

3225 MAIN STREET • P.O. BOX 226
BARNSTABLE, MASSACHUSETTS 02630



CAPE COD
COMMISSION

(508) 362-3828 • Fax (508) 362-3136 • www.capecodcommission.org

Minutes

Meeting

Cape Cod Commission

First District Courthouse • Assembly of Delegates Chambers
3195 Main Street, Barnstable, MA 02630

September 14, 2017

The meeting was convened at 3:00 p.m., and the Roll Call was recorded as follows:

Town	Member	Present
Barnstable	Royden Richardson	✓
Bourne	Richard Conron	✓
Brewster	Elizabeth Taylor	✓
Chatham	Michael Skelley	✓
Dennis	Richard Roy	✓
Eastham	Joy Brookshire	✓
Falmouth	Charles McCaffrey	Absent
Harwich	Jacqueline Etsten	✓
Mashpee	Ernest Virgilio	✓
Orleans	Len Short	✓
Provincetown	Vacant	Vacant
Sandwich	Harold Mitchell	✓
Truro	Kevin Grunwald	✓
Wellfleet	Roger Putnam	✓
Yarmouth	John McCormack, Jr.	✓ (<i>left at 4:45 p.m.</i>)
County Commissioner	Mary Pat Flynn	Absent
Minority Representative	John Harris	✓
Native American Rep.	David Weeden	✓
Governor's Appointee	Michael Maxim	✓

The meeting of the Cape Cod Commission was called to order on Thursday, September 14, 2017 at 3:00 p.m. in the First District Courthouse, Assembly of Delegates Chambers, 3195 Main Street, Barnstable, MA. Roll was called and a quorum established.

■ **SUMMARY OF ACTIONS TAKEN/VOTES:**

Public Hearing: Sagamore Line Reinforcement Project, Western Segment Phase-3

The Sagamore Line Reinforcement Project's Western Segment Phase-3 project proposes installation of approximately 2.2 miles of gas distribution pipeline along, in and under Service Road beginning at Chase Road in East Sandwich and extending easterly into West Barnstable. Following presentations, testimony and discussion a motion was moved and seconded to close the public hearing. With 14 members voting the motion to close the public hearing passed with 13 votes in favor and one opposed (Brookshire). Following the close of the public hearing a motion to adopt the draft written DRI Exemption Decision and grant the requested DRI Exemption for the Sagamore Line Reinforcement Project's Western Segment Phase-3 was moved and seconded. With 14 members voting the motion passed with 12 votes in favor and two opposed (Richardson and Brookshire).

Public Hearing: Yarmouth Growth Incentive Zone

A request by the Town of Yarmouth to extend the term of its designated Route 28 Corridor Growth Incentive Zone (GIZ) for an additional four years to October 22, 2021 was before the Cape Cod Commission for consideration. Following presentations and discussion the Commission voted unanimously to close the public hearing. Following the close of the public hearing, the Commission voted unanimously to adopt the draft written Yarmouth Route 28 Corridor Growth Incentive Zone Extension Decision and grant the requested extension for an additional four years to October 22, 2021.

Public Hearing: Growth Incentive Zone Regulations Proposed Amendment

Commission staff presented the proposed amendment to Growth Incentive Zone Regulations, Chapter G of the Code of Cape Cod Commission Regulations that would allow a Growth Incentive Zone designation period to be extended one time by the Executive Director for a period of up to 180 days. Following the presentation and discussion a motion was moved and seconded to close the public hearing. With 14 members voting the motion passed with 13 votes in favor and one opposed. Following the close of the public hearing, the Commission voted unanimously to submit, as drafted, the proposed amendment to Section 11 "Duration" of the Growth Incentive Zone Regulations, Chapter G of the Code of Cape Cod Commission Regulations, to the Assembly of Delegates for adoption by County ordinance.

■ **TRANSCRIPT OF THE CAPE COD COMMISSION MEETING ATTACHED**

Attached is the transcript of the September 14, 2017 Cape Cod Commission Meeting prepared by Linda L. Wesson, Professional Court Reporter. The transcript includes:

- Public Hearing: Sagamore Line Reinforcement Project, Western Segment Phase-3
- Public Hearing: Yarmouth Growth Incentive Zone
- Public Hearing: Growth Incentive Zone Regulations Proposed Amendment
- Presentation on the Marine Mammal Act by Erin Burke of the Massachusetts Division of Marine Fisheries.

A motion was made to adjourn at 5:01 p.m. The motion was seconded and voted unanimously.

Respectfully submitted,

Elizabeth Taylor, Secretary

List of Documents Used/Presented at the September 14, 2017 Commission Meeting

- Handout material: September 14, 2017 Commission meeting agenda.
- Handout material: Sagamore Line Reinforcement Project, Western Segment Phase-3 draft DRI Exemption Decision.
- Material presented: PowerPoint slide presentation on the Sagamore Line Reinforcement Project, Western Segment Phase-3 by Colonial Gas Company dba National Grid.
- Handout material: Town of Yarmouth Route 28 Corridor Growth Incentive Zone Extension of Designation Period draft Decision.
- Handout material: Chapter G, Growth Incentive Zone Regulations draft proposed amendment.
- Material presented: PowerPoint slide presentation of the Marine Mammal Act by Erin Burke, Massachusetts Division of Marine Fisheries.

COMMONWEALTH OF MASSACHUSETTS

CAPE COD COMMISSION

PUBLIC HEARINGS:

Sagamore Line Reinforcement Project,
Western Segment Phase 3

Yarmouth Growth Incentive Zone Term Extension

Chapter G, Growth Incentive Zone Regulations
Proposed Amendment

HELD ON THURSDAY, SEPTEMBER 14, 2017

TRANSCRIPT prepared by Linda L. Wesson, Certified
Verbatim Reporter and Notary Public in and for the
Commonwealth of Massachusetts, at the First District
Courthouse, Assembly of Delegates Chambers, 3195 Main
Street, Barnstable, Massachusetts, commencing at
3:00 p.m.

