we have lived in Alaska in various
24 places for the last seven years. You think I'd be good at
25 public speaking as a teacher, but I get nervous, too. We

1 have been studying a lot of the Environmental Impact
2 Statement this past week, and a few of the things that
3 initially come to mind is the length of the comment
4 period. This is a 1,400-page document with only a 90-day
5 period. Even for my students reading the 80-page
6 executive summary in a week was quite a task. And I don't
7 think they all completed their homework. Sorry, parents.

8 So hopefully they were here earlier and asked the
9 questions that they felt were important for their
10 livelihood. This is an issue that will impact them in the
11 future generations much more. And some of the comments
12 that have been made by my peers here.

13 20 years for the molybdenum, the copper, the gold
14 when salmon is a renewable resource, it just doesn't make
15 sense to part with indigenous values, with the region's
16 history of livelihood, with the fishing industry here.

17 The no action plan, I think, would be the best plan
18 for the Environmental Impact Statement, the very first
19 option where they don't go on with permitting it is my
20 public statement. But also thinking about getting a
21 longer period for commenting due to the nature of this
22 document, being 1,400 pages, and people needing time to
23 really read it and know exactly what the mitigation plans
24 are for the tailing dams and creating the tailings dam.

25 An earthen tailing dam in a volcanic area and the

1 mitigation factors that they need to consider for that for
2 keeping the tailings out of the water and disrupting a
3 sustainable resource, as some people stated much more
4 eloquently than me.

5 So that's my statement. Thank you.

6 LT. COL. PENNY BLOEDEL: Thank you, ma'am.

7 MR. JON ISAACS: Is there anyone else who
8 would like to testify in public? Second chance. Second
9 chance. There is plenty of time. And if you could
10 restate your name for the record, please.

11 MR. RICHARD RUSSELL: Yes. My name is
12 Richard Russell. And I got here in 1969. So I was too
13 late for the 1964 Good Friday earthquake, which was the
14 largest earthquake in North America, I think, on record.
15 I might be wrong on this, but it's one of the largest
16 ever. And probably everyone has seen the news reports of
17 what that did around Anchorage and Valdez and Kodiak and
18 such.

19 I was a fisheries biologist that managed the Egegik
20 and Ugashik commercial salmon fisheries for years. And in
21 speaking with some elders from Ugashik village, which is
22 approximately 340 miles west of the epicenter of that
23 earthquake, they told me that that earthquake changed the
24 depth of the Ugashik River so that they could not take
25 power boats any longer up the river from Ugashik Bay into

1 Ugashik Lake. And now if you try to do that, you can
2 hardly get through with a short shaft outboard motor on a
3 skiff.

4 So that's just to show that even some massive
5 geotechnical or geothermal type activities, tectonic
6 activities that occur perhaps miles and miles from the
7 proposed site of this proposed development could have
8 spin-off effects much farther away than perhaps the people
9 who have been looking at this particular mine site might
10 expect. And having just come from the 7.1 earthquake this
11 last November 30th in Anchorage that generated a 4.1
12 magnitude aftershock this last week still in Anchorage,
13 that I think is probably still a pretty significant thing
14 that should be thought about.

15 There may be some Mother Nature actions far away that
16 could affect this mine site that maybe we are not even
17 considering.

18 So thank you very much.

19 LT. COL. PENNY BLOEDEL: Thank you, sir.

20 MR. JON ISAACS: Is there anyone else who
21 would like to testify or add more to what they have
22 already said?

23 MS. SHARON THOMPSON: My name is Sharon
24 Thompson, just like it sounds. Just out of respect for my
25 friends and neighbors who have the guts to stand up and do

1 this, it's not really fun for anybody, I don't think, but
2 I was born in Alaska. I did grow up in Butte, Montana for
3 a lot of years. And I think a lot of people know that the
4 Berkeley Pit is the -- what remains of hard rock mining
5 for copper, and it's a huge Superfund site. And that's
6 high up in the Rocky Mountains where it was all hard rock.
7 Here in Bristol Bay is a completely different story.

8 So having lived in Bristol Bay for ten years, I've
9 followed this and I've studied it a lot. I'm not an
10 expert, by any means, and I'm still going through the
11 executive summary of the EIS.

12 So the first thing I have to say is it's far too much
13 information and far too important to only have a 90-day
14 comment period. It's just really not fair. And if you
15 could extend that, that would be very much appreciated.
16 It's the right thing to do is to extend that period for
17 people to adequately process the information and give you
18 good feedback.

19 So as I do that, I just wanted to, along with my
20 friends and neighbors, say I completely oppose Pebble Mine
21 for the obvious reasons. But one thing that has come up
22 lately is food security. Food security. This renewable
23 resource that comes back every year is a lot of people's
24 PFD in this area. It's hundreds of pounds that people put
25 in their fridge and freezer, not to mention sharing with

1 their family. And that's not commercial. That's just
2 what people need to eat. So that's one thing. And the
3 other -- and I don't know if that's addressed yet. I
4 haven't heard that addressed yet.

5 And the other environmental impact issue that I
6 haven't seen addressed is the seismology. And you know,
7 the 7.1 earthquake that happened north of Anchorage, I
8 felt it here only because I was up really early for a
9 business meeting. But I was on the phone, and I felt it.
10 And the Pebble site is a lot closer to Anchorage than
11 here.

12 So when I watched Mount Polley tailings dam fail
13 for -- they don't even know why. I don't believe that
14 anyone can guarantee that anything could keep that from
15 happening. And that's just one tiny, little fraction of
16 all the huge concerns that I have about this project.

17 So thank you for coming out here and taking our
18 comments. And I believe you should be going to other
19 villages and towns, too, that can't afford to fly here or
20 can't leave their jobs to fly here.

21 So thank you.

22 LT. COL. PENNY BLOEDEL: Thank you, ma'am.

23 MR. JON ISAACS: Is there anyone else? So
24 maybe a suggestion or two. It sounds like we might have
25 another group coming over sometime after 6:00. And the

1 gentleman who has been waiting to testify in private, this
2 might be a good time.

3 One question, ma'am, I had in your closing remarks.
4 Is there anything you might want to say in terms of your
5 closing remarks to some of the folks here so if they don't
6 want to stay around for another hour or so, if that's
7 something worth considering?

8 LT. COL. PENNY BLOEDEL: Well, I don't do
9 very well off script, but I do want to thank everybody
10 for -- thank everybody who has been here for what the
11 last -- I can't really see the clock, but three hours
12 plus, I think, since the first folks started coming in. I
13 really appreciate you guys all taking the time to come and
14 speak. I know it's hard to speak in public, for one
15 thing, and it's hard to speak when you are passionate
16 about something, as well. So don't think I haven't heard
17 what everyone has been saying today.

18 I also want to thank everyone for their understanding
19 again with the venue change. I'm glad everyone was able
20 to find your way over here to be able to talk. And just
21 thank you for the hospitality here and in the Bristol Bay
22 region and here in Naknek.

23 I do want to say we are committed to open,
24 transparent communication, and it includes a collaborative
25 approach to engage as many folks as we can --

1 stakeholders, community members -- who have something they
2 want to say about this action.

3 We will continue to make everything available on our
4 website, pebbleprojecteis.com. I know stuff gets updated
5 as soon as possible. And I know that kind of sounds like
6 generic timing, but we really have committed to get stuff
7 posted as quickly as we can. But I want to say and I hope
8 I say -- I did practice -- guyana, and thank you to all
9 who have come so far. And you are welcome to stay as long
10 as we are here.

11 MR. JON ISAACS: So with that, we will
12 temporarily close the public hearing, and the gentleman
13 who would like to come up and testify in private. If
14 there is anybody else who would also like to testify in
15 private to the court reporter, this is also is a good time
16 to do it.

17 MR. RICHARD WILSON: My name is Richard
18 Wilson, and I'm a resident here of Naknek. And what I've
19 got to say is, as you guys -- this is the first stop that
20 you guys have to do this. And you are going to go into
21 some communities that are much smaller than this and with
22 various opinions. And you can tell that this community
23 here is very much fish based. Subsistence and fish. You
24 know, all sorts of things here.

25 As you get into Lake Iliamna -- because I lived 14

1 years of my life up there, and my history is in Lake
2 Iliamna, Lake Clark, all that area. My mother was born in
3 Lake Clark. And the people are kind of shy. They are a
4 little harder to come out and do this kind of forum. So
5 that's why I wanted to actually get it -- you know, here
6 you have people able to afford coming up out of Seattle
7 and different places, and you got a lot of that happening
8 here. And you are going to have that group also following
9 you around. And one thing I would suggest is that you ask
10 the people where they are from. Okay.

11 Because when you get all this put together and you
12 are going to say, well, I visited Naknek and they had 100
13 people. And it's going to -- it's going to look like that
14 100 people were from Naknek. Well, they are not. You are
15 going to have the same thing going on up there. We see
16 this all the time. I'm on several boards, councils in
17 this area. You see people traveling -- when there is an
18 issue, you see groups of people that can afford --
19 somebody is going to pay their bill. They are going to
20 travel with all these groups, and they are going to speak
21 at every single one of these hearings that you guys are
22 going to have.

23 And so just to caution you guys that there is
24 people -- these other communities are much smaller, but
25 the same value is there. I mean, you are going into their

1 community. It's their lifestyle. It's their country,
2 just like this is ours here. I'm kind of both ends here,
3 and I'm very open-minded. We have a lot of family up
4 there that so far since these mining projects have been on
5 the move into exploration and stuff, put a lot of families
6 to work. So I've got -- you know, I've got stuff going on
7 on both sides here, and some good, some bad. But I just
8 want to get the word out that you need to start asking
9 them where they are from. Keep track of where these
10 people are actually from and where they are talking from
11 because a lot of these people here that testify today are
12 from the Lower 48 and they come up here, they fish here
13 and they take the resource and they go.

14 So I got a little different feeling on what they
15 actually see here and what's going on in this community
16 because they don't live here.

17 So keep in mind that, just keep -- the smaller
18 villages, sometimes it's a little hard to get out of the
19 woodwork and get comments. So be lenient or whatever.
20 You know, patient, I guess, is what I want to say once you
21 get there because you are not going to hear -- you will
22 hear some strong voices, and a lot of times the strong
23 voices are not really what's being thought of, you know.
24 So okay.

25 LT. COL. PENNY BLOEDEL: All right. All

1 right. Thanks. Appreciate it.

2 MR. JON ISAACS: Thanks for your patience.

3 MR. MARVIN OLSEN: I don't want the mine.

4 I'm a fisherman. My kids are going to take over when I
5 give up. And hopefully it keeps on going. The mine is
6 not -- ain't good here. So I want my kid to fish some
7 day, so -- hopefully. Don't let it go through, please.

8 So okay. Thank you.

9 MS. SARAH LANG: Sarah, S-A-R-A-H. Last
10 name Lang, L-A-N-G. I just wanted to make the comment
11 that I feel that the entire process in which the draft EIS
12 was written seems very rushed and, as a result, it seems
13 like there are a lot of gaps in the information that is
14 being provided, and the potential scenarios that could
15 impact the environment on the proposed site were
16 overlooked.

17 For example, the potential impacts of seismic
18 activity, the potential impacts of melting permafrost
19 having an effect on the holding dams. And I also don't
20 think that the potential impacts for the entire watershed,
21 the area surrounding the proposed site, as well as down
22 here into the Bristol Bay where the effects would
23 potentially go and reach out to, I don't think that that
24 was adequately -- those were adequately explored.

25 I also would like to echo some folks that spoke

1 before me in that a 90-day comment period is much too
2 short for the size of the Draft Environmental Impact
3 Statement that is put out for public comment right now.

4 Thank you.

5 MR. CYRUS KVASNIKOFF: Cyrus Kvasnikoff,
6 C-Y-R-U-S K-V-A-S-N-I-K-O-F-F. I'm from Alaska, been here
7 the majority of my whole life. I fished, commercial
8 fished the majority of my life.

9 And I don't think the EIS adequately, I guess,
10 studied about the fish population if there is a
11 catastrophic dam failure because once they dig in the
12 tundra, it's going to melt the permafrost and the majority
13 of the soil in the tundra is clay, and if they dig --
14 barrier that, put barriers into that, over time the
15 permafrost is going to melt and it's going to get water
16 down there, ruin the watershed. And once that happens,
17 all the weight from the barrier is going to move the clay,
18 and all that is going to collapse and put all that
19 wastewater in the streams and run down all the watershed.
20 And I don't want that to happen.

21 I got a kid on the way, and I really want -- I want
22 them to at least try and get the experience in the
23 commercial fishing throughout their life, and I want to
24 teach them that way of commercial and subsistence the way
25 we are here.

1 And especially with the villages up there, Iliamna,
2 Newhalen, Kokhanok and all that, they -- I mean, it's
3 going to be -- the mine is probably going to be at their
4 back door. It's their whole subsistence hunting, fishing,
5 berries and all that. Once they do that, it's going to
6 scare off all the wildlife. The moose, caribou and all
7 that stuff, it's going to scare them all away. It will
8 ruin the whole habitat there for them to come back, and
9 it's never going to be the same ever.

10 MR. CHRISTOPHER KLOSTERMAN: I am not in
11 favor of moving forward with Pebble Mine. I grew up,
12 lived in Alaska all my life. I'm a business operator in
13 King Salmon. My wife is a commercial fisherman. And I
14 just don't see at this point the risk of impacting the
15 region with any kind of potential disaster associated with
16 large scale mining. I don't see the benefits of it right
17 now. I don't think it's the time. I think maybe in the
18 future it could be -- could be something that would be
19 viable, but right now if it's not broken, don't fix it.

20 I think we have got a good economy right now and it
21 has a lot of room to grow as it is without large scale
22 mining. And I think as a whole, it's going to benefit a
23 few, and that's it.

24 So I'm against -- I'm against it. I don't believe --
25 I don't believe in it. That's it.

1 MS. SARAH MITCHELL: Sarah Mitchell,
2 S-A-R-A-H M-I-T-C-H-E-L-L. I'm originally from Egegik. I
3 live here in King Salmon now. My family are commercial
4 fishermen in Egegik, and we go back every year. We
5 have -- we still live on the land that we have lived off
6 for almost 100 years now, and we live a subsistence
7 lifestyle. I am against Pebble Mine, not only for our
8 fish, but for our culture and its ability to continue on
9 through our generation.

10 I am Sugpiat Alutiiq. When the U.S. government came
11 and took our men and children, our culture was devastated.
12 Now there are only 150 Sugstun speakers who are fluent.
13 Our people teach the generations after them by the land
14 and the water. We live by the seasons. Our culture, our
15 elders, our men, women and our children live off this
16 land.

17 Pebble Mine is another Outside entity coming into our
18 land to exploit our resources. And as soon as these
19 resources are gone or a catastrophic event happens, these
20 companies will leave, too, and our people will be here to
21 clean up the mess, which unfortunately we find all too
22 familiar. Pebble Mine will not happen. Our culture, our
23 way of life is too strong and too important.

24 I am not here to beg or plead, and I am not helpless.
25 I am not a victim. I know my voice is powerful. And the

1 generations after us will see these companies come in and
2 try to use our land, but with our example we set now, they
3 will know what to do.

4 MS. BARBARA HILL: I guess I should maybe
5 qualify what I want to say first so that people understand
6 that I'm just not talking to sound good, but that I have a
7 159-acre homesite across from where the alternative ferry
8 site is over on the Kokhanok side, and I also have a
9 homesite of five acres in another little five-acre plot
10 over at Snug Harbor. My children have all been raised in
11 this area, and my husband was raised in the area, so
12 that's where the foundation of what I've written comes
13 from.

14 So to whom it may concern. The forces of nature have
15 always ruled in this diverse area. Unpredictable weather
16 patterns dominated by the Siberian and Pineapple Express
17 of whose winds are intensified by the geography challenge
18 anything above ground. Added to an erratic climate,
19 earthquakes and volcanoes therein spells the possibility
20 for natural disasters.

21 Looking at the history of man, have we created
22 anything that is foolproof? Living in a world that is
23 suffering from all types of environmental pollutants, do
24 we need another mine? Considering the natural renewable
25 resources abundantly available here, it would seem wise

1 not to stir up this ecosystem by approving measures that
2 would lead to the licensing of a mine.

3 Sincerely, Barbara J. Hill.

4 (Proceedings adjourned at 6:57 p.m.)

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

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

REPORTER'S CERTIFICATE

I, MARY A. VAVRIK, RMR, Notary Public in and for the State of Alaska do hereby certify:

That the foregoing proceedings were taken before me at the time and place herein set forth; that the proceedings were reported stenographically by me and later transcribed under my direction by computer transcription; that the foregoing is a true record of the proceedings taken at that time; and that I am not a party to nor have I any interest in the outcome of the action herein contained.

IN WITNESS WHEREOF, I have hereunto subscribed my hand and affixed my seal this _____ day of April 2019.