* * * * *

CANAL COURT REPORTING
15 Lakewood Road
Sagamore Beach, MA 02562
(508) 888-4676

A P P E A R A N C E SCape Cod Commission Staff:

Barnstable, Royden Richardson
Bourne, Richard Conron
Brewster, Elizabeth Taylor
Chatham, Michael Skelley
Dennis, Richard Roy
Eastham, Joyce Brookshire
Harwich, Jacqueline Etsten
Mashpee, Charles McCaffrey
Orleans, Leonard Short
Sandwich, Harold Mitchell, Chair
Truro, Kevin Grunwald
Wellfleet, Roger Putnam
Yarmouth, John McCormack, Jr.
Minority Rep., John Harris
Native American Rep., David Weeden
Governor's Appointee, Michael Maxim
Mr. Paul Niedzwiecki, Executive Director
Ms. Kristy Senatori, Deputy Director
Mr. Jonathon Idman, Chief Regulatory Officer

I N D E X

	PAGE
Public Hearing: Sagamore Line Reinforcement Project, Western Segment Phase 3	8
Public Hearing: Yarmouth Growth Incentive Zone Term Extension	71
Public Hearing: Chapter G, Growth Incentive Zone Regulations Proposed Amendment	107
Marine Mammal Protection Act By Erin Burke	83
Executive Director's Report	114

CAPE COD COMMISSION MEETING

(Commenced at 3:00 p.m.)

1
2
3 CHAIR HAROLD MITCHELL: Today is
4 September 14, 2017, and we'll start with the roll
5 call.

6 MS. ELIZABETH TAYLOR: Barnstable,
7 Royden Richardson.

8 MR. ROYDEN RICHARDSON: Present.

9 MS. ELIZABETH TAYLOR: Bourne, Richard
10 Conron.

11 MR. RICHARD CONRON: Here.

12 MS. ELIZABETH TAYLOR: Brewster,
13 Elizabeth Taylor, present.

14 MS. ELIZABETH TAYLOR: Chatham, Michael
15 Skelley.

16 MR. MICHAEL SKELLEY: Here.

17 MS. ELIZABETH TAYLOR: Dennis, Richard
18 Roy.

19 MR. RICHARD ROY: Present.

20 MS. ELIZABETH TAYLOR: Eastham, Joy
21 Brookshire.

22 MS. JOY BROOKSHIRE: Here.

23 MS. ELIZABETH TAYLOR: Falmouth,
24 Charles McCaffrey.

1 MR. CHARLES MCCAFFREY: (Not present.)

2 MS. ELIZABETH TAYLOR: Harwich,

3 Jacqueline Etsten.

4 MS. JACQUELINE ETSTEN: Present.

5 MS. ELIZABETH TAYLOR: Mashpee, Ernest

6 Virgilio.

7 MS. ERNEST VIRGILIO: Here.

8 MS. ELIZABETH TAYLOR: Orleans, Len

9 Short.

10 MR. LEONARD SHORT: Here.

11 MS. ELIZABETH TAYLOR: Provincetown is

12 still vacant. Sandwich, Harold Mitchell.

13 CHAIR HAROLD MITCHELL: Here.

14 MS. ELIZABETH TAYLOR: Truro, Kevin

15 Grunwald.

16 MR. KEVIN GRUNWALD: Here.

17 MS. ELIZABETH TAYLOR: Wellfleet, Roger

18 Putnam.

19 MR. ROGER PUTNAM: Here.

20 MS. ELIZABETH TAYLOR: Yarmouth, John

21 McCormack, Jr.

22 VICE CHAIR JOHN MCCORMACK, JR.: Here.

23 MS. ELIZABETH TAYLOR: County

24 Commissioner, Mary Pat Flynn.

1 Commissioner FLYNN: (Not present.)

2 MS. ELIZABETH TAYLOR: Minority
3 Representative, John Harris.

4 MR. JOHN HARRIS: Here.

5 MS. ELIZABETH TAYLOR: Native American
6 Representative, David Weeden.

7 MR. DAVID WEEDEN: Here.

8 MS. ELIZABETH TAYLOR: Governor's
9 Appointee, Michael Maxim.

10 MR. MICHAEL MAXIM: Present.

11 MS. ELIZABETH TAYLOR: We have a
12 quorum.

13 CHAIR HAROLD MITCHELL: Thank you, very
14 much. At this time, I'd like to give anyone an
15 opportunity that would like to come up and come
16 to the podium and make a public comment. Seeing
17 none. I'll move forward.

18 We do have minutes that were on the
19 agenda for potential approval. Minutes for
20 August 3, 2017, that is going to be held until
21 the next meeting, so we will hold that at this
22 time.

23 Our Executive Director's report, we'll
24 hold that off to the end of the meeting at that

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

time also. We'll get right into the public
hearings.

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

PUBLIC HEARING:

Sagamore Line Reinforcement Project

Western Segment Phase 3

CHAIR HAROLD MITCHELL: We'll start off with the Public Hearing for the Sagamore Line Reinforcement Project. The Cape Cod Commission will conduct a Public Hearing and consider the Development of Regional Impact, DRI, Exemption application filed by the Colonial Gas Company, d/b/a National Grid, for Phase 3 of the Sagamore Line Reinforcement Project's Western Segment.

National Grid proposed installation of 2.2 miles of gas distribution pipe along, in, and under the Service Road beginning at Chase Road in East Sandwich and extending easterly into West Barnstable. The Commission will consider whether to adopt the draft written DRI Exemption decision and approve the request DRI Exemption for this project.

Anyone wishing to testify orally would be welcome to do so. Written comments may also be submitted at the -- for the hearing.

At this time, we'll start with the presentation by National Grid. I ask you to

1 introduce yourself.

2 MR. MICHAEL KOEHLER: Sure.

3 CHAIR HAROLD MITCHELL: And your
4 position. Thank you.

5 MR. MICHAEL KOEHLER: Thank you, Mr.
6 Chair. Good afternoon, Chair Mitchell,
7 Commission members, Commission staff, and members
8 of the public. For the record, my name is Mike
9 Koehler from the law firm of Keegan Werlin, and
10 I'm appearing on behalf of National Grid as the
11 applicant in this proceeding.

12 Various project team members are here
13 with us, and we look forward to answering any
14 questions that may arise during the course of the
15 discussion today about the company's application.

16 At the outset, I also want to thank the
17 Commission staff for their work in assimilating
18 the information from the record into the draft
19 decision that is before you today.

20 The company has prepared a brief
21 presentation regarding the project that will be
22 delivered by Mr. Ted Barton from Epsilon
23 Associates, who's the company's environmental
24 consultant for this project.

1 But before I pass the baton to Mr.
2 Barton, I want to highlight a few key points that
3 the company believes support the Commission
4 voting today to adopt the draft decision as its
5 final decision in this proceeding.

6 Foremost, as made clear by the findings
7 in the draft decision, the company has submitted
8 substantial record evidence supporting the fact
9 that given the limited impacts, the company's
10 project should be exempted from the Commission's
11 full DRI review process consistent with the
12 Commission standards and statutory mandates.

13 Second, we also want to be clear that
14 the alignment for the project is presented in the
15 company's application that's before you today is
16 fully consistent with the plans that were
17 approved by the Energy Facilities Siting Board
18 and MEPA in 2006.