MARY A. VAVRIK,
Registered Merit Reporter
Notary Public for Alaska

My Commission Expires: November 5, 2020

	actions (1) 74:15	21:15	17:7;51:12;71:13	appears (1) 58:22
§	active (1) 57:18	afford (5) 27:23;30:10;76:19; 79:6,18	along (9) 13:11,12;17:15; 18:4,16;20:20,21; 46:18;75:19	appendices (2) 50:14;53:5
\$1,000 (1) 37:16	activities (3) 11:1;74:5,6	afternoon (4) 3:7;9:22;50:3; 57:13	alternative (15) 5:16;12:11,13; 18:24;26:12,13,16; 30:19;38:2;46:24; 48:25;50:7;53:20; 69:2;85:7	application (9) 3:25;11:3,4,5; 12:21,25;50:6;51:6; 53:21
[activity (1) 81:18	aftershock (1) 74:12	alternatives (4) 5:14,17;7:8;12:10	applications (3) 10:21;12:17;39:17
[sic] (1) 17:7	acts (2) 11:3,11	afterwards (1) 7:14	although (1) 10:14	apply (1) 18:19
A	actual (1) 24:17	again (8) 3:20;8:10,17;23:18; 27:25;53:20;64:18; 77:19	Alutiq (2) 52:7;84:10	appreciate (6) 4:17,18;9:25;56:20; 77:13;81:1
AA (1) 28:25	actually (9) 4:11;27:2;37:12; 67:4,10;68:10;79:5; 80:10,15	against (7) 12:15;14:1;28:18; 29:12;83:24,24;84:7	always (3) 38:6;56:24;85:15	appreciated (1) 75:15
ability (1) 84:8	add (4) 27:5;49:10,16; 74:21	age (1) 35:4	Amakdedori (2) 20:4,20	approach (3) 50:19;59:15;77:25
able (9) 4:17,18;35:2;45:20; 50:13;52:11;77:19, 20;79:6	Added (1) 85:18	agencies (1) 11:20	amazing (3) 46:22;47:6;62:22	appropriate (1) 53:21
above (1) 85:18	addition (3) 5:15,15;6:4	ago (9) 10:14;25:8;28:14; 38:19;51:14;54:20; 56:11;66:22;69:18	America (4) 21:8;40:3;60:3; 73:14	approve (2) 11:17;18:21
absolutely (1) 18:22	additional (1) 7:7	agree (3) 35:20;60:23;64:16	amount (4) 36:6;44:21,22; 71:10	approved (1) 48:9
absurd (1) 53:19	Additionally (1) 33:13	ahead (1) 3:3	analogy (1) 49:10	approving (1) 86:1
abundantly (1) 85:25	address (3) 6:6;24:21;46:20	aid (1) 13:3	analysis (14) 7:6;11:23;12:12; 29:16;39:13,19;46:2, 2,12;60:17,24;61:5, 23,24	approximately (2) 38:5;73:22
abused (1) 56:18	addressed (7) 11:14;36:2;59:24; 60:2;76:3,4,6	ain't (1) 81:6	analyze (2) 61:6;62:17	April (1) 18:10
acceptable (1) 50:5	addressing (1) 59:20	airborne (1) 66:5	analyzed (4) 5:14,21;62:13,20	aquatic (1) 10:25
access (1) 18:18	adequate (3) 43:12;50:8;51:19	airplane (2) 27:6,14	ancestors (2) 32:14;38:5	area (27) 14:24;15:7;17:7; 18:23;19:7;20:1,5; 25:22;26:9;31:20; 35:7;38:17;42:8; 46:23;62:14;65:13; 66:23;67:3;69:17; 72:25;75:24;79:2,17; 81:21;85:11,11,15
accessible (1) 17:7	adequately (4) 75:17;81:24,24; 82:9	airplanes (1) 27:10	Anchorage (6) 67:4;73:17;74:11, 12;76:7,10	areas (1) 35:7
accomplishments (1) 58:2	adjourned (1) 86:4	Alaska (24) 4:3,8;10:11,13,16; 16:13,24;21:14;33:2, 12,22;34:19;38:10, 11;39:3;43:10;48:8; 50:11;52:13;60:15; 71:23;75:2;82:6; 83:12	anchored (1) 22:12	Army (8) 10:10,12;34:18; 50:23;52:4,20,25; 53:12
according (2) 33:23;50:14	administration (3) 39:1,1,2	Alaskans (1) 52:2	anger (1) 54:13	around (11) 7:17;8:4;17:1,12, 25,25;19:2;71:4; 73:17;77:6;79:9
accurate (1) 9:19	admit (1) 50:12	alive (2) 44:19;45:5	animals (3) 33:13,15;66:4	arrival (1) 10:13
accurately (1) 8:2	adults (1) 59:3	allotment (1) 30:23	Ann (3) 62:6,6;63:14	arrived (1) 54:3
achieve (1) 11:23	advance (2) 13:3;56:9	allow (4) 9:12;34:4;59:12; 70:20	answered (1) 27:21	ash (2) 19:22,24
acid (1) 57:8	advertising (2) 26:17;56:18	allowing (6) 3:16;24:13,22;25:1; 32:6,12	anymore (1) 40:9	aspect (1) 71:12
acres (3) 30:1,3;85:9	advise (1) 19:6	almost (2) 55:22;84:6	APA (2) 38:10,13	aspects (1) 39:18
across (12) 18:4,16,22;19:4,15; 22:1;23:19;36:17,18; 37:1;40:3;85:7	advocate (1) 12:15	alone (3)	appear (1) 6:23	assessment (3)
Act (7) 5:5;10:22,23;21:9; 39:18;50:6;66:11	AECOM (3) 3:8;4:10;39:16			
action (13) 5:15,16;12:11; 26:12,13,16;38:1; 48:25;50:6;53:20; 69:2;72:17;78:2	affect (6) 19:22;20:2;31:1; 33:13;45:14;74:16			
	affected (3) 12:9;33:16;68:21			
	affecting (1)			

<p>29:19;39:15;46:22 assist (1) 12:24 associated (2) 7:1;83:15 Association (1) 38:10 assumptions (2) 42:4;61:5 assurances (1) 39:15 athletics (1) 59:13 attendees (1) 9:18 audience (1) 35:8 Augustine (2) 19:9,23 auntie (1) 32:23 authorities (2) 11:9,15 authority (5) 11:16;54:18;56:13; 57:1,3 authorization (2) 10:21;11:3 availability (1) 10:4 available (2) 78:3;85:25 avoid (1) 55:1 away (7) 19:24;25:8;41:22; 59:1;74:8,15;83:7</p>	<p>bandwagon (1) 28:18 bank (2) 31:7,8 bankruptcy (2) 46:15;68:3 BARBARA (2) 85:4;86:3 barely (1) 26:24 barrier (2) 82:14,17 barriers (1) 82:14 based (2) 8:19;78:23 basis (1) 60:22 Bay (47) 15:2;16:5;20:1; 22:1,9;23:1;24:4,24; 25:7,12,15;29:12; 30:8;31:14;32:1; 36:17;37:11;38:12, 13,17;39:23;40:12; 42:19;43:25;44:6,18; 45:6;49:6,8;50:23; 52:1,13;57:18;58:8, 15,20,25;62:21,25; 69:3,6;71:22;73:25; 75:7,8;77:21;81:22 BBNC (1) 37:11 Bear (4) 20:3,11,12;57:15 bears (5) 20:2,7,13,15,19 became (2) 17:3;57:24 become (1) 59:22 bed (1) 36:21 beds (2) 25:21;30:9 beg (1) 84:24 began (1) 57:23 Begich (1) 54:22 beginning (3) 17:24;31:24;43:11 begins (1) 23:10 begun (1) 33:9 behalf (1) 60:7 behind (3) 22:12;44:24;52:9 Belize (1) 57:8</p>	<p>below (1) 58:20 benefit (1) 83:22 benefits (1) 83:16 Bering (1) 15:2 Berkeley (1) 75:4 berm (1) 15:13 berries (2) 24:7;83:5 best (4) 41:7;44:12;66:23; 72:17 better (7) 23:14,15;27:4,15; 59:1,12;68:8 big (7) 21:4,7;22:15,18; 23:13;33:21;41:16 bigger (1) 23:21 Bill (2) 4:10;79:19 billion (1) 55:21 biologist (5) 16:25;17:4;20:15; 36:9;73:19 birds (1) 66:4 birth (1) 58:15 birthed (1) 57:24 bit (4) 3:12;19:10;36:3; 41:21 Blade (1) 22:13 blaming (1) 21:9 blessed (1) 10:17 Bloedel (29) 4:3;9:16,21,22; 10:9;14:12;16:21; 24:10;25:3;32:20; 34:23;40:16;42:16; 43:21;50:1;53:23; 57:11;60:10;63:4; 64:9,16;69:9;70:2; 71:16;73:6;74:19; 76:22;77:8;80:25 blowing (1) 16:11 blown (1) 22:11 board (2) 25:14;29:10</p>	<p>boards (1) 79:16 boat (3) 22:2;25:11;37:23 boats (3) 18:17;23:6;73:25 bodies (1) 22:20 body (2) 22:15;28:2 bogeyman (1) 28:7 bonding (1) 39:15 boom (1) 46:3 Born (4) 37:11,12;75:2;79:2 BOSKOFFSKY (3) 13:8,18,22 bosses (1) 66:17 both (9) 5:22;10:16;36:6,12, 13;52:20;68:13;80:2, 7 bottom (1) 22:19 bought (2) 37:23;38:11 branch (1) 4:5 Brazil (3) 21:8,10;51:14 breach (1) 39:8 break (5) 15:13;64:15,18,24; 65:3 breaks (2) 9:11;68:1 bridge (2) 18:4;58:20 bridges (2) 18:16,19 brief (1) 7:23 bring (4) 20:14;23:5;58:24; 66:16 brings (2) 60:8;68:19 Bristol (40) 15:2;16:5;22:1; 24:4,24;25:7,12,15; 29:12;30:8;31:13; 32:1;37:11;38:12,13, 17;39:23;40:12; 42:19;43:25;44:6,18; 45:6;49:6,8;50:23; 52:1,13;57:18;58:8, 14,20,25;62:21;69:3, 6;75:7,8;77:21;81:22</p>	<p>British (2) 15:16;40:6 broken (1) 83:19 brother-in-law (1) 41:6 brown (2) 20:2,12 Bruce (1) 28:15 Bruin (3) 20:1;22:9;36:17 Bryant (1) 25:11 build (7) 23:12;25:20;26:12, 19;30:12;43:6;50:25 building (1) 36:20 built (3) 33:24;34:12;49:5 bunch (3) 17:23;20:8,11 burn (1) 57:6 business (7) 56:7;59:14,18; 63:16,16;76:9;83:12 bust (1) 46:3 Butte (1) 75:2</p> <hr/> <p style="text-align: center;">C</p> <hr/> <p>cabin (2) 31:6,9 cabins (1) 31:11 California (1) 40:5 call (7) 7:19;10:17;13:4; 23:3;29:11;32:5; 35:23 called (2) 17:20;29:14 calm (1) 22:10 Camai (1) 60:14 came (9) 28:15;32:8,23; 35:13;36:23;60:15; 66:9,17;84:10 camel's (1) 26:20 camera (1) 55:1 camp (1) 20:16 Campbell (1) 4:7</p>
--	--	--	--	---

<p>can (56) 3:3;6:4;7,8,10,12, 14,15,17,25;7:2;8:9; 9:2;13:1,13;14:15,19; 15:8,10;18:3;19:5,15, 18;22:10;26:24; 27:11,14,22;34:21; 38:20;39:6;42:6;43:5; 44:18,23,24;46:1,10; 47:11;54:16;55:12; 56:22;57:2,10;59:19; 65:24;68:7;69:18; 70:20,21;74:1;76:14; 77:25;78:7,22;79:18</p> <p>Canadian (1) 55:7</p> <p>cancer (1) 40:11</p> <p>canneries (1) 38:11</p> <p>capital (1) 25:16</p> <p>cards (1) 6:6</p> <p>care (7) 9:3;16:13;20:18; 41:3;44:22;57:23; 61:17</p> <p>careful (2) 59:15;60:4</p> <p>Cargill (1) 21:6</p> <p>caribou (5) 24:7;31:21;33:8,11; 83:6</p> <p>carries (1) 57:25</p> <p>CARUSO (1) 40:17</p> <p>C-A-R-U-S-O (1) 40:18</p> <p>case (2) 67:6;68:10</p> <p>catastrophe (1) 68:1</p> <p>catastrophic (7) 46:13;52:3;58:13; 59:24;60:2;82:11; 84:19</p> <p>catch (1) 48:2</p> <p>category (2) 22:20;67:19</p> <p>CATLIN (2) 60:13,14</p> <p>caught (3) 44:4,11;56:21</p> <p>caution (1) 79:23</p> <p>celebrated (1) 59:10</p> <p>Cell (3) 8:25,25;47:10</p>	<p>cells (1) 17:24</p> <p>Center (1) 60:15</p> <p>centuries (1) 14:4</p> <p>certain (2) 68:7,17</p> <p>certainly (2) 60:2;67:17</p> <p>certainty (1) 46:13</p> <p>cetera (1) 24:7</p> <p>challenge (1) 85:17</p> <p>chance (4) 8:16;64:14;73:8,9</p> <p>change (8) 3:15;10:3;14:19; 33:9;46:15;58:24; 63:21;77:19</p> <p>changed (3) 54:21;69:20;73:23</p> <p>changes (3) 5:11;7:3;9:9</p> <p>CHANTELLE (4) 70:10,23;71:2,3</p> <p>C-H-A-N-T-E-L-L-E (1) 71:3</p> <p>charged (2) 15:18,19</p> <p>chase (1) 35:8</p> <p>cheaper (1) 27:17</p> <p>check (4) 48:14;54:8,8,16</p> <p>chef (1) 48:5</p> <p>Chernikoff (1) 32:23</p> <p>chief (1) 35:23</p> <p>child (1) 69:14</p> <p>children (4) 34:5;84:11,15; 85:10</p> <p>Chinese (1) 55:8</p> <p>choice (1) 45:5</p> <p>chop (1) 23:4</p> <p>CHRISTENSEN (2) 43:23,24</p> <p>C-H-R-I-S-T-E-N-S-E-N (1) 43:24</p> <p>Christmas (1) 59:8</p> <p>CHRISTOPHER (1) 83:10</p>	<p>chronology (2) 21:20,21</p> <p>chunks (1) 23:21</p> <p>citizen (1) 57:21</p> <p>claims (1) 33:19</p> <p>Clark (3) 52:14;79:2,3</p> <p>class (1) 64:3</p> <p>classes (2) 28:25;29:5</p> <p>clay (2) 82:13,17</p> <p>Clean (7) 10:22;25:10,10; 34:13;39:18;50:6; 84:21</p> <p>cleanup (1) 15:4</p> <p>clear (5) 18:14;41:9;54:24; 58:15;66:3</p> <p>clearly (1) 54:23</p> <p>climate (1) 85:18</p> <p>clock (1) 77:11</p> <p>close (2) 46:13;78:12</p> <p>closed (1) 21:10</p> <p>closer (1) 76:10</p> <p>closes (1) 46:3</p> <p>closing (2) 77:3,5</p> <p>closure (1) 11:18</p> <p>coach (1) 37:14</p> <p>Coast (2) 48:5,8</p> <p>COCKRELL (2) 47:16,17</p> <p>COL (25) 9:22;14:12;16:21; 24:10;25:3;32:20; 34:23;40:16;42:16; 43:21;50:1;53:23; 57:11;60:10;63:4; 64:9,16;69:9;70:2; 71:16;73:6;74:19; 76:22;77:8;80:25</p> <p>cold (1) 41:9</p> <p>collaborative (1) 77:24</p> <p>collapse (1)</p>	<p>82:18</p> <p>collect (1) 19:24</p> <p>collected (2) 20:10,12</p> <p>college (4) 17:2;28:24,24; 29:14</p> <p>Colonel (4) 4:2;9:15,21;10:10</p> <p>Columbia (2) 15:16;40:6</p> <p>combination (1) 5:18</p> <p>combined (1) 38:17</p> <p>comfortable (2) 7:12;70:14</p> <p>Cominco (1) 21:5</p> <p>coming (14) 3:20;31:4,13;36:22; 37:1;40:18;56:10,10; 67:9;76:17,25;77:12; 79:6;84:17</p> <p>Commander (2) 4:3;10:11</p> <p>comment (16) 6:17;24:14;46:17; 48:25;53:2,2,7,8,10, 14,18;72:3;75:14; 81:10;82:1,3</p> <p>commented (1) 27:19</p> <p>commenting (1) 72:21</p> <p>comments (29) 4:19,21,25;5:3,11, 23;6:2,7,8,11,16,19, 21,25;7:2,4,11,12,13; 8:18;9:9;12:8;13:2, 22;49:2,64;22;72:11; 76:18;80:19</p> <p>commercial (18) 13:23;31:22;33:21; 40:21;41:16;42:20; 52:1;57:16;68:14; 69:13;71:6;73:20; 76:1;82:7,23,24; 83:13;84:3</p> <p>commercially (1) 44:5</p> <p>committed (2) 77:23;78:6</p> <p>common (1) 21:18</p> <p>communication (1) 77:24</p> <p>communities (9) 33:3;34:10,19; 43:18;51:25;52:24; 65:14;78:21;79:24</p> <p>community (20)</p>	<p>9:23,24;12:4;33:4; 34:21;40:18;41:16; 42:2;44:3;52:19;59:2, 5;60:15;63:21,22; 66:23;78:1,22;80:1, 15</p> <p>companies (5) 21:4,4;62:11;84:20; 85:1</p> <p>company (3) 34:13;55:7;68:3</p> <p>compared (2) 28:5;61:15</p> <p>competition (2) 56:7;59:14</p> <p>complete (3) 15:7;21:1;67:12</p> <p>completed (2) 11:25;72:7</p> <p>completely (6) 60:16;62:13,20,25; 75:7,20</p> <p>completing (1) 4:1</p> <p>complex (1) 46:22</p> <p>complexity (1) 53:13</p> <p>components (3) 49:9,14;50:16</p> <p>comprehensive (1) 50:20</p> <p>compressed (1) 66:12</p> <p>computers (1) 6:10</p> <p>concentrate (1) 12:2</p> <p>concern (4) 33:18;36:13;64:2; 85:14</p> <p>concerned (5) 39:8;57:21;62:8,15; 63:17</p> <p>concerning (1) 34:17</p> <p>concerns (12) 9:6,7;11:12;26:25; 27:2;33:4,7;45:22; 46:20,20;64:4;76:16</p> <p>conclusion (1) 39:25</p> <p>conclusions (1) 7:5</p> <p>conditions (2) 7:9;46:8</p> <p>confidence (1) 64:6</p> <p>confluence (1) 57:17</p> <p>confused (2) 34:7;52:4</p> <p>consequences (1)</p>
---	---	---	---	--