19 The plan before you today are also the
20 result of numerous discussions with the towns of
21 Sandwich and Barnstable during the course of
22 developing the company's application as submitted
23 to the Commission in July.

24 Third, I just want to briefly address

1 some written comments that you have received from
2 Sandwich and Barnstable. And I want to say,
3 initially, that we'll be happy to discuss the
4 details of the towns' letter in more depth to the
5 extent Commission members have particular
6 questions for the company.

7 But I want to highlight a few key
8 points. In particular, the company has and will
9 continue to work constructively with the towns,
10 both Sandwich and Barnstable, to address issues
11 of concern related to the company's proposed gas
12 pipeline project.

13 The towns' written comments reference
14 concerns that are largely aimed at having the
15 company facilitate the towns' plans for a bike
16 path along Service Road. As the company has
17 explained to the towns on numerous occasions, the
18 company cannot agree to the towns' desires in
19 this regard because it's unrelated to the project
20 that the company's proposing and that is the
21 subject of the draft decision and would
22 necessitate the company filing an entirely new
23 application with the Cape Cod Commission, as well
24 as a project change filing with the Siting Board

1 and MEPA.

2 With respect to the Siting Board in
3 particular, a project change proceeding is a very
4 time and resource-intensive process, and the
5 company does not believe it can satisfy the
6 Siting Board's standards on need and cost
7 minimization for approval of a project change of
8 the magnitude contemplated by the towns.

9 Regardless, the company submits that
10 the Commission need not concern itself with the
11 ongoing discussions between the company and the
12 towns that will, in any event, need to be
13 resolved during the local street-opening permit
14 process with each town. Simply put, the towns
15 concerns related to the bike path are unrelated
16 to the project before you today and should,
17 therefore, not delay the Commission's approval of
18 the draft decision.

19 With that, I'll turn the baton over to
20 Mr. Barton. Thank you, very much, for your
21 consideration today.

22 MR. TED BARTON: Thank you, Mike. Good
23 afternoon, everyone. As Mike said, my name is
24 Ted Barton; I'm a co-managing principal with

1 Epsilon Associates, a 50-person environmental
2 consulting firm based up in Maynard, Mass. I've
3 been personally working on this project since
4 2005, and I've been here at a couple of earlier
5 meetings. I see a few familiar faces on the
6 bench.

7 I'm an environmental engineer by
8 training. I'm a Registered Professional Engineer
9 in Massachusetts and several other states, and
10 this sort of work is at the core of my practice
11 at Epsilon.

12 So, I'm going to take about 10 or 15
13 minutes and walk you through some of the basics
14 of the project. We're going to talk a little bit
15 about the project need in the context of the
16 existing system here on the Cape, talk a little
17 bit about project design, the efforts that we've
18 made at outreach in coordination with both public
19 officials and the public as well.

20 We're going to talk about the schedule
21 that's in front of us for the remainder of the
22 local permitting and then the construction of the
23 schedule. And then as Mike said, we'd be happy
24 to take questions and discussions.

1 So this map which those of you who were
2 here for some of the earlier reviews on this
3 project have seen before, but the Sagamore Line
4 Reinforcement Project was envisioned as a 10-year
5 multiphase effort essentially to reinforce the
6 backbone gas supply onto the Cape.

7 So there's an existing 42-mile-long
8 line, the Sagamore Line, that comes over the
9 Canal, runs pretty much the length of the Cape.
10 And this project is intended to reinforce or
11 supplement certain key stretches of that in order
12 that additional gas can be moved onto the Cape.

13 So, the project was envisioned to be
14 done in several phases. The middle segment,
15 which is here in Yarmouth, Dennis, and a little
16 bit of Harwich was built first. That was built
17 maybe almost 10 years ago at this point. The
18 first two phases of the Western segment, which
19 are entirely within the town of Sandwich, were
20 permitted about three or four years ago and
21 construction was recently finished on those two.

22 The Eastern segment over here is being
23 built as part of the mid-Cape main replacement
24 project, which you also had before you about a

1 year ago.

2 So the remaining piece, which is what
3 we're going to talk about today is right here,
4 Phase 3 of the Western segment, and it's about
5 2.2 miles of 20-inch pipe. And with that, this
6 entire project will be completed.

7 So, this is a little more detailed map
8 of the stretch we're talking about. It starts
9 just on the east side of Chase Road where,
10 basically, where Phase 1 and 2 left off. It runs
11 for about 4/10 of a mile along Service Road in
12 Sandwich, and then about 1.8 miles along Service
13 Road in the Town of Barnstable, and it will end
14 right in the vicinity of where Service Road
15 crosses the Eversource high-tension lines toward
16 the end of Service Road.

17 So, the reason we're doing all this, as
18 I mentioned earlier, in addition to reinforcing
19 the supply on the Cape, for quite a few years the
20 Cape system has experienced low pressures
21 especially at the extremity of the system,
22 primarily during the winter during cold weather,
23 high-demand periods. To supplement the pipeline
24 supply, the company has maintained for many

1 decades an LNG facility in South Yarmouth, and
2 that facility is used to inject additional gas
3 into the system when the demand is high and the
4 pipeline cannot meet the supply requirements.

5 So the solution is more pipe basically
6 to increase the flow and the pressure along the
7 system. That, in turn, will enable the company
8 to maintain reliable service, especially in the
9 Mid and Lower-Cape, and it will also allow gas to
10 be provided for future construction that may take
11 place on the Cape.

12 So some of the benefits of the project
13 to the Cape, as I mentioned, it will facilitate
14 or at least eliminate the possibility that gas
15 could not be provided to new customers. It
16 reinforces the gas supply to roughly a hundred
17 thousand existing customers on the Cape. It will
18 pay property taxes to the towns of Sandwich and
19 Barnstable. It is, as we demonstrated in our
20 application, we believe entirely consistent with
21 the Regional Policy Plan and the Local
22 Comprehensive Plan. There are some additional
23 short-term benefits, some construction jobs, paid
24 police details and the like.

1 And last, but certainly not least, it
2 will reduce the company's need to rely on LNG
3 during the winter months and that will translate
4 to fewer LNG truck trips to fill the South
5 Yarmouth tank.

6 So what are we proposing to build here?
7 Basically, 2.2 miles of new 20-inch welded steel
8 pipe. As I mentioned before, about 4/10 of a
9 mile in Sandwich, the balance of it is in the
10 town of Barnstable. The pipe will be placed
11 beneath the pavement in the westbound or
12 northside lane of Service Road. There's no tree
13 clearing required for this part of the project as
14 there was for Phase 1 and 2, but there will be a
15 need to do some tree trimming especially in
16 Barnstable. Because there are no overhead
17 utility lines in Barnstable, the existing trees
18 have grown pretty substantially over the road,
19 and for about 15 percent of the length of the
20 project we'll have to do some tree trimming in
21 order that those low-hanging limbs don't
22 interfere with the construction equipment as it
23 moves along the northbound side, and the trees
24 will be need to be trimmed up to a height of

1 about 20 feet.

2 So we also did a fair amount of
3 research into what existing utilities exist along
4 this stretch of Service Road. And somewhat
5 uniquely for a developed area like this, there
6 are no below-ground utilities and, in fact, no
7 overhead utilities along the entire Barnstable
8 stretch. That stretch of the road is bounded by
9 Route 6 on one side and conservation land on the
10 other side. So there's basically no one there to
11 serve with utilities.

12 And in terms of the Sandwich stretch of
13 Service Road, there is an overhead electric line
14 but no underground utilities there other than the
15 existing gas pipeline.

16 This is just two quick views of what
17 the stretch of Service Road looks like now.
18 Okay. Construction procedure; we would like to
19 be able to do this work with two crews working
20 simultaneously. One would probably start at the
21 Chase Road end and one would start roughly in the
22 middle of the 2.2 mile segment. They would work
23 in parallel. If we can do that, we think this is
24 a two-month/three-month at the outside

1 construction project, so it will move pretty
2 quickly. If we can get through the local
3 permitting in a timely way, we would be prepared
4 to start next spring as early as possible,
5 possibly in March, probably no later than April.
6 So we would be in and out well before the summer
7 season.

8 Given the relative narrowness of the
9 road, we would like to be able to close the road
10 at the worksites as we go along, obviously, with
11 police details and with provisions to allow
12 people to get in and out of their homes in the
13 short stretch in Sandwich where there are people
14 along -- that live along there. And there would
15 be some postings that we'd want to put at either
16 end suggesting that people use Route 6 as a
17 detour for that one exit stretch.

18 All of this would be discussed with the
19 towns. We have to prepare a more detailed
20 Traffic Management Plan as part of the street
21 opening process. So that would be subject to
22 town agreement. But we'd like to be able to
23 accomplish this in a way that we can move along
24 quickly and not inconvenience the public for any

1 longer than necessary. So the road would be
2 reopened each evening. The work areas would be
3 temporarily patched and so on.

4 And then in terms of restoration, our
5 concept at this point is that funds would be set
6 aside for the towns to do curb-to-curb repaving
7 using a contractor of their choice and timing of
8 their choice. But the other restoration that
9 would be required here would be, basically, just
10 some planting and seeding along the road edge as
11 that's disturbed.

12 These are a little out of order, but
13 this is just a shot of giving you an idea of what
14 a typical tree trimming might look like. So this
15 is a west facing photo. So the north, the
16 northbound lane is on your right, and that green
17 hashed area is an idea of the tree trimming that
18 would be required. And as I mentioned, this
19 would need to occur for about 15 percent of the
20 length of the route.

21 So a few of the environmental
22 considerations that were looked at for the
23 project in which are detailed in the application
24 that we submitted; by working under pavement, we

1 avoid any need for actual clearing of trees.
2 There's no significant off-road grading or land
3 disturbance. There's no direct wetland impact,
4 no floodplain impact.

5 We've been to meet with the folks at
6 National Heritage and Endangered Species, and we
7 have their sign off on the rare species aspect of
8 this. And by working in and right along the
9 road, we're technically exempt from that review
10 but we did it anyway, and we've agreed to some
11 protective measures for turtles as we did for
12 Phase 1 and 2.

13 There are no DEP public water supply
14 areas along this stretch. No expected impacts to
15 archaeological or historical resources. No
16 visual impacts other than one or two locations
17 where we'll have some minor above-grade equipment
18 for remote-operated valves and vents. And as I
19 mentioned earlier, there are very few abutting
20 residences on this stretch of the project, about
21 17 homes in Sandwich, none in Barnstable.

22 And this is an example of what the
23 control box and vent pipe looks like. This
24 photo, I believe, was taken down near Route 130

1 at the beginning of Phase 1 of the project.

2 As we've gone through this process and
3 we've been working on this phase of the project
4 for about the last year, year and a half,
5 National Grid folks have done door-to-door
6 outreach with the abutting landowners. We had a
7 prefiling meeting with the Cape Cod Commission
8 staff back in March. We've done a fair amount of
9 state coordination, which I've touched on already
10 and municipal coordination. There's been an
11 extensive series of meetings between the company
12 and the DPW town engineer folks in both the towns
13 of Sandwich and Barnstable.

14 So our schedule for this, we do have to
15 file a short project change filing, basically to
16 get EFSB and MEPA sign off for hydrostatic
17 testing in lieu of pneumatic testing. And for
18 those of you who were here for the first two
19 phases, you may remember that was part of the
20 project change process that we went through for
21 that. But given that we've done this already, we
22 anticipate this to be pretty straightforward.

23 The primary work that remains is the
24 local permitting for street-opening permit and

1 tree trimming. That would need to be done in
2 both towns, and there also would be a
3 Conservation Commission filing in Barnstable for
4 buffer zone work.

5 Assuming we can get through that
6 reasonably quickly, as I mentioned earlier, we'd
7 like to be able to start construction in April or
8 May. And if we can get this done in the two or
9 three months that I discussed, we'll be out of
10 there before the summer season gets underway.

11 Thank you for your attention.

12 CHAIR HAROLD MITCHELL: So, at this
13 time, we'll have a presentation. You're
14 completed?

15 MR. TED BARTON: I'm done.

16 CHAIR HAROLD MITCHELL: Thank you. At
17 this time, we'll have a presentation by the
18 Commission staff.

19 MR. JON IDMAN: Good afternoon. Thank
20 you. Jon Idman, I'm your Chief Regulatory
21 Officer. The staff's prepared a draft written
22 DRI Exemption decision for your consideration,
23 and staff recommends granting the DRI Exemption.
24 Now that decision contains all the findings and

1 conditions necessary and appropriate to support
2 the grant.

3 As was stated, this project will
4 connect the Sagamore Line Reinforcement Project
5 segments that have previously been permitted.
6 All those other segments have either been
7 constructed or are under construction currently.

8 This work is really typical of other
9 in-pavement utility work that is done every day
10 on Cape Cod. From a regulatory perspective here,
11 this project requires Development of Regional
12 Impact or triggers Development of Regional Impact
13 review because, ultimately, the master plan that
14 was proposed back in 2006 required the
15 preparation of an Environmental Impact Report
16 under MEPA, and then subsequently triggered Cape
17 Cod Commission's DRI jurisdiction.