60:23 consider (9) 9:9;11:22;24:7; 33:25;34:18;58:7; 63:1;68:6;73:1 consideration (6) 12:8;24:9;39:22; 48:11;53:13;59:16 considering (4) 21:16;74:17;77:7; 85:24 consortium (1) 52:17 CONSTANTINE (2) 42:18,19 constantly (1) 52:17 construction (1) 37:20 contain (2) 15:6,8 contains (2) 12:9;29:17 contaminated (1) 15:7 contaminates (1) 16:3 contamination (1) 16:4 continue (7) 11:21;34:4;45:4; 61:17;62:24;78:3; 84:8 contractor (1) 3:9 contrary (1) 39:21 controlling (1) 55:8 converted (1) 54:4 convince (1) 58:4 Cook (5) 17:15;65:13,16; 68:18,19 cooking (1) 26:6 copper (3) 39:7;72:13;75:5 Cordova (1) 55:16 corner (1) 23:12 Corporation (1) 25:15 corporations (1) 55:5 Corps (24) 3:9,23;4:4,5,7,23; 5:11;8:23;9:8;10:12, 20;11:10,16;12:15; 34:18;35:12;39:19,	22;50:23;52:5,21; 53:1,12;64:22 Corrections (1) 55:24 corridor (1) 20:22 cost (1) 34:12 costs (1) 50:20 Council (2) 3:16;10:7 councils (1) 79:16 counting (1) 36:9 country (1) 80:1 couple (9) 4:22;17:3;21:5,6; 25:8;29:8;35:14; 51:13;64:11 course (1) 21:7 court (9) 4:15,22;6:12,14; 9:13,17;70:13,25; 78:15 courteous (1) 8:22 cousin (1) 25:6 cover (2) 66:20;68:2 covered (1) 66:8 crack (4) 36:21,22,24;37:1 cracks (1) 36:20 Craig (1) 4:10 create (2) 9:18;69:6 created (2) 66:23;85:21 creating (2) 58:22;72:24 credible (1) 24:21 Creek (2) 22:25;57:17 creeks (1) 46:9 critical (1) 51:20 critters (1) 31:21 cross (1) 17:13 crossings (1) 5:19 crosswind (1)	27:7 crowd (1) 37:24 Crystal (2) 41:9;58:15 culture (5) 33:15;84:8,11,14, 22 cumulative (1) 62:9 current (2) 26:23;60:8 currently (1) 24:4 custodian (1) 41:2 cutting (1) 41:25 Cyrus (2) 82:5,5 C-Y-R-U-S (1) 82:6	26:23;27:3;30:18; 35:22;53:10,18 DC (1) 60:7 dead (3) 18:1;55:17,22 deadline (1) 6:17 dealing (1) 15:3 death (1) 16:6 debate (2) 57:22,23 decade (1) 43:25 December (2) 11:4;18:14 decide (1) 65:22 decided (1) 66:22 decimated (1) 40:5 decision (6) 11:10;12:24;13:1; 60:21,25;61:9 decisionmakers (1) 24:22 decision-making (1) 13:4 decisions (7) 11:19;12:17;45:14; 60:20,22;61:20;62:2 deemed (1) 53:10 defined (1) 45:11 degradation (1) 45:19 degree (2) 28:25;29:1 DEIS (9) 11:7;43:1,4,12; 50:7,14;52:6;53:9; 60:8 Dena'ina (1) 52:7 Dennis (2) 68:25,25 Department (4) 16:25;41:23,24; 55:24 depend (4) 21:15;30:21;40:23; 71:12 depending (2) 19:21;70:19 depends (1) 13:20 deposit (1) 62:10 depth (2)	63:14;73:24 Deputy (3) 4:3;10:11,11 described (1) 11:16 description (3) 12:9;39:14;69:17 descriptions (1) 50:19 deserve (5) 16:17,19;43:10; 52:2;60:4 designated (1) 20:18 desirable (1) 19:3 destroy (2) 26:15;69:4 destroying (1) 51:15 destruction (1) 44:24 detail (1) 43:1 detailed (4) 8:18;39:14;43:12; 50:19 details (1) 43:10 determine (1) 53:14 devastate (2) 42:7,8 devastated (1) 84:11 devastating (1) 44:22 develop (1) 47:1 development (11) 7:8;12:6;24:8;32:4, 6:33;10:34;2;46:1,17; 50:10;74:7 dewater (3) 25:22;30:14,14 difference (1) 56:1 different (11) 5:17;16:1,1,26:6; 29:21;49:14;60:16; 68:11;75:7;79:7; 80:14 difficult (2) 45:19;62:19 dig (3) 30:10;82:11,13 digging (3) 28:3,9;49:20 dignity (1) 16:17 diligent (1) 11:4 Dillingham (2)
		D		
		dad (3) 13:24;25:8;37:21 dad's (2) 25:6,11 dam (22) 11:17;20:25;21:12, 17;24:20;27:23;39:9, 13;43:15;44:13; 45:23;50:18;51:13, 22;62:18;66:24; 67:12;68:1;72:24,25; 76:12;82:11 damage (1) 17:10 dams (3) 67:4;72:24;81:19 danger (1) 31:10 dangerous (1) 27:9 Daniel (2) 3:6;35:1 data (2) 39:12;68:12 date (2) 15:17;42:5 daughter (1) 57:24 Dave (1) 4:4 DAVID (5) 13:13,20;69:12,12; 70:6 day (5) 4:20;21:8;53:6,9; 81:7 days (9) 16:16,18;22:12;	decimated (1) 40:5 decision (6) 11:10;12:24;13:1; 60:21,25;61:9 decisionmakers (1) 24:22 decision-making (1) 13:4 decisions (7) 11:19;12:17;45:14; 60:20,22;61:20;62:2 deemed (1) 53:10 defined (1) 45:11 degradation (1) 45:19 degree (2) 28:25;29:1 DEIS (9) 11:7;43:1,4,12; 50:7,14;52:6;53:9; 60:8 Dena'ina (1) 52:7 Dennis (2) 68:25,25 Department (4) 16:25;41:23,24; 55:24 depend (4) 21:15;30:21;40:23; 71:12 depending (2) 19:21;70:19 depends (1) 13:20 deposit (1) 62:10 depth (2)	

28:15;37:12 diluted (1) 47:2 dinner (1) 59:6 dire (1) 39:4 direction (1) 19:22 directions (2) 16:1;36:13 directors (1) 25:14 disagree (1) 7:5 disappointment (1) 63:12 disaster (5) 15:13,16,19;71:9; 83:15 disasters (1) 85:20 discharge (2) 10:23;24:19 disheartened (1) 54:12 disrespect (1) 8:15 disrupting (1) 73:2 disservice (1) 52:12 distance (1) 58:22 District (4) 4:4;10:11,11;63:2 districts (1) 38:17 disturb (1) 30:1 diverse (1) 85:15 docks (2) 19:6;23:16 document (4) 9:10;24:15;72:4,22 documentary (1) 38:10 documents (4) 5:22;26:22;52:6,11 dollars (2) 38:12;41:19 Dolly's (1) 10:7 dominated (1) 85:16 done (2) 48:13;67:23 Donlin (2) 52:8,9 door (3) 17:23;51:7;83:4 down (23)	15:3;18:4;19:2; 21:7,11;23:1,6;25:19; 27:9;29:8;31:1;32:9; 33:12;36:4;41:8,12; 44:8;47:13,17;48:17; 81:21;82:16,19 download (1) 5:22 downplayed (1) 58:11 downright (1) 48:12 downriver (1) 31:4 downs (1) 67:16 downstream (2) 24:16;31:6 downturn (1) 37:19 draft (32) 4:1,19;6:3;11:6,7, 15,22,24;12:6,8,9,13, 22,24;13:15,17; 24:15;27:19;28:1; 29:17;30:1,18;33:17; 34:8,14;39:11;42:22; 45:21;51:16;53:4; 81:11;82:2 drag (1) 22:2 drain (1) 39:13 drainage (1) 16:5 drainages (1) 17:2 drastic (2) 44:14;63:20 drift (1) 37:23 drifting (1) 23:20 drink (3) 41:9,12,14 DRISCOLL (2) 69:12,13 D-R-I-S-C-O-L-L (1) 69:13 driving (1) 18:4 ducks (1) 26:2 due (1) 72:21 dump (1) 66:3 Dunleavy (1) 54:23 during (5) 11:13;17:21;18:6; 29:23;57:19 dust (1)	58:23 E E3 (1) 4:13 earlier (2) 18:9;72:8 early (6) 15:22;18:10;23:2; 58:21;64:19;76:8 earth (3) 32:5;44:13;66:14 earthen (2) 10:24;72:25 earthquake (10) 43:14;60:1;69:16, 19;73:13,14,23,23; 74:10;76:7 Earthquakes (4) 15:11,11;62:19; 85:19 easily (1) 22:11 East (5) 18:24;23:10;36:17; 48:5,8 eastern (1) 28:4 easy (2) 54:14,15 eat (6) 40:8;48:1,2,3,15; 76:2 eating (2) 48:18,19 echo (2) 10:2;81:25 economic (6) 43:8;45:1;50:17; 51:9;61:5,24 economics (1) 61:6 economy (3) 46:3,4;83:20 ecosystem (1) 86:1 ecosystems (1) 53:17 EDEL (2) 63:7,8 E-D-E-L (1) 63:8 edge (1) 31:8 Edmund (1) 22:19 educated (4) 28:19,23;29:3,7 effect (3) 17:17;71:8;81:19 effective (2) 7:11;64:22	effects (7) 24:16;46:11;60:25; 62:9;71:13;74:8; 81:22 Egegik (4) 32:25;73:19;84:2,4 eggs (7) 17:19,24;18:1,2,5,7, 9 eight (1) 29:2 eight-foot (1) 22:10 EIS (39) 3:12;4:1,19;5:3,8, 10,12,14,21,23;6:3,6; 7:3,6,9;10:11,7,15,23, 24;12:6,9,9,13,24; 13:15;27:19;28:1; 29:17;30:2,18;34:8; 39:11;45:21;63:12; 64:20;65:11;75:11; 81:11;82:9 either (1) 50:22 elders (3) 33:7;73:21;84:15 electronically (1) 6:22 element (1) 51:20 eloquently (1) 73:4 else (13) 8:7;25:18,24;61:12; 64:13,25;70:3,15; 71:17;73:7;74:20; 76:23;78:14 elsewhere (1) 71:14 Elwha (1) 67:12 employed (1) 47:3 enabled (1) 12:1 enchanted (1) 10:16 end (6) 28:4,5,10;43:11; 46:15;54:11 endeavor (1) 22:21 ends (1) 80:2 energy (1) 47:5 engage (1) 77:25 engine (2) 40:3,11 Engineer (2) 10:12;38:20	engineering (1) 39:13 Engineers (8) 3:10,24;4:24;8:23; 9:8;10:12;35:13; 64:23 engines (1) 54:5 enjoy (1) 59:7 enjoying (1) 32:17 enormous (1) 24:18 enough (9) 23:8;29:20;38:9; 50:8;57:7,10;58:7; 61:10;68:2 ensure (1) 10:5 entire (5) 24:6,18;51:15; 81:11,20 entities (1) 59:8 entity (1) 84:17 environment (2) 12:10;81:15 Environmental (24) 3:10,13;5:5,6;11:6; 12:22;15:16;24:21; 33:17;34:14;42:23; 44:25;51:17;53:4,17; 60:16;62:24;67:8; 71:13;72:1,18;76:5; 82:2;85:23 environmentalists (1) 28:17 EPA (3) 27:20;29:19;33:23 EPA's (1) 46:21 epicenter (1) 73:22 equal (1) 58:9 equated (1) 41:18 equipment (3) 18:3,16;58:22 equivalent (1) 15:5 erratic (1) 85:18 error (1) 15:12 eruption (1) 69:19 eruptions (5) 19:11,14,19,21; 69:20 especially (2)
--	---	---	---	---

<p>66:4;83:1 essence (1) 42:12 essential (1) 52:6 established (2) 44:20;45:2 estimate (2) 22:3;23:5 et (1) 24:7 Europe (2) 40:3,4 evaluate (1) 50:8 evaluating (1) 3:24 evaluation (2) 12:19;60:5 even (23) 14:5;17:22;26:15; 28:8;30:14;40:6;43:7; 48:18;52:23;53:1; 56:25;57:3;58:12,19; 59:19;60:22;67:16; 71:5,8;72:5;74:4,16; 76:13 event (1) 84:19 events (1) 15:11 EVERETT (2) 45:9,9 E-V-E-R-E-T-T (1) 45:10 everybody (6) 3:20;8:6;25:24; 26:5;77:9,10 everyone (7) 8:11,16;32:19; 73:16;77:17,18,19 everywhere (1) 66:6 evidence (1) 34:14 exactly (1) 72:23 example (4) 41:23;67:12;81:17; 85:2 executive (2) 72:6;75:11 exist (2) 61:12;68:10 exists (1) 53:1 exotic (1) 10:16 expanded (1) 45:25 expansion (1) 59:23 expect (4)</p>	<p>7:16;19:18;49:19; 74:10 expected (2) 45:21;60:1 expecting (1) 70:12 experience (3) 15:6;19:24;82:22 experiment (1) 15:23 expert (1) 75:10 explain (2) 43:1,4 explaining (1) 42:24 explicit (1) 61:5 exploit (1) 84:18 exploration (1) 80:5 explored (1) 81:24 explosion (1) 58:21 explosive (2) 19:11,14 Express (1) 85:16 expressed (1) 66:18 extend (4) 16:17;27:3;75:15, 16 extending (2) 16:16;48:25 extension (1) 51:8 extensions (1) 26:20 extremely (1) 46:10 Exxon (3) 55:4,18,20 eye (2) 8:12;47:11</p>	<p>fail (1) 76:12 failed (2) 21:8;39:12 failure (17) 21:12,12;27:23; 30:25;34:9,15;43:2; 45:23;50:18;51:22; 52:3;58:13;59:25; 60:2;62:18,19;82:11 failures (6) 20:25;21:18,18; 24:20;51:13;62:12 fair (3) 12:16;29:15;75:14 fairness (1) 35:16 fall (4) 11:19;19:22,24; 44:24 falls (1) 67:19 familiar (4) 5:6;10:16;35:24; 84:22 families (5) 25:12;44:3,6;59:11; 80:5 family (14) 10:15;15:21,22; 22:17;24:6;29:2; 30:23;31:23;43:16; 45:12;57:25;76:1; 80:3;84:3 far (15) 7:17;8:20;13:11,12, 19;19:2,24;27:22; 30:25;61:23;74:15; 75:12,13;78:9;80:4 farmed (3) 38:21;48:6,16 farther (2) 19:10;74:8 father (2) 32:16;54:3 favor (3) 28:19;39:3;83:11 favorite (1) 54:10 favours (1) 46:17 FDA (1) 48:9 feasibility (3) 43:8;50:17;51:9 February (1) 12:14 feed (1) 15:21 feedback (5) 12:5,22,23;13:21; 75:18 feeding (3)</p>	<p>15:21;22:4;61:17 feel (5) 10:17;32:13;52:19; 54:13;81:11 feeling (3) 54:25;64:5;80:14 feet (2) 31:8;36:23 fellows (1) 32:14 felt (3) 72:9;76:8,9 FEMALE (1) 14:17 females (1) 56:17 ferry (4) 5:19;18:24;55:3; 85:7 fertilization (1) 17:22 fertilized (1) 17:19 few (10) 13:9;16:9;17:1,22; 34:20;35:11;37:22; 45:18;72:2;83:23 fewer (1) 27:16 fields (1) 23:21 figure (3) 30:13;66:11;67:1 filed (1) 52:23 files (1) 68:3 filling (1) 28:10 film (1) 55:15 filming (1) 8:20 final (1) 59:21 finally (1) 9:4 financial (1) 39:14 financially (1) 59:22 find (7) 5:2,25;10:16;31:11; 67:24;77:20;84:21 fine (1) 37:2 finish (2) 6:13;53:6 finished (2) 8:7;34:13 finite (1) 38:2 fire (3)</p>	<p>28:16;41:23;69:16 First (20) 3:4,14,22;5:4; 11:25;12:19;13:5,10, 10;18:12;24:1;25:6; 26:1,3;28:15;72:18; 75:12;77:12;78:19; 85:5 fiscal (1) 21:10 Fish (33) 16:25;17:11,17,18; 20:10,16;23:1,7;25:9, 10;26:3;27:24;30:16, 20;32:10;36:9;41:17, 19,21;54:4;58:15,16, 20;65:19;67:2,17,21; 78:23,23;80:12;81:6; 82:10;84:8 fished (5) 15:1;37:22;49:4; 82:7,8 fisheries (10) 16:25;17:4,10; 21:15,24;40:14; 49:11;57:19;73:19,20 fisherman (7) 13:23;42:20;48:13; 65:17;69:13;81:4; 83:13 fishermen (5) 16:8;32:11;42:21; 52:1;84:4 fishery (8) 33:23;37:19;38:13; 49:12;58:10;62:22; 63:23;68:15 fighting (25) 22:2;23:6;31:22; 33:21,25;34:3;37:15, 18;38:16;40:21; 41:16;44:2;47:20,22; 52:1;54:2;57:25;59:7; 66:21;68:14;71:4,6; 72:16;82:23;83:4 Fitzgerald (1) 22:19 Five (5) 29:24;47:24;51:12; 65:19;85:9 five-acre (1) 85:9 five-star (1) 58:2 fix (2) 56:17;83:19 flat (1) 22:10 flats (1) 23:7 flaws (1) 24:15 fleet (1)</p>
	F			
<p>face (1) 58:25 facilitated (1) 18:18 facilities (3) 19:22;20:1,4 facility (2) 3:17;10:5 fact (7) 25:10;31:7;40:8; 59:19;65:11,20;67:5 factors (1) 73:1</p>		<p>far (15) 7:17;8:20;13:11,12, 19;19:2,24;27:22; 30:25;61:23;74:15; 75:12,13;78:9;80:4 farmed (3) 38:21;48:6,16 farther (2) 19:10;74:8 father (2) 32:16;54:3 favor (3) 28:19;39:3;83:11 favorite (1) 54:10 favours (1) 46:17 FDA (1) 48:9 feasibility (3) 43:8;50:17;51:9 February (1) 12:14 feed (1) 15:21 feedback (5) 12:5,22,23;13:21; 75:18 feeding (3)</p>	<p>15:21;22:4;61:17 feel (5) 10:17;32:13;52:19; 54:13;81:11 feeling (3) 54:25;64:5;80:14 feet (2) 31:8;36:23 fellows (1) 32:14 felt (3) 72:9;76:8,9 FEMALE (1) 14:17 females (1) 56:17 ferry (4) 5:19;18:24;55:3; 85:7 fertilization (1) 17:22 fertilized (1) 17:19 few (10) 13:9;16:9;17:1,22; 34:20;35:11;37:22; 45:18;72:2;83:23 fewer (1) 27:16 fields (1) 23:21 figure (3) 30:13;66:11;67:1 filed (1) 52:23 files (1) 68:3 filling (1) 28:10 film (1) 55:15 filming (1) 8:20 final (1) 59:21 finally (1) 9:4 financial (1) 39:14 financially (1) 59:22 find (7) 5:2,25;10:16;31:11; 67:24;77:20;84:21 fine (1) 37:2 finish (2) 6:13;53:6 finished (2) 8:7;34:13 finite (1) 38:2 fire (3)</p>	<p>28:16;41:23;69:16 First (20) 3:4,14,22;5:4; 11:25;12:19;13:5,10, 10;18:12;24:1;25:6; 26:1,3;28:15;72:18; 75:12;77:12;78:19; 85:5 fiscal (1) 21:10 Fish (33) 16:25;17:11,17,18; 20:10,16;23:1,7;25:9, 10;26:3;27:24;30:16, 20;32:10;36:9;41:17, 19,21;54:4;58:15,16, 20;65:19;67:2,17,21; 78:23,23;80:12;81:6; 82:10;84:8 fished (5) 15:1;37:22;49:4; 82:7,8 fisheries (10) 16:25;17:4,10; 21:15,24;40:14; 49:11;57:19;73:19,20 fisherman (7) 13:23;42:20;48:13; 65:17;69:13;81:4; 83:13 fishermen (5) 16:8;32:11;42:21; 52:1;84:4 fishery (8) 33:23;37:19;38:13; 49:12;58:10;62:22; 63:23;68:15 fighting (25) 22:2;23:6;31:22; 33:21,25;34:3;37:15, 18;38:16;40:21; 41:16;44:2;47:20,22; 52:1;54:2;57:25;59:7; 66:21;68:14;71:4,6; 72:16;82:23;83:4 Fitzgerald (1) 22:19 Five (5) 29:24;47:24;51:12; 65:19;85:9 five-acre (1) 85:9 five-star (1) 58:2 fix (2) 56:17;83:19 flat (1) 22:10 flats (1) 23:7 flaws (1) 24:15 fleet (1)</p>