18 A DRI review is really generally about
19 addressing permanent regional impacts from a
20 project. In specific, a DRI Exemption
21 application allows an applicant to maintain that
22 a project won't have permanent regionally
23 significant impacts to protected resources.

24 Now the applicants have provided an

1 expansive application here much like a full
2 Development of Regional Impact application. And
3 from staff's perspective, staff's analysis and
4 recommendations wouldn't be significantly
5 different or any different than if this were a
6 DRI review. Really, the outcome from staff's
7 perspective would be the same.

8 There's no clearing or major grading
9 associated with this project. The work is either
10 under payment or within existing disturbed area
11 within public road layout. They've avoided
12 impacts primarily by locating the project in
13 these areas. Where there are impacts, they are
14 anticipated to be temporary ones related to
15 construction period impacts, things like traffic
16 or erosion.

17 However, the applicants have proposed
18 mitigation for these temporary construction-
19 related impacts. They have a robust
20 environmental construction plan that includes
21 stormwater management for construction and spill
22 protection as well as protocols for work in
23 sensitive areas like wetlands buffers.

24 They provided a Travel Management Plan

1 that contains traffic controls during
2 construction that's been developed and will
3 continue to be developed in consultation with the
4 towns.

5 Additionally, there's a commitment to
6 establishing a roadwork escrow, which will allow
7 repaving for this entire length. That will be
8 offered for the benefit of the towns of Sandwich
9 and Barnstable for them to apply and use flexibly
10 as their budgets and projects permit that
11 repaving.

12 The applicant has communicated with the
13 towns, with the Massachusetts Historic
14 Commission, and the Massachusetts National
15 Heritage and Endangered Species Program. They've
16 undertaken a botany study at the request of
17 Heritage for some plants that -- there were
18 questions whether they existed at the eastern end
19 of this line. That botany study didn't result in
20 any listed plant species. Heritage did request
21 and the applicants are proposing turtle training
22 be required by project contractors, and the
23 applicant has agreed to work that into its
24 Environmental Construction Plans.

1 There are some conditions in this draft
2 DRI Exemption decision. As I mentioned, this
3 Environmental Construction Plan and Travel
4 Management Plan, the Commission staff would like
5 final copies of those. They were submitted in
6 draft form. That Turtle Protection Plan would
7 have to be formally integrated into the
8 Environmental Construction Plan.

9 As you heard referenced, there was a
10 letter received jointly from the towns of
11 Barnstable and Sandwich. There was a response
12 letter received from the town, I'm sorry, from
13 that applicant. Those letters are in your
14 materials, and I believe there are some town
15 officials here who may want to speak to these
16 issues as well.

17 Notwithstanding the issue -- the letter
18 from the town, Commission staff believes that
19 this project is eligible for an exemption request
20 and recommends that the Commission grant this
21 exemption request. The towns have wrote opening
22 permits and the issues -- the towns raised can be
23 handled under that local permitting. The
24 concerns in the letter of staff's opinion are not

1 related to regional impacts over which the
2 Commission has jurisdiction for impacts that can
3 be imputed to the project as it's proposed.

4 So, I'll be brief. That's what I have,
5 and I'd be happy to answer any questions as the
6 hearing develops.

7 Thank you.

8 CHAIR HAROLD MITCHELL: Thank you. At
9 this time, I'll take any questions or comments
10 from the Commissioners.

11 Yes, Elizabeth.

12 MS. ELIZABETH TAYLOR: I really
13 appreciate the work you have gone through to
14 maintain the integrity of this project
15 environmentally. I remember last time that you
16 opened up 6A in Brewster, and I would caution you
17 to make sure you close up the road so it's in the
18 same or better condition because you didn't do
19 that in Brewster. And we had a lot of issues
20 when you opened up Route 6A.

21 So, just as a caveat, make sure you do
22 your road repairs and patches -- I guess you're
23 calling them permanent patches, just make sure
24 they are up to par or better. It would be

1 greatly appreciated, I'm sure, by the towns.

2 Thank you.

3 CHAIR HAROLD MITCHELL: Thank you.

4 Anyone else? Yes, John.

5 MR. JOHN HARRIS: I heard a comment
6 from the applicant that there would be less LNG
7 trucks, and my question is is it ultimate plan to
8 eliminate them in total, or do we still have to
9 realize trucks going in to supplement the need
10 for LNG?

11 MR. TED BARTON: Let me take a stab at
12 that. It's been a little while since we looked
13 at these numbers. But the gist of that question
14 was something that the Siting Board asked at
15 several different steps along the way for this
16 project. And the intention is to greatly reduce
17 and perhaps, in a warm winter, eliminate the need
18 for LNG. But the LNG storage facility is planned
19 to remain in place because it is important
20 backup. So should there be particularly cold
21 weather for a long period of time or an issue
22 with the pipeline supply or the pipeline system,
23 that's an important backup system. So that tank
24 in South Yarmouth would remain in place for the

1 foreseeable future, albeit with fewer trucks
2 because of the capacity of the pipeline is
3 improved.

4 MR. JOHN HARRIS: So that means that
5 this is a temporary process, perhaps in the next
6 10 years we'd be back to the same thing again?

7 MR. TED BARTON: To my knowledge, the
8 fix that is about to be finished is going to hold
9 things for quite some time. I can't speculate on
10 what might happen 20 years from now, but I've not
11 heard any discussion of plans for projects beyond
12 this.

13 And as you know, the Mid-Cape
14 replacement project is replacing much of the Cape
15 system with brand-new pipe. So that is underway
16 as well. And beyond that, I don't know if
17 anybody from the company that's here today could
18 add to that, but that's my knowledge of the
19 situation.

20 MR. JOHN HARRIS: No, I wasn't asking
21 you to speculate on the future. Just looking at
22 the current situation and the towns that are
23 being affected by it now, you know, the town
24 engineer from Sandwich is here, and someone's

1 going to say, well, oh, this is going to show up
2 again and that's really the question.

3 So you just simply say it's a
4 possibility and we leave it at that because you
5 certainly indicated that there will be less
6 trucks but there's no plan to eliminate this
7 process.

8 And I just wondered, you know, from an
9 engineering perspective a supply, you know, why
10 wasn't it planned so that you could actually go
11 and install perhaps a 30-inch pipe and not be
12 worried about this in the next years.

13 MR. COLIN MURPHY: I'm Colin Murphy.
14 I'm the Project Engineer for this project. I
15 just wanted to add the prospective of scope
16 between the existing main, which is a 12-inch
17 main, and the proposal of this project would be a
18 20-inch main to reinforce that existing 12. So
19 to go from being limited by one 12-inch main to
20 having the 12-inch main and a 20-inch main really
21 provides a much greater amount of capacities than
22 what's existing.

23 So the likelihood of needing full-time
24 LNG truck deliveries after this project is

1 completed is unlikely. It would be saved for
2 supplemental gas deliveries sort of as a backup
3 option.

4 MR. JOHN HARRIS: Okay. Thank you.

5 CHAIR HAROLD MITCHELL: Thank you.
6 Anyone else have a question at this time, the
7 first round?

8 Joy.

9 MS. JOY BROOKSHIRE: On the last
10 project that we reviewed, the abutters to the
11 work that was going to be done were upset that
12 you did not really notify them even though you
13 were told that they were notified because they
14 weren't there in their homes. They were away for
15 the winter or whatever. And people that were
16 further back off the road were never notified.

17 How have you notified the abutters this
18 time, and did you reach all of them?

19 MR. MICHAEL KOEHLER: I can answer that
20 question. Dennis, the community relations
21 person, is here too for the company if I glitch
22 the answer.

23 But my understanding is that, yes,
24 everybody was talked to or at least contacted

1 with a door hanger. And to date, nobody has
2 expressed any concerns to the company about the
3 project. And I think I'm probably not
4 overstating things by saying that the feedback
5 that the company did get, most of it was
6 appreciative -- not appreciative but there were
7 no concerns raised about proposing a line that's
8 in the street.

9 MS. JOY BROOKSHIRE: Also, some of the
10 abutters were concerned because they live close
11 to the work about possible safeguards if you had
12 a gas leak. Could you describe your safety
13 measures?

14 MR. MICHAEL KOEHLER: For this project?

15 MS. BROOKSHIRE: Uh-huh.

16 MR. MICHAEL KOEHLER: It will be the
17 same as the last project. It will be, and I need
18 some help from engineers here, about the safety
19 of the gas pipeline, but, you know, company --
20 safety is paramount. And so whether it's
21 construction integrity or monitoring, ongoing
22 monitoring. Bring the engineers back, not the
23 lawyer.

24 MR. TED BARTON: But that's a good

1 introduction, Mike. So, Mike's right. The
2 safety precautions --

3 CHAIR HAROLD MITCHELL: Excuse me; can
4 you make sure your microphone is on, please. We
5 record this, and I just want to make sure
6 everybody understands and gets an opportunity to
7 hear.

8 MR. TED BARTON: I think it's on. Can
9 everybody hear me okay?

10 MS. BROOKSHIRE: Is there a green
11 light?

12 MR. TED BARTON: Yeah, the green
13 light's on so.

14 MR. MICHAEL KOEHLER: No.

15 MR. TED BARTON: Now the green light's
16 on brighter. (Laughter.) So as Mike started to
17 say, the safety program, if you will, for this
18 2.2 miles of pipe is essentially the same as you
19 heard about for the first 4.4 miles of the
20 Western segment and for the middle segment which
21 preceded it. And it really starts with the
22 proper design and construction of the new pipe.
23 So a lot of thought goes into the design, making
24 sure that the pipe is at a proper burial depth.

1 The construction is quite a painstaking
2 process, so this is high-strength steel pipe.
3 It's very carefully welded. Each weld is
4 nondestructively tested or x-rayed, if you will,
5 before the pipe goes into the ground. The
6 coating, if it's disturbed during the welding
7 process, is replaced. There's cathodic
8 protection on the pipe which makes sure there are
9 no corrosion as the pipe ages in the ground.
10 This pipe is large enough and straight enough
11 that it can be pigged or internally inspected.
12 So at periodic intervals, something called a
13 "smart pig" can be run through the pipe to look
14 for any thinning of the pipe wall or any dirt
15 that's in it that should be in it, etcetera.

16 So it really is a carefully designed,
17 carefully constructed pipe and that's the
18 predominant way you ensure a safe pipe. And then
19 beyond that, the location is marked. There will
20 be as-built plans given to the town, provisions
21 to make sure that there's no digging, which is
22 the primary cause of pipeline issues once they're
23 in the ground; a contractor unwittingly came in
24 the area hitting the pipe and causing damage to

1 it.

2 So those are, off the top of my head,
3 from what I remember from the last time around.
4 Those are the key points but, Colin, do you want
5 to add to that?

6 MR. COLIN MURPHY: Sure.

7 MR. TED BARTON: Very talkative
8 engineers here.

9 MR. COLIN MURPHY: So this main
10 was designed using DOT 192 and ASME 31.8 federal
11 standards. Although this is a technically, as
12 the federal government recognizes it, a
13 distribution main, it was designed under the
14 transmission of federal codes in addition to
15 Massachusetts CMR 220.

16 And another point that was brought up
17 earlier about the weld inspections and the smart
18 pigging during construction, those are typically
19 federal requirements. In order to exceed the
20 safety standards outlined by the state, we defer
21 to the Federal Transmission DOT Standards 192 and
22 31.8. So we inspect 100 percent of all girth
23 welds. We inspect the coating through a process
24 known as jeeping for all two-part epoxy coating

1 repairs or welds.

2 Yeah, essentially, we adhere to all the
3 federal standards for both construction and
4 design. And the permit design drawings were
5 stamped in accordance with those codes.

6 CHAIR HAROLD MITCHELL: Okay. Yes,
7 Ernie.

8 MR. VIRGILIO: I'd just like to note
9 having the opportunity to observe the work of
10 this company over many years, especially as DPW
11 Director in town in the past. I'd like to
12 compliment you on your process; how safe your
13 people are, your processes, your incredible work
14 that you do, and I'd just like to say that it's a
15 good company that does very good work on Cape Cod
16 for us.

17 CHAIR HAROLD MITCHELL: Thank you.
18 Seeing no other questions for the first round?
19 Yes.

20 MR. RICHARD ROY: Will this project
21 have to be completed before the moratorium is off
22 in Yarmouth and Dennis and Brewster and Harwich?

23 MR. DENNIS MCKENNA: Hi. I'm Dennis
24 McKenna, Customer and Community Manager. I'm

1 working on that project you're referring to, the
2 Mid-Cape replacement. This project will not have
3 to be completed before the moratorium is lifted.
4 Right now, we're currently under construction
5 with the Mid-Cape, and we are still planning on
6 lifting the moratorium in April 2019. This was a
7 planned -- as we've heard, it's been a long-
8 planned reinforcement project for the Cape.