<p>52:1 flew (2) 14:23;27:5 flexibility (1) 3:21 flight (1) 58:15 flow (2) 16:4;19:15 flowed (2) 15:25,25 flowing (2) 36:13;46:8 flows (2) 19:14;25:19 fluent (1) 84:12 fly (3) 26:3;76:19,20 flying (1) 35:7 focus (1) 7:4 focusing (1) 24:17 folks (7) 3:2;59:6;64:22; 77:5,12,25;81:25 follow (2) 22:6;61:7 followed (1) 75:9 following (1) 79:8 folly (1) 15:7 food (5) 26:2;33:15;48:17; 75:22,22 foolproof (1) 85:22 foot (1) 51:7 football (1) 23:21 foothills (1) 31:20 footprint (5) 16:8,10;24:18; 58:18;59:20 forces (1) 85:14 forecasts (1) 42:4 Forest (1) 60:17 forever (4) 16:12,13,15;62:17 forget (1) 67:8 forum (1) 79:4 forward (5)</p>	<p>13:2;51:1;60:8; 64:7;83:11 fought (1) 43:25 found (4) 3:17;15:25;19:15; 52:5 foundation (1) 85:12 four (6) 8:4;13:24;19:9; 21:7;36:10;62:10 fraction (2) 30:7;76:15 Frankenfish (3) 48:9,10,15 freezed (1) 54:4 freezer (2) 54:3;75:25 frequent (1) 20:3 Friday (1) 73:13 fridge (1) 75:25 friends (2) 74:25;75:20 front (5) 3:23;4:2,13;6:16; 23:4 frustrated (1) 52:4 frustration (1) 54:13 Fukushima (1) 69:18 full (1) 29:2 full-time (2) 40:25;57:25 fun (2) 37:14;75:1 funds (2) 47:5;59:12 fungus (1) 18:2 futility (1) 54:14 future (10) 32:7,10,15;34:6; 45:3,16;59:23;68:8; 72:11;83:18</p>	<p>66:12 gatherings (1) 59:9 gave (2) 35:17;66:20 geese (1) 26:3 general (1) 20:5 generated (1) 74:11 generation (1) 84:9 generations (17) 13:24;25:13;32:16; 33:6;34:4;43:4;44:3, 8;45:4,15;47:24,24; 63:18;65:19;72:11; 84:13;85:1 generic (1) 78:6 gentleman (6) 20:17;65:7;68:23; 70:16;77:1;78:12 gentlemen (1) 9:23 geography (1) 85:17 geologist (1) 17:3 GEORGE (2) 31:16,17 G-E-O-R-G-E (1) 31:17 geotechnical (2) 39:12;74:5 geothermal (1) 74:5 gets (2) 30:4;78:4 Gibraltar (4) 17:14;18:22;20:17, 21 gifted (1) 32:13 gillnetter (1) 25:12 given (5) 18:20;53:18;59:11; 61:10;64:11 giving (4) 5:10;13:8;63:10; 65:17 glad (2) 27:8;77:19 GMO (1) 48:17 God (1) 21:9 goes (4) 17:15;41:14;46:3; 61:23 Gold (2)</p>	<p>46:7;72:13 golly (1) 48:14 good (21) 3:7;9:22;14:5;25:9; 41:11;42:5,23;48:15; 50:3;57:13;64:15; 69:17;71:24;73:13; 75:18;77:2;78:15; 80:7;81:6;83:20;85:6 government (6) 52:17;54:19,21,21; 56:11;84:10 governor (1) 54:22 graduating (1) 65:19 grand (1) 14:24 grandchildren (1) 34:6 granddad (1) 13:24 granddaughters (1) 65:18 grandkids (1) 47:24 grandpa (3) 35:22;47:21,21 grant (1) 11:18 gravel (1) 18:9 great (6) 8:24;9:3;32:9; 47:21,22;69:3 greatly (1) 9:25 greed (3) 42:14;55:10;56:5 green (2) 17:20,21 grew (7) 25:10;31:18,20; 35:5,21;71:4;83:11 grievance (1) 55:24 grind (1) 66:13 ground (2) 31:11;85:18 groundwater (4) 15:22,24,25;16:3 group (2) 76:25;79:8 groups (2) 79:18,20 grow (2) 75:2;83:21 Growing (1) 44:1 grown (1) 65:18</p>	<p>guarantee (1) 76:14 guaranteed (1) 43:5 guess (7) 21:22;35:23;36:13; 69:24;80:20;82:9; 85:4 guide (2) 57:25;58:1 guided (1) 59:7 guideline (1) 39:19 guilty (1) 9:2 guts (1) 74:25 guy (1) 55:18 guys (18) 13:12;25:25;27:15; 28:2,17;29:22;32:18; 34:22;38:19;47:19; 56:2;63:10;64:7; 77:13;78:19,20; 79:21,23 gym (1) 54:24</p>
				H
				<p>habitat (3) 24:25;69:5;83:8 half (4) 55:12,25;67:2;70:9 Hall (1) 10:7 hand (3) 8:9;21:21;54:10 handful (1) 20:14 hands (1) 22:18 handwritten (1) 6:16 HANSEN (4) 24:1,3,12,13 H-A-N-S-E-N (2) 24:3,13 happen (22) 18:5;31:9,9;32:12; 33:8;42:5,10;43:13; 45:24;46:10,13; 51:18,21,22;52:8; 62:9,15,18;69:16; 70:21;82:20;84:22 happened (1) 76:7 happening (6) 37:5;51:13;52:22; 68:5;76:15;79:7 happens (7)</p>

<p>16:5;21:13;34:9; 51:4;54:20;82:16; 84:19 happy (2) 45:11;67:5 Harbor (1) 85:10 Harbors (1) 10:23 hard (7) 17:23;62:17;75:4,6; 77:14,15;80:18 hardened (1) 17:20 harder (1) 79:4 hardly (1) 74:2 harvested (4) 36:7,8;38:6;41:20 hatcheries (2) 17:23;18:1 hate (2) 38:23;41:11 HAZENBERG (4) 70:10,23;71:2,3 H-A-Z-E-N-B-E-R-G (1) 71:3 head (1) 4:4 heads (2) 26:7,8 headwaters (4) 35:5;36:1,12;44:16 heals (1) 16:10 health (5) 39:15;43:16,17; 51:10;60:15 healthy (2) 48:15;49:19 hear (8) 3:11;9:4,7;13:14; 21:4;58:21;80:21,22 heard (4) 15:23;34:21;76:4; 77:16 hearing (11) 6:13;8:19;9:17; 10:1,5;12:18;13:2,14; 33:3;47:22;78:12 hearings (2) 34:19;79:21 heart (1) 57:7 hearted (1) 48:12 heavy (4) 18:3,15;24:20; 58:21 Heiden (1) 44:1 held (2)</p>	<p>12:4;15:18 helicopter (1) 56:6 Hello (5) 16:23;25:5;31:16; 37:9;42:18 help (7) 5:10,11;8:12;9:14, 18;31:12;62:1 helpful (2) 5:2;14:3 helpless (3) 54:13,25;84:24 herd (1) 35:24 Hi (3) 14:21,23;68:25 high (4) 28:11;36:23;59:10; 75:6 higher (3) 28:5;31:11;36:20 highlight (1) 29:22 highly (1) 34:16 highway (1) 56:8 HILL (2) 85:4;86:3 hired (1) 50:15 historic (1) 58:10 history (10) 15:16;19:20;40:1; 54:8,9;65:17;67:25; 72:16;79:1;85:21 Hobbie (4) 4:4;13:13,20;70:6 hobbies (1) 40:2 hold (1) 59:8 holding (3) 16:6;34:19;81:19 home (4) 10:18;28:21;36:9; 60:3 homeland (1) 55:6 homesite (2) 85:7,9 homework (1) 72:7 honestly (1) 47:1 hope (3) 32:18;34:18;78:7 hopefully (4) 65:23;72:8;81:5,7 hospitality (2) 9:25;77:21</p>	<p>host (2) 59:8,9 hour (1) 77:6 hours (4) 15:5,6;17:22;77:11 house (2) 49:5;54:7 hub (1) 27:18 hug (6) 26:17;51:18;62:10; 63:1;75:5;76:16 human (2) 15:12;51:10 humongous (1) 23:12 hundreds (3) 44:9;51:14;75:24 hunt (1) 25:9 hunter (1) 42:21 hunters (1) 51:25 hunting (2) 31:20;83:4 husband (3) 49:5;71:21;85:11 Hydro (1) 21:6 hydrology (1) 46:23</p>	<p>52:14;78:25;79:2; 83:1 imagine (4) 18:3;32:6,12,16 Impact (34) 3:10,13;5:6;11:6; 12:22;32:6,19;33:17; 34:15,16;39:15; 42:23;43:18;44:14; 45:24,25,25;51:10,17; 53:4;58:11;59:19; 60:5;62:24;63:20; 65:20,22;67:14;72:1, 10,18;76:5;81:15; 82:2 impacted (4) 32:4;33:24;34:10; 43:3 impacting (1) 83:14 impacts (18) 11:1,8;12:2,12; 24:17;33:4;42:24; 43:2;45:3;50:9;51:18; 58:12;62:12,14; 63:13;81:17,18,20 impediment (1) 23:17 important (14) 5:7,9;8:1;14:2; 26:4;27:24;33:24,25; 44:2;61:4;67:7;72:9; 75:13;84:23 impossible (1) 27:14 impoundment (1) 21:18 impressive (1) 35:3 inches (1) 22:22 include (4) 7:4;39:11;51:20; 52:15 included (2) 12:5;51:16 includes (4) 7:3;11:24;44:9; 77:24 including (6) 11:13;12:10;46:18, 19;50:17;52:13 income (2) 14:2;63:25 incomplete (1) 60:8 inconvenience (1) 3:14 increased (1) 18:17 incredibly (1) 61:11 independent (1)</p>	<p>3:9 indicative (1) 19:20 indigenous (2) 52:7;72:15 individuals (1) 70:21 industrial (2) 40:3,11 industry (9) 33:22;38:8;40:21; 58:25;59:16;67:18; 68:16;71:5;72:16 inform (3) 11:10;39:17;52:21 information (18) 5:4,13,23,24;6:1; 7:6;12:19,23;13:3; 34:8;49:1;50:8,18; 52:15,24;75:13,17; 81:13 informed (3) 11:23;12:6;13:1 infrastructure (5) 19:5;50:10;53:15; 58:17,24 initial (2) 24:2;50:12 initially (1) 72:3 initiated (1) 11:4 injected (1) 66:14 in-laws (1) 41:5 Inlet (5) 17:15;65:13,16; 68:18,20 input (1) 11:22 Institute (1) 21:24 instructed (1) 9:17 instructions (2) 7:24;9:14 intensified (1) 85:17 intensive (1) 50:16 interactions (2) 20:5,6 interest (2) 39:19,21 interested (3) 7:20;64:25;70:17 interesting (4) 65:15,25;66:14; 67:14 Interestingly (1) 38:9 internationally (1)</p>
		I		
		<p>ice (11) 22:23;23:3,8,10,11, 13,16,20,21;27:12; 36:23 Idaho (1) 66:18 idea (1) 58:5 ideas (2) 67:10,11 identifies (1) 11:7 Igiugig (3) 23:6;31:18;41:4 ignorant (2) 29:13,14 ignore (1) 45:2 ignores (1) 58:11 ignoring (1) 24:16 Iliamna (21) 17:1,11,13;18:23; 19:4,24;21:23;23:19; 33:12;35:5,6,21,25; 36:5,20,25;37:2;</p>		