9 MR. RICHARD ROY: Is that project on
10 schedule?

11 MR. DENNIS MCKENNA: The project is,
12 currently, it's on schedule. We're working with
13 the town of Harwich. The Cape is a challenge for
14 us with the seasonality and the summer
15 moratoriums versus other towns where they shut us
16 down in the winter; it tends to be reversed, but
17 we fully intend to complete that project on time.

18 MR. RICHARD ROY: Thank you.

19 CHAIR HAROLD MITCHELL: So, at this
20 time, I'm going to close the first round of
21 questions and open up the podium for any public
22 comments beginning with officials. Any officials
23 from the state/federal government? Seeing none.
24 Any officials from the towns? Please come to the

1 microphone and introduce yourself and let us know
2 your position.

3 Thank you.

4 MR. PAUL TILTON: Thank you. My name
5 is Paul Tilton. I'm the Sandwich DPW Director
6 and Town Engineer. I thank you for the
7 opportunity to speak to you today. I also thank
8 National Grid for a very thorough presentation.

9 I'd just like to point out I've been
10 working on these projects, Phase 1 and 2 and now
11 Phase 3 for over 10 years. And we've had a very
12 good working relationship with National Grid.
13 Very professional and responsive to the towns,
14 and I do appreciate and thank them for that.

15 Just a little background about Phase 1
16 and 2, first of all, and the reasoning behind the
17 letter that we submitted and some of our concerns
18 regarding the Phase 3 project. As you know, the
19 Phase 1 and Phase 2 was a Development of Regional
20 Impact. Initially, National Grid wanted to
21 locate that gas main under the Service Road
22 pavement. The town had some concerns about that.
23 They submitted those concerns in a letter to the
24 Cape Cod Commission.

1 Based upon this, National Grid opted to
2 locate the gas main outside of the road. So
3 within a hundred foot layout along the Service
4 Road, the town layout, which is really where
5 utilities should go.

6 As a result, this project was a very
7 successful project for National Grid and the
8 town. They developed and had an excellent Visual
9 Mitigation Plan which was conditioned by the Cape
10 Cod Commission. They also provided a final
11 construction grade which, ultimately, will be a
12 foundation for a shared-use path or bike path,
13 which is currently on the Transportation
14 Improvement Plan for 2022.

15 This shared-use path is a priority of
16 the state, regional, and local agencies to
17 continue an extension of the Rail Trail across
18 the entire length of Cape Cod. Due to the excess
19 of Phase 1 and Phase 2, the towns of Sandwich and
20 Barnstable prefer that the same approach be taken
21 for Phase 3, which is locate the gas main outside
22 of the road. This is a logical continuation of
23 utility corridor and results in the least impacts
24 to the towns and meets the goals of both towns.

1 National Grid's preferred option, as
2 you heard today, Phase 3, is to locate the gas
3 main under the Service Road pavement. Now the
4 town has many concerns in this regard. The major
5 concern is not necessarily the shared-use path
6 and being able to facilitate that. The major
7 concerns, and I won't go into detail here, but
8 they deal with the difficulty of installing
9 future town utilities and infrastructure.

10 Also, concern about the safety for town
11 workers and water district workers working around
12 a gas main under the Service Road; reduced life
13 of the Service Road with that gas main under that
14 pavement, traffic disruption, most probably
15 significant cost borne by both the towns of
16 Sandwich and Barnstable.

17 So, we're not opposed to their
18 proposal. We prefer the out-of-the-road-option.
19 But, right now, they propose some mitigation to
20 offset the location of that gas pipeline under
21 the Service Road pavement. We're not there yet.
22 We're sort of at an impasse. Unfortunately,
23 their plan right now is not consistent with the
24 goals of the towns.

1 Further, it increases cost to the towns
2 expected to be in excess of \$15 million over the
3 course of years when the town must install
4 infrastructure and facilities along that road.

5 So, in order to make National Grid's
6 proposal viable and for the towns to consider
7 their option, National Grid must develop a plan
8 that effectively mitigates all town impacts and
9 meets the future goal of both towns.

10 In this regard and understanding that
11 the Cape Cod Commission has recommended a DRI
12 Exemption, we seek the Cape Cod Commission's
13 assistance, their technical expertise to help
14 advance a mutual acceptable project that meets
15 the goals of both National Grid in the towns of
16 Sandwich and Barnstable.

17 I thank you for the opportunity to
18 speak and certainly available to any questions.

19 CHAIR HAROLD MITCHELL: Thank you.
20 Anyone else?

21 MS. ELIZABETH JENKINS: Good afternoon.
22 My name is Elizabeth Jenkins. I'm the Planning
23 and Development Director for the town of
24 Barnstable. I'd like to thank Mr. Tilton for his

1 leadership on this issue, and, well, I defer to
2 his experience and expertise in this only to say
3 that we concur with his position, and that the
4 town of Barnstable is committed to finding a
5 solution that supports the needs, of course, of
6 National Grid as well as to bringing the
7 Governor's vision of having a Cape Cod Rail Trail
8 all the way across the Cape to fruition.

9 So, also available if you have any
10 questions.

11 CHAIR HAROLD MITCHELL: Thank you. Any
12 other public officials? Any public, period, that
13 would like to step up to the microphone and
14 comment? Seeing none.

15 We'll go back to a second-round of
16 question from the Commissioners if there are any?
17 Yes, Jackie.

18 MS. JACQUELINE ETSTEN: Just a comment
19 that I hope that you have a certified arborist
20 supervising the tree trimming so that it's not a
21 shearing but it's a proper pruning that will
22 benefit the trees in the future years.

23 Thank you.

24 CHAIR HAROLD MITCHELL: Anyone else?

1 Yes, Jack.

2 VICE CHAIR JOHN MCCORMACK, JR.: Thank
3 you, Mr. Chairman. I just want to say that I'm
4 always in favor of anything that will reduce the
5 over-the-road deliveries, tanker trucks and Mr.
6 Harris's remarks to hoping that they can be
7 eliminated completely someday.

8 Thank you.

9 CHAIR HAROLD MITCHELL: Joy.

10 MS. JOY BROOKSHIRE: Did we grant a DRI
11 Exemption for the last one down the Mid-Cape?

12 CHAIR HAROLD MITCHELL: I'll ask Jon
13 Idman to answer.

14 MR. JON IDMAN: There was a DRI
15 Exemption granted for the Mid-Cape Main
16 Replacement Project but not for Sagamore Line
17 Reinforcement Project, Western Segment, Phases I
18 and II.

19 MS. JOY BROOKSHIRE: And without an
20 exemption being granted or if an exemption is
21 granted, how do we reach an agreeable decision of
22 both the towns and the gas company to have the
23 pipes underground, not under a road?