20:2 Internet (3) 20:24;21:20;56:23 into (30) 10:24;12:7;17:3,20; 18:14;34:6;36:2,4,4, 6;39:22;52:6;53:13; 54:15;57:8;59:3,15; 66:13,14;67:19;68:8, 20;73:25;78:20,25; 79:25;80:5;81:22; 82:14;84:17 introduce (1) 3:22 intrusive (1) 8:22 invested (1) 40:20 investment (1) 55:9 investors (1) 26:18 inviting (1) 9:24 invocation (2) 3:5,6 involved (4) 17:10;57:22;65:16; 66:24 involvement (1) 4:14 iron (1) 21:11 ISAACS (43) 3:2,7,8,9;20;10:2; 13:6;14:13,18;16:22; 23:25;24:11;25:4; 31:15;32:21;34:24; 37:8;42:17;43:22; 45:8;47:10,15;48:22; 50:2;53:24;57:12; 60:11;62:4;63:5; 64:10,17;65:4;68:23; 69:10;70:3,8,11,24; 71:17;73:7;74:20; 76:23;78:11;81:2 Island (2) 22:13,13 islands (1) 22:13 issue (6) 15:1;25:1;39:20; 72:10;76:5;79:18 issued (1) 7:10 issues (1) 12:20 issuing (1) 5:16	53:25;54:1,1,9; 55:12 Jenkins (1) 28:15 jeopardize (2) 34:1;40:13 jeopardy (1) 32:11 Jessica (1) 32:23 jet (1) 18:17 job (6) 14:2,22;15:3;32:15; 42:23;46:23 jobs (8) 33:18,20,21,25; 59:1;71:6,11;76:20 John (2) 53:25;70:6 JOHNSON (2) 42:18,19 JON (42) 3:2,7,8,9;20;13:6; 14:13,18;16:22; 23:25;24:11;25:4; 31:15;32:21;34:24; 37:8;42:17;43:22; 45:8;47:10,15;48:22; 50:2;53:24;57:12; 60:11;62:4;63:5; 64:10,17;65:4;68:23; 69:10;70:3,8,11,24; 71:17;73:7;74:20; 76:23;78:11;81:2 Joni (1) 25:11 Joshua (2) 32:22,22 Jr (2) 31:16,17 J-R (1) 31:17 July (1) 18:13 jump (2) 27:10,14 jumps (1) 30:2 June (4) 18:12;22:24;23:3,8 justify (1) 26:10	4:5 keep (13) 8:3,12;26:19;44:18; 45:4,5;47:3,11;68:15; 76:14;80:9,17,17 keeping (1) 73:2 keeps (1) 81:5 Kendall (1) 4:7 kid (2) 81:6;82:21 kids (5) 25:9;32:16;63:18; 64:2;81:4 kill (1) 17:23 killing (1) 51:14 kind (14) 13:16;18:17;32:4; 36:2;40:2;54:13; 60:19;65:15;67:14; 78:5;79:3,4;80:2; 83:15 King (11) 20:15;25:23;26:7,8; 30:9;40:8;46:7;57:17, 20;83:13;84:3 kings (5) 23:1;25:21,25;26:4, 11 KLOSTERMAN (1) 83:10 knew (2) 54:5;55:16 knowing (1) 46:15 knowledge (2) 44:8;46:22 known (1) 44:11 KNUTSEN (2) 48:23;49:3 Kodiak (1) 73:17 Kokhanok (8) 18:24;20:7,9,21; 22:14;23:11;83:2; 85:8 Koktuli (3) 25:19;35:9;36:1 Kvasnikoff (2) 82:5,5 K-V-A-S-N-I-K-O-F-F (1) 82:6 Kvichak (1) 38:14	34:7;52:24 lacking (2) 50:14,16 ladies (1) 9:23 lagoon (1) 16:12 Lake (31) 17:1,12,13;21:23; 22:1,4,8,11,21,22; 23:6,12,19;28:8; 33:11;35:5,5,21,25; 36:4,16,20,22,25; 37:2;52:14;74:1; 78:25;79:1,2,3 land (15) 15:3;26:11;30:3; 32:13;43:3;44:10,21, 23;58:5,16;84:5,13, 16,18;85:2 landing (1) 27:8 lands (3) 33:5;34:11;50:10 landscapes (1) 51:15 LANG (2) 81:9,10 L-A-N-G (1) 81:10 language (1) 45:21 languages (2) 52:7,11 large (6) 15:6,11;39:8;71:8; 83:16,21 largest (5) 32:2,8;53:15;73:14, 15 last (33) 11:25;13:10;16:19; 18:11,14;19:11; 20:25;21:2,22;24:2; 25:23;32:1,3,8,24; 36:7;38:9,22;40:13; 41:18;47:20;54:24; 56:18;63:8;64:11; 67:20;68:4;71:22,24; 74:11,12;77:11;81:9 last-minute (1) 10:3 late (4) 18:13;23:2;65:10; 73:13 lately (3) 55:15;68:4;75:22 later (3) 17:22;29:8;66:25 law (1) 15:10 lawyers (1) 56:2	laying (1) 36:21 LAYLAND (2) 50:3,4 L-A-Y-L-A-N-D (1) 50:4 lead (1) 86:2 leader (1) 54:7 leadership (2) 9:23;64:23 leaking (1) 24:19 lean (1) 46:21 learn (2) 8:19;59:4 learned (2) 15:5;28:14 least (4) 16:17;40:1;65:5; 82:22 leave (6) 16:14;17:7;18:15; 28:8;76:20;84:20 leaving (1) 16:12 Lee (1) 25:11 left (3) 16:19;32:2;46:25 Legislature (1) 54:6 length (2) 53:14;72:3 lenient (1) 80:19 less (3) 19:3;31:7;46:8 lethal (1) 16:15 letter (1) 52:25 liaison (1) 4:8 library (2) 26:23;41:24 license (1) 13:12 licensing (1) 86:2 lie (1) 42:12 Lieutenant (4) 4:2;9:15,21;10:10 life (20) 13:25;19:18;25:9; 34:3;38:2;42:20,25; 43:19;44:3;50:11; 68:15;69:3,22;71:5; 79:1;82:7,8,23;83:12; 84:23
J	K	L		
JACK (5)	KAKDE (2) 71:19,20 K-A-K-D-E (1) 71:20 Kansan (1) 10:15 Katie (1)	lack (2)		

<p>lifelong (2) 10:15;24:3</p> <p>lifestyle (2) 80:1;84:7</p> <p>lifestyles (1) 44:19</p> <p>lifetime (4) 37:23;58:17;62:16; 65:25</p> <p>lightly (1) 22:16</p> <p>Limited (8) 3:25;6:3,9;11:2,15; 12:20,25;69:4</p> <p>LINDSAY (2) 50:3,4</p> <p>L-I-N-D-S-A-Y (1) 50:4</p> <p>list (4) 21:1,2,5;27:5</p> <p>listen (3) 4:18;9:8;58:21</p> <p>listening (3) 11:21;29:9;36:21</p> <p>little (18) 17:24;19:10;22:3,6; 27:6;36:3;37:18;40:1; 41:21;49:21;65:10, 12;66:13;76:15;79:4; 80:14,18;85:9</p> <p>live (17) 14:7,8;18:2;30:16; 31:18;41:6;45:10,11, 18;62:7;69:14;80:16; 84:3,5,6,14,15</p> <p>lived (13) 14:4;42:19;44:6; 49:3;57:20;63:15; 68:10;71:22,23;75:8; 78:25;83:12;84:5</p> <p>livelihood (3) 40:23;72:10,16</p> <p>livelihoods (2) 34:10;71:12</p> <p>lives (1) 14:8</p> <p>living (3) 44:9;49:4;85:22</p> <p>local (5) 14:3;32:11;51:25; 54:21;56:11</p> <p>located (3) 23:15;53:16;57:16</p> <p>location (1) 27:18</p> <p>locations (1) 16:2</p> <p>Lodge (6) 57:15;58:2;59:3,5, 8,9</p> <p>logistics (1) 50:20</p> <p>long (12)</p>	<p>8:14;9:6;13:18; 34:6,11;35:6;50:13; 56:21;58:6;62:17; 66:11;78:9</p> <p>longer (3) 57:23;72:21;73:25</p> <p>long-term (3) 46:2;62:8;63:13</p> <p>look (18) 5:9,25;13:2;19:9, 12;21:20;32:9;38:21; 45:16,20;49:2;50:13, 15;59:22;67:15,19; 68:8;79:13</p> <p>looked (2) 29:4;64:21</p> <p>looking (11) 4:12;18:20;53:6; 61:13,14,14;66:21; 67:2;68:11;74:9; 85:21</p> <p>looks (1) 14:16</p> <p>Lorri (2) 47:16,16</p> <p>lost (2) 22:17;58:19</p> <p>lot (44) 5:23,24;6:1;25:7; 26:7;27:2,3,21;28:11; 29:4,14;35:7;37:14; 40:24;44:9;45:21; 47:2,18;48:12,12; 49:1;63:13;64:3,3,4; 66:18,25;67:8,9;68:3, 8;72:1;75:3,3,9,23; 76:10;79:7;80:3,5,11, 22;81:13;83:21</p> <p>Lots (1) 27:19</p> <p>love (1) 26:7</p> <p>low (3) 37:20;40:10;51:17</p> <p>Lower (3) 22:25;60:17;80:12</p> <p>low-grade (1) 29:6</p> <p>LT (25) 9:22;14:12;16:21; 24:10;25:3;32:20; 34:23;40:16;42:16; 43:21;50:1;53:23; 57:11;60:10;63:4; 64:9,16;69:9;70:2; 71:16;73:6;74:19; 76:22;77:8;80:25</p> <p>luck (1) 23:24</p> <p>lucrative (1) 68:16</p> <p>lying (4) 42:13;50:22,23;</p>	<p>55:14</p> <p>LYON (2) 57:13,14</p> <p style="text-align: center;">M</p> <p>ma'am (10) 24:10;50:1;53:23; 60:10;63:4;64:9; 71:16;73:6;76:22; 77:3</p> <p>machines (1) 27:11</p> <p>Mad (1) 56:18</p> <p>magnitude (2) 43:14;74:12</p> <p>mail (3) 6:17,19,20</p> <p>mainly (2) 45:12;64:2</p> <p>major (11) 18:22;21:4;25:23; 34:9,15;43:2;50:16, 18;51:12,21;52:12</p> <p>majority (6) 33:2;39:23;54:7; 82:7,8,12</p> <p>making (7) 4:11;5:11;7:3,11, 12;9:9;12:24</p> <p>MALE (1) 47:13</p> <p>man (6) 21:25;29:13;35:3; 39:25;56:24;85:21</p> <p>man/bear (2) 20:5,6</p> <p>managed (1) 73:19</p> <p>management (1) 64:23</p> <p>manager (2) 4:10;37:11</p> <p>man's (2) 40:2,11</p> <p>many (23) 6:8;7:16;8:5;11:12; 16:1,1;20:22;22:3,7,7, 17;31:21;40:22; 45:22;46:15,18,18; 49:8;53:1;56:2;59:8; 69:20;77:25</p> <p>MARDESICH (2) 53:25;54:1</p> <p>M-A-R-D-E-S-I-C-H (1) 54:2</p> <p>MARILYN (2) 24:1,2</p> <p>M-A-R-I-L-Y-N (1) 24:2</p> <p>MARTIN (2) 14:21,23</p>	<p>MARVIN (1) 81:3</p> <p>Mary (2) 4:15;7:23</p> <p>mass (1) 56:23</p> <p>masses (1) 56:25</p> <p>massive (10) 15:8;16:12;34:12; 36:6,11;53:15,16; 62:14;69:19;74:4</p> <p>masterminds (1) 67:9</p> <p>material (4) 10:24;21:13;36:16; 60:7</p> <p>materials (2) 36:18;37:1</p> <p>math (1) 53:3</p> <p>MATSON (2) 68:25;69:1</p> <p>matter (3) 49:21;69:15,15</p> <p>MAUREEN (2) 48:23;49:3</p> <p>may (11) 5:5;8:18;11:22; 13:3;23:2;33:16; 39:20;68:24;70:18; 74:15;85:14</p> <p>maybe (8) 17:21;38:3;49:15; 62:1;74:16;76:24; 83:17;85:4</p> <p>mayor (5) 3:4,6;35:22;55:16, 16</p> <p>mayor's (1) 67:20</p> <p>McCafferty (1) 4:6</p> <p>McCoy (1) 4:6</p> <p>McNeil (4) 20:3,6,13,19</p> <p>mean (6) 26:15;35:22;44:19; 61:20;79:25;83:2</p> <p>means (3) 8:15;42:2;75:10</p> <p>measures (2) 7:8;86:1</p> <p>mechanism (2) 54:19;57:1</p> <p>Mediterranean (1) 19:16</p> <p>meet (1) 4:21</p> <p>meeting (10) 4:12,23;9:2,13,15; 12:4;28:15;67:3,20;</p>	<p>76:9</p> <p>meetings (1) 59:9</p> <p>megawatt (1) 53:16</p> <p>melt (2) 82:12,15</p> <p>melting (1) 81:18</p> <p>member (1) 24:4</p> <p>members (6) 4:9;22:17;33:7; 34:21;52:18;78:1</p> <p>men (3) 56:18;84:11,15</p> <p>mention (4) 30:22;55:4;65:20; 75:25</p> <p>mentioned (2) 11:10;58:19</p> <p>mess (1) 84:21</p> <p>message (1) 60:6</p> <p>met (1) 28:16</p> <p>metals (1) 24:20</p> <p>microphone (1) 9:21</p> <p>middle (7) 9:1;18:8,12;22:24; 24:2,24;71:21</p> <p>midway (2) 13:15,16</p> <p>might (15) 5:2;7:4,5,6;8:14; 12:2;22:18;55:2; 60:23;64:14;73:15; 74:9;76:24;77:2,4</p> <p>migrate (2) 22:5;33:11</p> <p>migration (1) 33:9</p> <p>mile (1) 62:7</p> <p>miles (12) 29:24,24;30:2,3,5; 31:5;35:6,6;44:2; 73:22;74:6,6</p> <p>military (2) 56:13,21</p> <p>mill (1) 66:13</p> <p>millennia (1) 45:18</p> <p>million (7) 36:7,8,9;38:12; 41:19;67:1,2</p> <p>mind (4) 14:19;66:9;72:3; 80:17</p>
---	---	---	---	---

<p>Mine (87) 3:11;9:6;11:17; 13:12;14:1,5,8;15:20; 16:3;20:24;21:17; 24:8,19;25:20;26:12, 16,19;28:7,18,20; 29:5,7,13;30:12,19, 19;31:19;32:10;33:5, 10;35:18;37:25;38:2; 39:2,4,24;40:10; 41:14;42:9,22;43:6; 44:1,12,17,20,23; 45:3,5,24,25;46:2,7, 14,24;49:24;50:9,25; 51:1,25;53:15;55:11, 11;58:5,18;59:20,21, 23;62:10,16;64:6; 67:19;69:1,7,15,22; 74:9,16;75:20;81:3,5; 83:3,11;84:7,17,22; 85:24;86:2</p> <p>minerals (3) 29:4;48:1;67:22</p> <p>mines (4) 21:11;39:6;45:25; 46:15</p> <p>mine's (1) 58:13</p> <p>miniature (1) 58:18</p> <p>mining (7) 24:16;63:1;71:9; 75:4;80:4;83:16,22</p> <p>minutes (4) 8:4;14:25;22:8,9</p> <p>missed (2) 7:7;63:9</p> <p>missing (1) 43:12</p> <p>mistaken (2) 7:18;14:13</p> <p>mistakes (1) 68:17</p> <p>MITCHELL (2) 84:1,1</p> <p>M-I-T-C-H-E-L-L (1) 84:2</p> <p>mitigation (3) 7:8;72:23;73:1</p> <p>molybdenum (2) 39:7;72:13</p> <p>money (20) 27:15;34:12;39:4; 42:14;43:7;44:24; 47:6;49:5;51:5,9,11; 55:11,13;56:5;57:6,7; 61:7,8;66:25;68:2</p> <p>Montana (2) 66:18;75:2</p> <p>months (2) 16:11;35:11</p> <p>moose (4) 24:7;25:10;31:21;</p>	<p>83:6</p> <p>more (36) 5:6;7:12;8:9,18; 16:15;21:18;25:17; 27:1,2,2,5;29:16; 30:17,19,20;39:17; 41:2;45:18,19;51:1; 57:19;59:15;60:4; 61:24;63:13,14;64:6; 65:5,12;68:8,18; 70:12,14;72:11;73:3; 74:21</p> <p>morning (1) 58:21</p> <p>MORRIS (2) 57:13,14</p> <p>most (12) 7:2;11:23;13:1; 23:20;38:3;40:14; 42:3;53:17;61:3,3; 62:8;67:3</p> <p>Mother (5) 41:1,2;42:10;74:15; 79:2</p> <p>motivating (1) 42:14</p> <p>motor (1) 74:2</p> <p>Mount (7) 15:12,13,18;19:23; 27:23;39:9;76:12</p> <p>Mountains (1) 75:6</p> <p>mourn (1) 59:11</p> <p>mouth (1) 20:16</p> <p>move (5) 17:25;40:3;64:7; 80:5;82:17</p> <p>moved (1) 29:1</p> <p>movies (1) 68:4</p> <p>moving (3) 10:13;18:3;83:11</p> <p>much (19) 8:24;22:22;27:13; 31:13;34:12;60:4; 61:25;65:2;67:10; 72:11;73:3;74:8,18; 75:12,15;78:21,23; 79:24;82:1</p> <p>multiple (1) 11:24</p> <p>multiply (1) 17:24</p> <p>Murkowski (1) 46:19</p> <p>Murphy (2) 4:13;7:13</p> <p>Murphy's (1) 15:10</p>	<p>myriad (1) 49:9</p> <p>myself (6) 9:2;13:24;29:7; 32:25;53:7;57:8</p> <hr/> <p style="text-align: center;">N</p> <hr/> <p>Naknek (16) 3:15;4:17;10:6; 24:4;25:18;31:18; 33:1;37:12,13;45:11; 57:17;62:7;77:22; 78:18;79:12,14</p> <p>Naknek/Kvichak (1) 38:14</p> <p>name (37) 3:8;7:1,25,25;10:9; 16:23;24:2,3,12;25:5; 31:16;32:22,24;37:9; 40:17;42:18;43:23; 45:9;47:16;49:3;50:4; 53:25;60:13;62:6; 63:7,8;65:8;69:12; 70:25,25;71:2,19; 73:10,11;74:23; 78:17;81:10</p> <p>names (1) 8:1</p> <p>NANCI (2) 57:13,14</p> <p>National (2) 5:5;39:1</p> <p>Native (6) 3:16;10:6;24:4; 25:15;30:23;45:4</p> <p>natural (3) 37:11;85:20,24</p> <p>nature (7) 19:7;41:1,2;42:11; 72:21;74:15;85:14</p> <p>navigable (2) 11:1;21:13</p> <p>near (3) 19:23;20:16;51:25</p> <p>nearby (1) 17:2</p> <p>necessarily (1) 59:18</p> <p>necessary (1) 52:6</p> <p>need (28) 15:21;21:22;22:18; 26:12,16;28:23; 29:16;30:17,18,19,20; 31:11;33:20,21;39:4, 7;49:22;61:7;62:21, 23,23;63:1,24;68:7; 73:1;76:2;80:8;85:24</p> <p>needed (2) 23:2;56:9</p> <p>needing (1) 72:22</p>	<p>needs (4) 39:22;62:16;64:6; 65:11</p> <p>negative (3) 11:8;45:3;46:10</p> <p>negatively (3) 20:1;33:23;43:18</p> <p>negativity (1) 56:3</p> <p>neighbors (2) 74:25;75:20</p> <p>NELSON (2) 25:5,6</p> <p>NEPA (3) 5:5;11:9;64:20</p> <p>nervous (1) 71:25</p> <p>net (2) 37:22;48:14</p> <p>new (4) 4:8;30:1;65:13; 68:19</p> <p>Newhalen (2) 17:14;83:2</p> <p>news (3) 56:23;64:3;73:16</p> <p>Next (5) 13:9;14:14,19; 16:10;65:7</p> <p>nickname (4) 54:1,9,10;56:4</p> <p>night (3) 21:25;22:5;38:9</p> <p>nights (1) 22:7</p> <p>nine (1) 37:15</p> <p>nobody (3) 15:17,19;70:15</p> <p>nonaction (1) 46:24</p> <p>none (1) 64:4</p> <p>nonrenewable (1) 67:21</p> <p>noon (1) 3:17</p> <p>nor (1) 59:24</p> <p>normal (1) 34:11</p> <p>Norsk (1) 21:6</p> <p>north (3) 33:11;73:14;76:7</p> <p>Northern (1) 29:11</p> <p>northwest (1) 36:16</p> <p>nose (1) 26:20</p> <p>notch (1) 23:11</p>	<p>noted (1) 39:24</p> <p>notice (1) 10:8</p> <p>noticed (2) 27:7;65:12</p> <p>Novagold (1) 52:9</p> <p>November (2) 60:1;74:11</p> <p>nowadays (1) 48:19</p> <p>number (8) 7:19,19,21;17:12; 19:19;38:13;64:11; 69:11</p> <p>nurse (1) 60:14</p> <p>Nushagak (9) 23:2;25:19,23,25; 30:24;36:2,8;38:15; 52:13</p> <hr/> <p style="text-align: center;">O</p> <hr/> <p>obvious (2) 67:11;75:21</p> <p>occasional (1) 9:11</p> <p>occur (2) 19:21;74:6</p> <p>occurs (3) 43:2,14;51:22</p> <p>odd (1) 69:18</p> <p>off (17) 8:24;9:1,1,19;9,10; 20:12;22:11,13;32:8; 40:24;44:9;46:25; 47:11;77:9;83:6;84:5, 15</p> <p>offered (1) 3:6</p> <p>offers (1) 60:5</p> <p>office (1) 56:12</p> <p>official (1) 56:14</p> <p>offspring (1) 45:16</p> <p>often (3) 10:24;18:11,12</p> <p>O'Hara (2) 3:6;35:1</p> <p>oil (4) 65:21;66:10;67:20; 68:14</p> <p>oily (1) 26:5</p> <p>old (3) 37:15;39:25;56:24</p> <p>OLSEN (1)</p>
--	--	--	---	---

<p>81:3 Once (9) 6:13;19:12,13;28:3; 44:12;80:20;82:11, 16;83:5 one (44) 4:14;6:4,9,21;7:22; 8:21;16:18;21:2,7,11; 22:13;23:8;29:22; 30:22;32:3,3;35:18; 36:14;37:4;38:13,22; 40:2,13;41:7;42:6; 46:7;49:14;51:13; 53:16;58:20;59:21; 61:3;65:18;67:22; 70:16;71:12;73:15; 75:21;76:2,15;77:3, 14;79:9,21 one-and-a-half-million-dollar (1) 62:22 ones (1) 49:15 online (1) 52:25 only (27) 16:9,9;17:6;18:7; 20:20;24:17;26:25; 29:17;30:6;32:2; 39:20;43:6;45:5;50:5, 25;51:8;53:21;56:22; 59:20;65:14;67:18; 68:16;72:4;75:13; 76:8;84:7,12 open (5) 22:23;53:15;59:5; 66:4;77:23 open-minded (1) 80:3 operate (1) 18:15 operation (1) 57:16 operations (1) 11:17 operator (3) 57:15;58:1;83:12 opinion (2) 35:17;41:10 opinions (2) 9:5;78:22 opponent (2) 12:15;37:14 opportunity (1) 38:25 opportunities (4) 8:17;32:17;59:2,13 opportunity (11) 8:11;10:14,17;13:9; 33:2;35:2;40:19; 58:16;59:4,11;70:13 oppose (5) 37:25;39:23;69:1,7; 75:20</p>	<p>opposed (1) 69:14 opposing (1) 42:21 option (3) 17:6;70:19;72:19 orcas (1) 40:9 order (1) 59:22 orders (3) 54:20;56:14,14 ore (3) 28:2,4;51:3 Oregon (1) 40:5 organization (1) 50:15 originally (1) 84:2 others (5) 8:19;40:22;44:4; 46:19,21 ours (1) 80:2 ourselves (1) 67:18 out (62) 3:17;4:20;5:1,24; 6:21;7:6;16:6;17:2; 18:2;19:8,12,15,17; 21:4,10;22:8,14;23:4, 8,10,16,20;24:16; 25:12;27:6,20;28:1,9; 30:6,13,13;31:23; 32:17,19;35:8,18; 41:1,8;42:8;44:17; 45:5;49:18;51:4; 52:24;57:8;62:11; 64:11;66:2,6,11;67:1, 22,24;73:2;74:24; 76:17;79:4,6;80:8,18; 81:23;82:3 outage (1) 3:18 outboard (1) 74:2 outcome (2) 50:5;53:21 outcomes (1) 44:21 outlining (1) 42:24 outreach (1) 52:20 Outside (1) 84:17 over (34) 3:19;4:11,12,23; 9:13,15,21;14:24,25; 16:10;17:14;19:18; 20:4,20;23:11;26:3, 22;27:8;44:6;45:20;</p>	<p>48:4;53:3,4,5;56:8; 57:3;58:3,14;76:25; 77:20;81:4;82:14; 85:8,10 overlooked (1) 81:16 overseers (1) 58:5 overtrap (1) 41:3 own (1) 52:11 owner (2) 57:15;58:2 ownership (2) 30:23;46:15 oxidizing (1) 28:12</p> <p style="text-align: center;">P</p> <p>Packers (1) 38:10 page (1) 24:15 pages (6) 26:22;50:13;53:5,6, 9;72:22 paid (2) 37:16,17 paperwork (1) 48:13 parents (1) 72:7 parks (1) 41:24 part (13) 11:5;23:20;30:22; 40:22;41:1,16;44:3; 47:19,22;58:13;61:9; 66:7;72:15 partake (2) 31:24;71:5 participate (1) 10:1 particular (3) 5:23;15:1;74:9 particularly (2) 8:18;21:17 parties (1) 59:8 partners (1) 47:1 Partnership (7) 3:25;11:2;24:23; 30:6;52:5,20;58:4 Partnership's (3) 12:21,25;69:4 parts (2) 35:25;49:18 Pass (4) 14:17,18;22:9; 47:23</p>	<p>passed (3) 25:8;44:8;54:8 passes (1) 34:24 passionate (1) 77:15 past (3) 51:12;69:20;72:2 patch (3) 65:21;66:10;68:14 path (1) 23:20 patience (1) 81:2 patient (1) 80:20 Patricia (2) 63:7,7 patterns (2) 33:9;85:16 Patty (3) 4:13;7:13,22 PAUL (6) 13:8,18,22;24:12, 13;25:6 P-A-U-L (1) 24:13 pay (1) 79:19 peak (1) 36:6 Pebble (50) 3:11,25;4:19;5:15; 6:3;9:6;11:2;12:20, 25;13:11;14:1,5,8; 16:11;17:5;24:23; 29:11;30:6;33:5,19, 24;35:15;41:14;42:8; 43:6,18;44:1,17; 46:17;47:1;49:24; 50:7,22;51:22;52:5, 19,20,23;57:22;58:4, 24;69:1,3,7;75:20; 76:10;83:11;84:7,17, 22 pebbleprojecteiscom (2) 6:5;78:4 Pebble's (4) 11:14;12:3,11;50:5 peers (1) 72:12 Peninsula (1) 33:13 Peninsular (1) 52:14 Penny (27) 4:3;9:22;10:9; 14:12;16:21;24:10; 25:3;32:20;34:23; 40:16;42:16;43:21; 50:1;53:23;57:11; 60:10;63:4;64:9,16; 69:9;70:2;71:16;73:6;</p>	<p>74:19;76:22;77:8; 80:25 people (93) 3:19,22;4:11;5:25; 6:14,24;7:16,19,24; 8:5,6,22;9:5,12;14:4, 9;15:12,14,15;18:1; 19:5;22:15,17,25; 25:7;27:1,12,17; 29:12;32:25;33:6,16, 19;34:4,5,7,10;35:8, 22;40:8;41:8;43:9; 44:15;47:18;48:3,7, 13;49:1;50:23;51:14, 24,24;52:10,12,17,21, 22;53:1;55:13;56:1; 58:14;59:12;61:17; 62:1;64:12,12;65:16; 66:22;68:20;69:6; 70:12;71:7,11;72:22; 73:3;74:8;75:3,17,24; 76:2;79:3,6,10,13,14, 17,18,24;80:10,11; 84:13,20;85:5 people's (1) 75:23 percent (9) 25:21;26:11;29:17; 30:7,9,10;38:15,18; 41:18 percentage (1) 28:12 perhaps (4) 64:12,17;74:6,8 period (14) 11:13;18:6;46:17; 49:1;53:3,7,10,14; 72:4,5,21;75:14,16; 82:1 permafrost (3) 81:18;82:12,15 permanently (2) 58:25;69:4 permit (17) 3:25;5:16;7:9; 10:20;11:2,5;12:17, 21,25;17:5;24:23; 39:17,20;50:6;51:7; 52:23;53:21 permitting (5) 7:9;16:18;35:16; 37:4;72:19 perpetual (1) 62:16 perpetuity (3) 38:4;46:6;69:5 person (8) 13:6;14:14,15; 21:25;54:18,20; 56:12;59:18 personally (3) 14:1,6;37:25 perspective (3)</p>
---	--	---	---	---

<p>15:1;41:21;42:1 pertinent (1) 12:20 PETE (2) 40:17,17 Peter (2) 43:23,23 PFD (1) 75:24 phase (1) 13:15 PHELPS (2) 37:9,10 P-H-E-L-P-S (1) 37:10 phone (2) 8:25;76:9 phones (2) 8:25;47:11 pick (1) 18:1 picked (1) 37:20 piece (2) 52:10;60:3 piles (1) 23:13 Pineapple (1) 85:16 pink (1) 56:16 pioneer (1) 55:12 pipeline (1) 19:1 pit (6) 28:8;43:14;51:2; 53:15;66:4;75:4 pits (2) 66:1,2 place (12) 3:19;14:6;25:18; 27:13;32:5;34:8; 35:10,17;36:5,24; 58:3,8 placed (1) 20:4 places (2) 71:24;79:7 plan (13) 11:17;28:8;34:8; 39:14;43:8,11,13; 46:14;50:21;51:11; 68:19;72:17,17 planet (3) 16:19;32:5;53:17 plankton (1) 22:5 planned (1) 62:10 plans (6) 11:18;18:21;43:10; 50:24;51:1;72:23</p>	<p>plant (2) 46:5;53:16 plead (1) 84:24 please (14) 3:5;7:2,21;13:7; 14:15;24:7;27:5; 30:17,18;48:10; 54:11;71:1;73:10; 81:7 plenty (2) 3:19;73:9 plot (1) 85:9 plus (1) 77:12 pm (1) 86:4 point (10) 5:1;6:21;7:6;22:11; 40:7;42:6;66:14,16; 67:25;83:14 poison (1) 15:22 police (1) 41:23 Policy (1) 5:5 polished (1) 46:16 politics (1) 54:5 Polley (6) 15:12,13,18;27:23; 39:9;76:12 pollutants (1) 85:23 pollute (1) 44:13 pollution (2) 44:13,23 ponds (1) 15:9 pool (1) 41:24 popping (1) 16:1 population (1) 82:10 porcupine (1) 33:14 porphyry (1) 29:7 Port (1) 44:1 portfolio (2) 49:13,17 portrayed (1) 8:2 ports (1) 5:18 positive (1) 11:7</p>	<p>possibility (3) 44:17;59:24;85:19 possible (6) 6:24;11:23;35:10; 62:11,12;78:5 possibly (1) 65:23 post (1) 52:25 posted (1) 78:7 posters (5) 5:1,4,20;7:10;64:19 potential (11) 11:22;42:24;50:9; 52:3;58:12;61:19; 81:14,17,18,20;83:15 potentially (2) 63:25;81:23 pounds (1) 75:24 power (4) 3:18;10:4;53:16; 73:25 powerful (1) 84:25 practice (1) 78:8 practitioner (1) 60:14 precious (1) 61:11 predict (2) 42:10;62:19 prefer (1) 35:16 preferable (1) 18:25 preparation (2) 3:10;11:24 prepared (1) 11:6 present (1) 40:22 presentation (1) 63:9 president (1) 29:10 pressure (6) 36:19,21,22,24,25; 55:25 pretty (12) 21:19;27:6,9,13; 35:3;52:10;53:19; 54:12,25;61:15; 67:10;74:13 prevail (2) 61:2,22 preventing (1) 44:20 previously (1) 11:10 prices (1)</p>	<p>37:19 prison (1) 55:24 private (8) 6:13,15;70:14,17, 20;77:1;78:13,15 probability (1) 51:18 probably (7) 18:10;31:7;54:9; 69:17;73:16;74:13; 83:3 problem (3) 66:7;67:1,24 problems (6) 25:25;29:21;54:19; 60:24;62:12;68:9 proceedings (2) 9:19;86:4 P-R-O-C-E-E-D-I-N-G-S (1) 3:1 process (21) 5:7;11:5,6,12,24; 12:1,7;13:4,14,17; 16:16,18;29:23; 35:16;37:4;43:5; 52:22;64:20,20; 75:17;81:11 processed (2) 25:17;41:20 processes (1) 5:8 produce (4) 38:15;39:6;40:7; 48:10 produces (1) 38:17 product (1) 39:7 profitable (2) 49:16;59:22 profiting (1) 61:25 profits (1) 61:13 project (35) 3:11;4:10,19;5:13; 6:3;7:8,10;9:5;11:8; 12:3,11,16;14:3;17:5; 19:19;24:18,24; 26:23;29:11;34:12, 13;35:10,15;36:5,15; 39:20;42:22;43:9,11; 47:2;50:24;53:11,14; 64:23;76:16 projected (2) 44:12,20 projects (3) 26:14;46:23;80:4 prolific (1) 58:10 promise (1) 44:24</p>	<p>proper (1) 52:19 properly (2) 50:8;61:18 property (1) 11:19 proposal (4) 11:14;39:18;65:13; 69:4 proposals (1) 17:13 proposed (20) 5:15;11:8;12:3,12, 16;15:8;17:9;18:20, 24;23:14;36:15; 39:20;44:1;58:18; 68:19;69:1;74:7,7; 81:15,21 protect (5) 32:15;34:6;43:25; 62:21,23 protecting (2) 62:23,25 protection (1) 14:7 protections (1) 30:20 proven (2) 43:7;51:11 provide (8) 4:21,24;5:4;7:10; 8:11;12:23;13:3; 33:19 provided (1) 81:14 public (25) 4:14,23,25;6:13; 8:1;12:1,4,13,18; 13:14;33:3;39:19,21, 23;47:5;54:16;59:9; 70:15,22;71:25; 72:20;73:8;77:14; 78:12;82:3 pulled (1) 62:11 purposes (1) 12:18 push (2) 23:11;39:2 put (18) 5:9;15:24;26:6,7; 30:6;32:10;37:2; 41:20;56:6,8,12; 66:12;75:24;79:11; 80:5;82:3,14,18 puts (1) 26:5 putting (3) 42:1;47:6;50:25 pyrite (2) 28:7,12 pyroclastic (1) 19:14</p>
--	--	---	--	---

	reality (1) 67:25	51:24;52:8,10,12; 71:22;77:22;83:15	repressed (1) 56:20	43:8 ribbon (1) 56:16
Q	realize (1) 14:2	regional (1) 52:2	reproduce (1) 38:20	rich (1) 37:17
qualify (1) 85:5	realizing (1) 62:11	regions (1) 52:14	request (2) 24:8;51:7	RICHARD (6) 16:23,24;73:11,12; 78:17,17
qualities (1) 58:18	really (36) 3:15;4:17;5:10; 8:10;13:14;26:4,4; 27:8;29:4;30:4,4,10; 31:12;40:7;48:11; 55:4;56:22,25;61:4,7, 24;62:20,23,25;63:1, 17;69:15;72:23;75:1, 14;76:8;77:11,13; 78:6;80:23;82:21	region's (1) 72:15	requesting (1) 11:3	richer (1) 28:4
quality (1) 55:5	reason (4) 31:1;43:9;59:23; 63:24	regulates (2) 10:23,25	require (2) 10:21;69:5	rides (1) 56:6
quick (3) 9:14;47:10;53:3	reasonable (2) 12:10,16	regulatory (1) 4:5	required (2) 5:8;53:12	ridge (1) 36:3
quickly (2) 6:24;78:7	reasons (2) 7:5;75:21	reindeer (1) 35:24	Research (2) 21:24;27:1	right (30) 10:9;15:15,17; 21:21;24:5,24;27:11; 28:20,22,22;31:6; 32:14;41:8;46:4;48:9; 49:19;59:15;60:21; 62:7;65:22;66:6; 67:11;70:15;75:16; 80:25;81:1;82:3; 83:16,19,20
quit (2) 28:4;36:8	rec (1) 41:24	relate (1) 12:20	reserve (2) 66:2,4	rights (1) 11:19
quite (4) 3:12;17:1;37:21; 72:6	receive (1) 11:12	related (2) 25:7;50:9	residency (1) 19:8	Ring (1) 69:16
quyana (1) 78:8	received (3) 6:22;11:13;12:8	relates (3) 54:9;55:23;56:4	resident (3) 24:3;37:23;78:18	Rio (1) 21:6
R	recent (4) 10:13;19:20;60:1; 67:3	relative (1) 22:20	residents (1) 58:4	rip (2) 25:20,22
raiding (1) 20:16	recently (3) 37:22;46:7;47:2	release (2) 13:17;55:25	resource (14) 26:17;32:3;39:5; 47:7;48:1,1;49:22; 55:8;61:15;69:23; 72:14;73:3;75:23; 80:13	ripping (2) 26:11;30:15
rainbow (3) 18:8,11;20:8	reclaiming (1) 66:1	released (1) 12:13	resources (11) 5:21;10:25;37:11; 38:22;45:17;47:25; 49:8;64:21;84:18,19; 85:25	risk (8) 24:18;47:7;49:23; 61:10,19;69:6;71:10; 83:14
raining (1) 28:9	reclamation (5) 11:18;39:14;43:13; 46:14;50:21	releasing (1) 28:13	respect (2) 14:22;74:24	risk (8) 24:18;47:7;49:23; 61:10,19;69:6;71:10; 83:14
raise (1) 8:9	recognize (1) 59:19	relied (1) 44:4	respectfully (1) 8:14	risks (2) 24:21;69:2
raised (5) 37:12,13;57:24; 85:10,11	recommend (1) 46:20	rely (1) 43:16	responsibility (2) 10:20;21:10	river (23) 17:2,13,14,14; 18:22;19:2;20:3,6,13, 17,19,21;25:19,23,24; 30:24;31:7;41:8,9; 57:17;63:16;73:24,25
raises (1) 59:12	recommended (1) 39:16	remain (1) 34:1	responsible (7) 3:24;15:12,15,18; 16:13;24:22;59:5	Rivers (5) 10:22;17:14,16; 27:12;46:9
raising (1) 29:2	record (10) 4:19;8:1;32:8; 42:21;54:16;55:2; 65:8;70:25;73:10,14	remains (1) 75:4	restate (1) 73:10	road (1) 18:4
RALPH (2) 65:8,9	recording (1) 7:13	remarks (3) 13:5;77:3,5	restaurants (1) 48:6	roads (1) 17:16
ran (1) 19:3	referred (2) 10:25;29:18	remember (4) 36:21;55:15;57:23; 61:21	result (1) 81:12	rock (2) 75:4,6
range (1) 12:10	refining (1) 12:24	remind (1) 35:15	retired (3) 16:24;37:21;40:20	Rocky (1) 75:6
rate (2) 18:20;19:18	regard (1) 17:5	reminder (1) 47:10	return (1) 34:11	rolled (1) 63:9
rather (4) 19:3;45:23;46:2; 70:20	regarding (2) 11:14;45:2	removed (1) 67:4	review (10) 10:20;11:5,5;12:2; 16:16,18;17:6;24:21; 39:19;50:12	room (6) 5:2;6:11,18;40:23; 52:16;83:21
raw (3) 41:17,19,21	region (17) 31:23,25;32:7; 33:20;34:1;42:25; 43:9;44:4,25;45:14;	renewable (8) 45:17;49:22;67:21, 21;69:23;72:14; 75:22;85:24	revising (1) 53:6	route (2)
reach (3) 36:23;67:25;81:23	regard (1) 17:5	renewal (1) 46:4	revisions (1) 11:22	
reached (1) 67:1	regarding (2) 11:14;45:2	replaced (1) 60:4	rhyme (1)	
read (3) 53:5,9;72:23	regard (1) 17:5	report (3) 12:5;46:16;51:19		
reading (1) 72:5	regarding (2) 11:14;45:2	reporter (9) 4:15,22;6:12,15; 9:13,17;70:13;71:1; 78:15		
real (2) 28:7;37:20	region (17) 31:23,25;32:7; 33:20;34:1;42:25; 43:9;44:4,25;45:14;	reports (1) 73:16		
realistic (2) 30:19;51:1				

<p>18:23,24 routes (3) 5:17,18;17:9 ruin (2) 82:16;83:8 ruined (1) 41:11 ruled (1) 85:15 run (9) 16:6;22:1;23:18; 27:11;32:8;38:3; 49:17;55:8;82:19 running (2) 19:1;36:6 runs (3) 16:19;36:1,4 runway (1) 27:9 rushed (2) 46:16;81:12 RUSSELL (10) 16:23,24;25:5,6; 36:2;37:9,10;42:5; 73:11,12 R-U-S-S-E-L-L (2) 16:24;37:10</p>	<p>81:9,9;84:1,1 S-A-R-A-H (2) 81:9;84:2 save (1) 68:15 saw (3) 30:5,25;56:9 saying (7) 26:18;29:23;41:25; 50:24;51:2;69:23; 77:17 scale (4) 71:8,8;83:16,21 scare (3) 29:6;83:6,7 scenario (3) 45:23;50:19;51:16 scenarios (3) 52:3;62:18;81:14 scholarship (1) 59:13 scholastic (1) 59:13 school (6) 3:18;4:11;10:4; 59:10;63:19;71:21 school/high (1) 71:21 schoolteacher (1) 63:15 science (3) 45:2;60:20,21 scientific (3) 47:18;48:12;60:24 scientist (1) 38:20 scientists (3) 42:3;49:11;50:15 scope (2) 11:9;53:13 scoping (4) 11:13,25;12:1,5 script (1) 77:9 Sea (2) 15:2;44:10 search (1) 20:24 season (2) 32:9;47:20 seasons (1) 84:14 seated (1) 3:4 Seattle (4) 14:24;40:8;54:5; 79:6 Second (7) 6:2;12:7,21;19:8; 71:23;73:8,8 Secondly (1) 66:16 Section (5)</p>	<p>10:21,22,23,25; 57:4 secure (1) 64:5 security (3) 55:7;75:22,22 seem (2) 26:10;85:25 seems (5) 25:24;27:20;52:9; 81:12,12 seismic (4) 29:16;39:12;46:12; 81:17 seismicity (1) 50:18 seismology (1) 76:6 select (2) 38:1;69:2 selected (1) 34:20 sell (1) 48:6 selling (1) 56:6 Senate (1) 54:7 Senator (1) 46:19 senators (1) 54:22 seniors (1) 59:10 sense (1) 72:15 sensitive (1) 53:17 sentence (1) 16:6 series (1) 64:19 serious (6) 21:19;22:15,21,21; 23:17;62:18 seriously (1) 32:18 serves (1) 12:18 Service (1) 60:18 set (3) 13:14;37:22;85:2 settlement (1) 55:20 seven (3) 19:10;29:2;71:24 seven- (1) 22:10 several (2) 6:2;79:16 severe (1) 46:7</p>	<p>shaft (1) 74:2 Shane (1) 4:6 Shankle (2) 62:6,6 share (2) 13:5;36:14 shareholders (1) 50:22 sharing (1) 75:25 Sharon (2) 74:23,23 sharp (1) 59:18 sheet (2) 6:18;57:14 sheets (1) 68:12 ship (1) 54:4 Shivani (2) 71:19,19 S-H-I-V-A-N-I (1) 71:20 shop (1) 56:6 shore (1) 23:15 short (9) 3:12;10:7;26:23; 45:20;46:18;61:15; 63:11;74:2;82:2 shorted (1) 37:17 shortly (1) 17:18 short-sighted (1) 46:1 short-term (2) 33:18;61:13 Shoulder (1) 22:13 show (4) 8:5;22:18;62:4; 74:4 showing (1) 68:5 shown (1) 51:23 shut (1) 17:23 shy (1) 79:3 Siberian (1) 85:16 side (8) 8:24;17:15;20:21; 36:16,17;65:13; 66:21;85:8 sides (2) 17:16;80:7</p>	<p>sign (1) 7:16 signed (4) 7:20;28:24;69:11; 70:4 significant (1) 74:13 sign-in (1) 7:22 similar (1) 66:6 simple (2) 20:24;21:19 Sincerely (1) 86:3 single (3) 52:25;58:1;79:21 sit (1) 43:15 site (17) 20:20;26:12,16,19; 29:5;31:19;33:10; 43:14;51:25;74:7,9, 16;75:5;76:10;81:15, 21;85:8 sites (2) 37:22;46:16 Sitting (2) 4:2;22:19 six (1) 47:23 size (4) 27:25;30:19;53:11; 82:2 skiff (2) 21:25;74:3 skiffs (1) 22:1 skipped (2) 64:12;68:24 small (8) 26:16,19;27:10; 30:25;45:22,24; 59:20;71:8 smaller (3) 78:21;79:24;80:17 smartest (2) 42:3,3 snow (2) 27:10,11 Snug (1) 85:10 social (1) 71:20 socioeconomic (1) 46:1 sockeye (10) 20:22;25:16,17; 38:3,16,18,21,22,22; 40:14 soil (1) 82:13 sold (1)</p>
S				
<p>sac (1) 17:25 sacrificing (1) 26:10 safe (3) 10:5;46:24;58:7 safest (1) 42:9 sailboat (1) 47:21 sailboats (1) 54:4 salmon (74) 14:7,7;16:6,19; 18:5,7,9,12,13;20:15, 22;22:4,6;24:6,25; 25:16,17,21,23;26:7, 8;29:25;30:3,5,7,9,13; 31:24;32:1;36:7,7; 38:3,6,8,16,21,21,23; 40:4,5,8,14;41:17,20; 42:2;43:16;44:4,11, 15,16;45:13,17;47:7; 48:2,3,3,6,7,8,10,16, 20;49:4,6,8,17,21; 57:17,20;69:5;72:14; 73:20;83:13;84:3 same (7) 32:17;44:6,15;58:3; 79:15,25;83:9 Sanctuary (1) 20:3 Sarah (4)</p>				

47:2 solicit (2) 12:19,22 solve (2) 54:18;67:1 Somebody (2) 65:6;79:19 sometime (1) 76:25 Sometimes (3) 22:12;36:22;80:18 somewhat (1) 10:13 somewhere (2) 19:2;65:6 son (1) 13:25 Sonny (1) 41:5 soon (2) 78:5;84:18 sorry (3) 38:14;63:8;72:7 sort (3) 6:25;64:20;71:8 sorts (1) 78:24 sound (1) 85:6 sounds (3) 74:24;76:24;78:5 source (2) 33:15;63:24 sources (1) 7:7 South (2) 21:8;44:2 Southcentral (1) 68:21 Southeast (1) 38:11 southwest (6) 23:12;33:2,22; 34:19;50:11;68:20 span (3) 58:3;61:15;69:22 spawn (6) 17:12,19;18:8; 25:21;30:8;44:16 spawning (14) 17:18;18:11,12,13, 23:20;23:25;21; 29:25;30:3,5,9,13; 67:2,13 speak (11) 6:12;14:21,23;35:2; 40:19;65:10;70:13; 77:14,14,15;79:20 speaker (3) 13:5;14:17;47:13 speakers (1) 84:12 speaking (6)	64:13;65:20;68:10, 14;71:25;73:21 special (1) 31:25 species (1) 17:11 specific (2) 7:4;43:10 spell (2) 32:24;70:25 spelled (3) 54:1;63:8;65:9 spelling (2) 7:25;57:15 spells (1) 85:19 spend (3) 48:4;68:13,18 spending (1) 66:10 spent (6) 14:24;16:25;22:12; 54:6;65:21;68:15 spew (1) 56:3 spill (4) 15:4;31:3;34:9; 55:19 spin-off (1) 74:8 spoke (2) 67:20;81:25 spoken (1) 39:9 spokesman (1) 55:18 sportfishing (4) 57:16;58:9,25; 59:16 spread (2) 17:25;18:2 spreading (1) 40:12 spring (2) 26:2;65:19 stability (2) 11:17;45:1 stage (3) 17:20,21;18:6 stakeholders (3) 52:2,18;78:1 stance (1) 54:23 stand (3) 47:13,17;74:25 Standing (1) 24:15 standpoint (2) 18:25;19:1 start (8) 7:24;28:3,12;49:18, 20;56:6;66:1;80:8 started (9)	3:3;17:2;22:8;37:4, 15,20;44:12;66:2; 77:12 starting (1) 56:3 starts (1) 28:10 State (10) 16:12;20:13;21:14; 39:1,3,6,17;54:6,21; 70:24 stated (1) 73:3 Statement (20) 3:11,13;5:7;11:7; 12:23;33:17;34:15; 42:23;51:17;53:4; 58:11;59:20;60:5; 62:13,24;72:2,18,20; 73:5;82:3 States (6) 10:10,12,24;21:3, 14;68:5 statewide (1) 57:18 stating (1) 7:25 station (1) 28:16 stationed (1) 22:25 stay (5) 30:13;33:21;49:19; 77:6;78:9 step (1) 12:7 steps (1) 11:24 still (13) 14:8,9;27:12;37:17; 45:17,18;70:16,18,18; 74:12,13;75:10;84:5 stir (1) 86:1 stock (4) 47:2;49:13;67:2,13 stop (8) 24:8;31:3,4;37:18; 46:7;59:6;67:13; 78:19 stopped (2) 31:1;40:13 stories (3) 47:21,23,23 storm (3) 15:11;22:14;58:23 story (1) 75:7 straight (1) 19:4 stream (3) 18:4,23;30:15 streams (20)	17:12;18:7,8,16,19; 29:24,25;30:2,3,5,14; 36:6,12;40:4,5;44:16; 49:9,21;58:16;82:19 strength (1) 49:7 stretch (1) 9:12 Strips (1) 26:6 strive (1) 12:16 strong (5) 9:4;49:19;80:22,22; 84:23 stronghold (1) 47:8 strongly (1) 21:16 structures (2) 11:18;19:6 students (1) 72:5 studied (3) 30:20;75:9;82:10 studies (9) 29:18;31:12;47:19, 19;65:20,22;66:19; 67:8;71:20 study (9) 30:17;40:1;48:12; 50:17;51:9,10;58:20; 59:17;65:11 studying (3) 49:12;66:24;72:1 stuff (6) 48:14;78:4,6;80:5, 6;83:7 stuffed (1) 48:17 Stuyahok (4) 31:2,3,4,6 style (1) 56:18 subject (1) 35:12 submit (10) 4:25;5:22;6:2,7,8, 11,19;8:18;48:24; 51:6 submitted (3) 6:25;11:2;50:8 submitting (1) 5:2 subsist (1) 45:19 subsistence (15) 24:6;26:1;30:24; 32:11;34:3;40:24; 42:20;44:5,7;57:20; 71:6;78:23;82:24; 83:4;84:6 subsisting (1)	45:4 substantial (2) 53:8;69:6 successful (2) 40:14;63:23 sucking (2) 57:8,9 suffer (1) 58:12 suffering (1) 85:23 sufficient (1) 53:10 suggest (4) 18:21;23:18;39:11; 79:9 suggestion (1) 76:24 suggestions (3) 4:24;7:7,11 Sugpiat (1) 84:10 Sugstun (1) 84:12 Suicide (1) 55:17 sulfites (2) 28:6,11 Sullivan (1) 46:19 sulphur (1) 28:13 summary (2) 72:6;75:11 summer (3) 59:5,7;63:16 Superfund (2) 46:16;75:5 supply (2) 38:16;40:10 support (7) 32:15;34:5;45:17; 48:24,25;59:21;71:7 supported (1) 34:3 supporting (1) 3:9 suppose (1) 55:23 supposed (1) 37:16 sure (9) 4:11;6:24;8:5,15, 21;15:23;46:23; 51:15;69:24 surface (7) 15:4;22:2,3,4,5; 26:24,25 surrounding (1) 81:21 survive (1) 34:5 sustainable (6)
---	--	---	---	--

<p>33:22;46:4;49:16, 24:63;23;73:3 sustained (1) 67:17 swimming (1) 41:24 synopsis (1) 63:11 system (2) 39:16;55:24 systems (1) 43:17</p>	<p>63:19 team (7) 3:24;4:9,14;11:6, 21;12:4;64:23 technical (1) 39:17 Teck (1) 21:5 tectonic (1) 74:5 telling (3) 15:14,17;42:12 temporarily (1) 78:12 ten (3) 31:8;48:4;75:8 tent (1) 26:21 Teresa (2) 60:13,13 terminal (2) 18:24;23:13 terms (3) 5:10,18;77:4 territory (1) 55:12 tested (1) 46:5 testified (2) 8:8;70:4 testify (21) 3:20;7:17;8:6,8,10, 11,16;33:1,3;64:14; 65:5;70:5,15,20,22; 73:8;74:21;77:1; 78:13,14;80:11 testifying (8) 4:25;6:4;7:21;8:7, 23;32:25;65:1;70:17 testimony (11) 4:23;6:14,22;8:3, 13;9:5,14;23:23; 26:24;65:2,15 testing (1) 39:15 tethered (1) 22:1 thanking (1) 10:2 Thanks (6) 31:13;43:20;60:9; 70:1;81:1,2 theirs (1) 45:16 Therefore (1) 69:1 therein (1) 85:19 thick (1) 23:3 thinking (1) 72:20 third-generation (1)</p>	<p>65:17 THOMPSON (4) 45:9,10;74:23,24 T-H-O-M-P-S-O-N (1) 45:10 thorough (3) 60:4;61:24;63:13 though (4) 14:5;65:25;67:16; 71:5 thought (9) 14:5;16:15;29:13; 35:12;37:17;64:12; 66:20;74:14;80:23 thousands (5) 20:22;35:7;38:4,4; 61:16 threat (1) 38:8 threaten (1) 63:25 threatened (2) 38:24;40:6 Threatening (2) 44:14,15 three (8) 8:4;10:14;17:9; 22:12;51:12;54:20; 56:11;77:11 thriving (1) 16:19 throats (1) 48:18 throughout (3) 16:4;39:6;82:23 till (1) 22:23 timeline (1) 50:20 timely (1) 12:17 timer (1) 8:12 times (10) 6:8;19:9,10,23; 22:22;23:22;46:9; 66:19;67:17;80:22 timing (1) 78:6 Tinto (1) 21:6 tiny (1) 76:15 tip (1) 33:12 today (25) 3:23;4:18;6:4,13, 16;7:16;8:4,19;9:5, 12,24;10:1,6,20; 11:21;12:18;33:1; 35:2,8,15,19;36:3,14; 77:17;80:11 toddler (1)</p>	<p>10:15 together (6) 5:9;36:23;49:9,16; 59:11;79:11 told (7) 28:21;29:5;56:15, 24;60:25;67:3;73:23 tonight (3) 64:14;69:24;70:12 took (6) 29:1;36:24;37:19; 41:19;66:15;84:11 tool (1) 11:9 top (4) 31:6;36:3;68:24; 69:17 topping (1) 27:7 total (2) 36:8;67:12 totally (3) 58:10;60:9,23 touch (2) 26:24,25 towns (1) 76:19 toxic (2) 16:12;51:3 tracer (2) 15:23,24 track (1) 80:9 trade (1) 59:4 tradition (1) 58:1 traditional (2) 43:19;50:11 traditions (3) 44:7,19;45:5 traffic (2) 18:17;19:2 Trail (1) 57:15 transcript (1) 9:19 translate (1) 52:6 translating (1) 7:14 transparent (1) 77:24 transport (1) 18:21 transportation (1) 5:18 trapper (1) 40:25 travel (1) 79:20 traveled (1) 33:1</p>	<p>traveling (3) 27:16,18;79:17 treatment (5) 39:16;44:22;46:5; 62:16;69:5 tribal (5) 4:8;9:23;33:7; 52:16,25 tried (2) 29:4;58:4 trolls (1) 22:2 trout (3) 18:8,11;20:8 true (1) 49:7 trust (2) 43:5;46:14 trusted (1) 46:6 try (11) 5:24;6:12;8:3;22:3; 23:6;48:6;49:2;55:1; 74:1;82:22;85:2 trying (5) 21:9;22:14;51:6; 65:22;68:15 tundra (3) 16:11;82:12,13 turn (6) 4:23;6:15;9:1,13, 15;47:11 turns (1) 20:25 TV (1) 68:4 twice (1) 64:12 twist (1) 55:13 two (12) 5:17;12:18;14:24, 25;22:12;42:14; 45:12;65:5,14;67:2; 70:21;76:24 type (4) 29:6;32:6;58:17; 74:5 types (3) 17:16;26:14;85:23</p>
T				U
<p>table (6) 3:23;4:2,14;6:6; 7:22;46:25 tagged (2) 20:8,13 tags (3) 20:10,12,12 tailing (5) 15:8;24:20;39:8; 72:24,25 tailings (16) 20:25;21:12,13,17; 34:15;39:13;43:2; 45:23;50:18;51:3,13, 22;66:5;72:24;73:2; 76:12 Talarik (6) 19:2;22:25;23:14; 31:19;35:9;36:4 talk (14) 10:19;14:24;29:9; 35:19;55:3,3,5,6,7,10; 64:3,20,24;77:20 talked (2) 35:3,11 talking (9) 7:23;26:9;37:13; 54:24;57:2,3;58:8; 80:10;85:6 talks (1) 5:20 tapping (1) 39:5 task (1) 72:6 taste (2) 41:6,10 tasting (1) 41:7 Taught (2) 25:9;44:7 tax (3) 41:17,19,22 teach (3) 71:20;82:24;84:13 teacher (1) 71:25 teaching (1)</p>				

<p>37:16 unconvinced (1) 62:1 undeniably (1) 44:22 under (4) 10:21;11:3,10; 26:20 unexpected (1) 46:10 unfortunately (2) 37:13;84:21 UNIDENTIFIED (2) 14:17;47:13 unique (2) 14:25;61:11 uniqueness (1) 49:8 United (6) 10:10,12,24;21:3, 14:68;5 University (4) 20:14;21:24;29:9; 49:11 unless (1) 27:14 unlikely (2) 45:22;46:9 Unpredictable (1) 85:15 unsafe (1) 24:19 unscientific (1) 60:9 unsustainable (1) 34:2 up (104) 6:14,16,24;7:16,19, 20:8;5,10,14;13:7,14; 14:15,19,23;16:1,11; 17:1;18:4;20:9,25; 22:6,9,12;23:3,12,14; 25:10,17,20,21,22; 26:1,3,5,6,7,10,11; 27:2,9;28:10,24;30:2, 8,10,11,15;31:6,18, 19,20;34:13;35:5,8, 21;36:22;37:21; 38:11;41:6,8,11,13; 44:1,23;49:10,16,20; 53:8;54:25;55:14; 56:6,6,19,19,21;57:2; 62:5;65:7,25;66:12, 17,17;67:9;69:11; 70:4;71:4;73:25; 74:25;75:2,6,21;76:8; 78:13;79:1,6,15;80:3, 12;81:5;83:1,11; 84:21;86:1 updated (1) 78:4 upon (1) 66:11</p>	<p>upper (3) 23:14;35:9;36:4 ups (1) 67:16 up-to-date (1) 50:17 urge (3) 24:22;38:1;69:2 use (10) 3:12,16;5:22;6:10; 8:12;10:7;29:24; 36:18;59:8;85:2 used (4) 7:9;20:8;21:23; 30:23 useful (1) 7:3 user (1) 57:20 users (3) 24:6;32:11;40:24 using (1) 7:19 usual (1) 41:10 usually (1) 54:25 Utah (1) 20:13</p>	<p>83:19 victim (1) 84:25 view (1) 17:6 Village (9) 3:16;10:7;19:25; 24:4;27:13,17;33:7; 35:21;73:21 villagers (1) 20:9 villages (7) 19:16;22:17;27:5, 16;76:19;80:18;83:1 virtually (1) 58:11 visit (1) 10:14 visited (1) 79:12 vital (1) 33:15 voice (1) 84:25 voices (3) 34:20;80:22,23 volcanic (3) 69:19,20;72:25 volcano (2) 19:9;42:6 volcanoes (2) 42:6;85:19 volume (1) 38:13</p>	<p>55:5;57:9;69:5;73:2; 82:15;84:14 waters (11) 10:24;17:6,17; 21:14;32:4;33:5; 34:16;36:25;43:3; 44:11;50:10 watershed (6) 24:19;29:18;46:21; 81:20;82:16,19 waterways (4) 11:1;17:10;18:14; 51:15 waves (1) 22:10 way (25) 15:24;20:7;23:15; 26:23;27:17,24; 30:13;33:11,12;34:3, 20;38:12;42:25; 43:19;50:11;51:8; 54:14;55:17;56:9; 69:3;77:20;82:21,24, 24;84:23 ways (4) 4:25;6:2;9:18;26:6 wealth (1) 44:25 weasel (1) 21:9 weather (2) 46:8;85:15 website (10) 5:22,24;6:5,7,11, 23;7:10,15;53:1;78:4 weddings (1) 59:10 week (6) 18:14;53:8;67:20; 72:2,6;74:12 weeks (3) 16:9;25:8;51:14 weight (2) 61:10;82:17 welcome (3) 25:15;59:6;78:9 well-known (1) 20:2 weren't (2) 32:2;64:18 west (1) 73:22 western (4) 15:3;23:13;28:5; 52:13 wetlands (1) 30:1 what's (12) 5:9;17:20;42:14; 52:21,22;61:10;64:5; 65:22;66:6;68:9; 80:15,23 whatsoever (1)</p>	<p>11:19 whole (11) 28:2;31:25;42:20; 49:10;54:12;68:11; 71:5;82:7;83:4,8,22 whose (4) 51:24;61:1,21; 85:17 wide (1) 35:6 wife (3) 28:21;69:14;83:13 wild (2) 25:17;47:7 wildlife (5) 30:21;33:5,8;43:17; 83:6 WILSON (5) 31:16,17;41:5; 78:17,18 W-I-L-S-O-N (1) 31:17 wind (3) 19:21;22:8;27:8 winds (2) 23:10;85:17 windy (1) 27:6 winter (4) 22:23;46:8;59:6,7 wintertime (1) 40:25 wiped (2) 19:17;44:17 wise (1) 85:25 wish (2) 6:15;23:23 within (5) 11:1,8,14;22:7; 24:17 without (4) 38:7;43:8;58:12; 83:21 wolverine (1) 31:21 wolves (2) 31:21;35:8 women (2) 56:20;84:15 wondered (1) 66:9 woodwork (1) 80:19 word (2) 3:12;80:8 words (2) 4:22;13:9 work (11) 3:8;15:3;17:9,15; 19:7;21:23;37:10; 46:6;52:16;60:19; 80:6</p>
	V			
	<p>Valdez (3) 55:15,17;73:17 valid (1) 58:5 valuable (1) 52:10 value (4) 59:14;61:20,20; 79:25 values (6) 60:22;61:1,1,21,21; 72:15 various (3) 49:9;71:23;78:22 vast (1) 44:21 Vavrik (1) 4:15 vehemence (1) 56:3 vent (1) 55:25 venting (1) 57:5 venue (3) 3:15;10:3;77:19 versus (1) 69:23 vessel (2) 36:18,25 viable (1)</p>	W		
		<p>wait (1) 22:14 waiting (1) 77:1 waking (2) 56:19,19 wants (3) 8:7;63:6;70:15 Washington (6) 15:3;21:24;40:6; 49:11;54:6;60:7 waste (3) 47:4,5;51:3 wastewater (3) 24:17,20;82:19 watched (2) 38:9;76:12 watching (1) 66:25 Water (28) 10:22;15:4;17:19; 19:15;21:18;22:3,15, 20;24:19;30:16; 39:16,18;41:7,9; 43:17;44:13,13,23; 45:19;46:5,8;50:6;</p>		

<p>working (6) 17:1;29:2;37:20; 46:7;55:23;56:2</p> <p>works (1) 19:12</p> <p>world (15) 25:16,18,24;31:25; 32:2;38:23;40:14; 41:7;42:4,9;44:12; 58:9,14;61:12;85:22</p> <p>world-renown (1) 58:10</p> <p>world's (2) 38:15,18</p> <p>worldwide (2) 21:1;48:3</p> <p>worried (1) 33:10</p> <p>worse (1) 29:6</p> <p>worst (2) 15:15;45:23</p> <p>worth (5) 61:19,19;69:21; 71:10;77:7</p> <p>wrap (1) 8:14</p> <p>write (1) 12:8</p> <p>written (4) 6:23;48:23;81:12; 85:12</p> <p>wrong (5) 14:6;15:10,11; 63:19;73:15</p>	<p>young (3) 35:3,4;59:12</p> <p>younger (2) 44:7;63:18</p> <p>youth (1) 56:23</p> <p>Yup'ik (2) 7:13;52:7</p> <p style="text-align: center;">Z</p> <p>ZIMIN (2) 65:8,9</p> <p>Z-I-M-I-N (1) 65:9</p> <p style="text-align: center;">1</p> <p>1 (1) 13:7</p> <p>1,100 (1) 30:1</p> <p>1,400 (1) 72:22</p> <p>1,400-page (1) 72:4</p> <p>1,500 (1) 53:5</p> <p>1,600-page (1) 53:4</p> <p>1.4 (1) 55:21</p> <p>10 (6) 10:22,25;16:10; 22:7,9;31:15</p> <p>100 (4) 26:5;79:12,14;84:6</p> <p>100,000 (1) 25:25</p> <p>100-some (1) 69:18</p> <p>11 (2) 16:10;32:21</p> <p>12 (3) 19:12;34:24,24</p> <p>121 (2) 20:25;21:2</p> <p>13 (2) 34:25;54:4</p> <p>136 (1) 44:2</p> <p>14 (2) 37:8;78:25</p> <p>15 (2) 22:7,9</p> <p>150 (1) 84:12</p> <p>159-acre (1) 85:7</p> <p>15-minute (2) 64:18,24</p> <p>16 (2) 36:23;42:17</p>	<p>168 (1) 67:1</p> <p>16th (1) 23:7</p> <p>17 (3) 19:13;43:22;60:17</p> <p>18 (1) 45:8</p> <p>19 (2) 29:24;47:12</p> <p>1908 (2) 19:11,13</p> <p>1952 (1) 54:3</p> <p>1964 (1) 73:13</p> <p>1969 (2) 21:23;73:12</p> <p>1970 (1) 21:23</p> <p>1974 (1) 54:2</p> <p>1975 (1) 49:4</p> <p>1978 (1) 10:15</p> <p>1979 (2) 37:15;40:21</p> <p>1980 (1) 31:22</p> <p>1990s (1) 37:18</p> <p style="text-align: center;">2</p> <p>2 (1) 14:14</p> <p>20 (7) 15:4;31:5;38:2; 41:13;47:15;61:13; 72:13</p> <p>20,000 (2) 15:5,6</p> <p>2000s (1) 15:22</p> <p>2005 (1) 37:21</p> <p>2017 (1) 11:4</p> <p>20-something (1) 7:17</p> <p>20th (1) 12:14</p> <p>20-year (3) 43:6;50:25;69:22</p> <p>21 (2) 48:22;63:15</p> <p>22 (2) 36:7;50:2</p> <p>225-foot (1) 54:3</p> <p>23 (1) 53:24</p>	<p>24 (2) 17:21;57:12</p> <p>24/7/365 (1) 16:11</p> <p>25 (10) 25:21;26:11;30:9, 10;31:5;60:11,12; 62:4,4,5</p> <p>26 (3) 17:11;38:15;60:12</p> <p>27 (1) 62:5</p> <p>270 (4) 16:16,18;27:3; 30:18</p> <p>28 (3) 63:5,6,6</p> <p>29 (5) 65:6,6,6,21;66:10</p> <p style="text-align: center;">3</p> <p>3 (2) 14:14;41:17</p> <p>3,000 (1) 50:13</p> <p>3,560 (1) 30:3</p> <p>3.7 (1) 41:19</p> <p>30 (12) 21:3;35:6;54:6,7; 57:19;68:4,24;69:10, 11,21;70:8,9</p> <p>300 (1) 61:15</p> <p>3-000-plus (1) 24:15</p> <p>30th (1) 74:11</p> <p>31 (2) 70:7,8</p> <p>32-foot (1) 25:11</p> <p>340 (1) 73:22</p> <p>35 (2) 15:2;53:5</p> <p>36 (1) 17:21</p> <p style="text-align: center;">4</p> <p>4 (4) 14:15,16,16;20:24</p> <p>4.1 (1) 74:11</p> <p>40 (1) 53:9</p> <p>400 (1) 35:21</p> <p>400,000 (1) 26:22</p>	<p>404 (4) 10:21,23;39:20; 50:5</p> <p>404b1 (1) 39:18</p> <p>404c (1) 29:23</p> <p>40-plus (1) 49:12</p> <p>41 (2) 36:8;40:20</p> <p>48 (2) 60:17;80:12</p> <p style="text-align: center;">5</p> <p>5 (1) 14:20</p> <p>50 (5) 19:8,11;38:3;56:1, 18</p> <p>500 (1) 37:17</p> <p>50-knot (1) 27:7</p> <p>51 (1) 38:17</p> <p>59 (1) 13:23</p> <p style="text-align: center;">6</p> <p>6 (2) 16:22;29:17</p> <p>6,000 (2) 38:6,7</p> <p>6.5 (1) 38:12</p> <p>6:00 (1) 76:25</p> <p>6:57 (1) 86:4</p> <p>60 (3) 20:25;21:2;22:22</p> <p>65.4 (1) 36:9</p> <p style="text-align: center;">7</p> <p>7 (1) 23:25</p> <p>7.1 (2) 74:10;76:7</p> <p>7:00 (1) 70:12</p> <p>78-year (1) 51:1</p> <p style="text-align: center;">8</p> <p>8 (1) 24:11</p> <p>8.0 (1)</p>
<p style="text-align: center;">Y</p> <p>Yale (1) 29:9</p> <p>year (15) 11:25;18:10;21:3; 23:8;26:1,8;36:7; 38:19;41:18;54:24; 56:16;59:3;71:23; 75:23;84:4</p> <p>years (56) 10:14;13:23;15:2,4; 17:1,3;19:8,11,12,13; 20:25;21:2;28:14; 29:2,8;30:24;36:10; 37:15;38:2,3,5,6,7; 40:20;41:13;44:9; 47:20;48:4;49:12; 51:12;54:6,8,20; 56:11,18;57:19; 60:17;61:14,14,15,16; 63:15;65:21;66:10, 22,25;68:4;69:18,21; 71:24;72:13;73:20; 75:3,8;79:1;84:6</p> <p>yolk (1) 17:25</p>				

43:14 8.87 (2) 30:2,4 80 (1) 61:14 80-page (1) 72:5 81.1 (1) 30:2				
9				
9 (1) 25:4 90 (3) 26:23;53:10,18 900 (1) 55:20 90-day (5) 53:2,7;72:4;75:13; 82:1 93 (1) 35:6				