24 MR. JON IDMAN: Well, I'm not sure you

1 could reach an agreeable solution necessarily
2 through Development of Regional Impact review
3 either. I mean the Commission responds to
4 projects that are before you. The project before
5 you, staff's position, has very few, if any,
6 permanent, regionally significant impacts. A
7 bike path would be a great thing, but it's not
8 any mitigation that's related to any impact
9 that's being created by this project.

10 So I think this discussion has to occur
11 between National Grid and the towns and to the
12 extent the Commission during those discussions
13 can lend its technical expertise. I think the
14 Commission staff would be willing to do so.

15 MS. JOY BROOKSHIRE: That would be very
16 nice.

17 CHAIR HAROLD MITCHELL: John, if I
18 could ask you a question, please? If we deny --
19 if we approve this exemption but the towns of
20 Barnstable and Sandwich come forward and are able
21 to work with, what happens if they want to change
22 that positioning and put that underneath instead
23 of putting it down the road, put it to the side
24 as was required in Phases 1 and 2; how does that

1 affect us?

2 MR. JON IDMAN: Essentially, a project
3 for which an exemption was granted is modified, I
4 guess it would depend on the extent of the
5 modification. I mean also recognize here that
6 we're not talking about taking a line and moving
7 it three feet. I mean I think the reason there's
8 some objection here by the company is given the
9 resources, the wetlands, the priority habitat
10 mapping, the residences along this area, and the
11 topography, you're talking about moving it
12 substantially outside the paved way because
13 there's a large layout there, a hundred feet.

14 But I guess your question is it would
15 really depend on how much it's modified. I mean
16 there may be modifications that still fit within
17 the four-corners of this decision. Something
18 else may require a new application to the
19 Commission.

20 CHAIR HAROLD MITCHELL: Thank you. Any
21 other questions?

22 Yes, John.

23 MR. JOHN HARRIS: I'm not really sure
24 about this, but Mr. Tilton mentioned that the

1 town of Sandwich is projecting that they'd have
2 to spend an additional \$15 million to address
3 infrastructure issues. How are they going to go
4 about resolving this matter because this seems to
5 be outside of this hearing, but he's raised it as
6 a significant concern?

7 So, I'm just listening because it means
8 my taxes are going to go up too. But is this
9 something that we should expect to come back to
10 the Commission for some other review or some
11 discussion?

12 Jon, you're the expert here.

13 MR. JON IDMAN: I'm not an expert but
14 I'll try. No, I don't expect -- if you grant the
15 exemption, I don't expect it to come back to the
16 Commission. I expect for this discussion to take
17 place during local permitting for the road-
18 opening permits.

19 There's some other laws which the
20 Commission should be aware of here. By statute,
21 a public service corporation has, basically, an
22 easement within a public way. So if that road
23 opening permit were denied, the company would
24 have the ability to go to the DPU, Department of

1 Public Utilities, and seek the ability to put
2 this within the layout.

3 Another thing an agency under DPU is
4 concerned with, the EFSB, is balancing the
5 provision of utilities with the cost of utilities
6 because those costs are passed along to
7 ratepayers.

8 I think you heard that referenced in
9 the presentation that, you know, a bike path is a
10 great thing and it's a laudable endeavor, but
11 there's only so much the company can do to take
12 an unrelated project, incorporate it into its
13 project, and have the EFSB sign off on that;
14 where the EFSB is looking at the need and
15 reliability of a project and the needs it's going
16 to satisfy relative to the cost. The EFSB has
17 looked at this project and determined that the
18 company best meets its needs at lowest cost by
19 proposing the line where it's proposed before you
20 today.

21 And, you know, I'll mention something
22 about \$15 million. I don't know where that
23 number comes from. It was a statement made but I
24 don't know if \$15 million means you can help us

1 with a \$15 million bike path project or if that
2 \$15 means that their costs are going to increase
3 because you would have to do something to the
4 road itself. So there's been really no
5 substantiation about what this \$15 million in
6 increased costs actually means and what it's
7 related to.

8 So if that's a discussion you want to
9 have here, I would have that discussion, John,
10 with Mr. Tilton because I'm not quite sure what
11 the origin of that number is, what it relates to.

12 MR. JOHN HARRIS: Mr. Tilton already
13 pointed out what it was, and he didn't give the
14 details. But if that's what is necessary, I was
15 simply asking a question that if, in fact, the
16 town, in his expertise there, foresees that there
17 will be a \$15 million infrastructure expense. He
18 didn't say anything about a bike path or anything
19 else like that; it was infrastructure, then that
20 was the reason why I asked the question.

21 So, Mr. Tilton, if you've got anymore
22 facts to add to it or we can move on.

23 MR. PAUL TILTON: Yes. The details
24 behind that number, we have consulted VHB, our

1 consultant. We've also consulted the water
2 district, and we've come up with just a bunch of
3 estimates based upon their proposal. And part of
4 their proposal for mitigation includes five-foot
5 shoulders for a bicycle lane on the Service Road.
6 That's part of their mitigation.

7 Unfortunately, it only includes the
8 paving of those five-foot shoulders. It doesn't
9 include any slope treatments. It doesn't include
10 the actual specifications we require for road
11 repaving, guardrails, retaining wall treatments;
12 all those things would have to be part of their
13 mitigation with those five-foot shoulders. They
14 are not proposing to pay for that. So that's
15 very costly. That, in itself, costs 2 million
16 for the town of Sandwich to accomplish that, and
17 5.5 million for the town of Barnstable to
18 accomplish that.

19 Also, for the bike lanes, to be
20 consistent, you need to have a uniform bike
21 facility on a road. So if you provide a bicycle
22 facility for Phase 3, it's my obligation to make
23 sure I have uniform bicycle lanes the entire
24 length of the Service Road. So for Phase 1 and

1 Phase 2, that cost to the town of Sandwich would
2 be \$7.1 million.

3 Additional construction treatments,
4 design treatments for drainage infrastructure
5 requires us to work around that gas main,
6 \$120,000.

7 The water district, because they have
8 to provide service, if they have to go over or
9 under that gas main, much more expensive. They
10 have to deal with a lot of safety issues, shoring
11 that cost is \$4,000 per crossing for the town of
12 Sandwich water district.

13 Premature road failures; it's not if
14 it's going to happen, it will happen when you
15 have a gas main under the road. And they still
16 haven't met our specifications for road paving,
17 which would further deteriorate that road. That
18 is \$960,000.

19 So, again, these are all costs and
20 there's more that go along with that. But these
21 are costs that would be borne by the towns of
22 Sandwich and Barnstable. That's our major
23 concern.

24 MR. MICHAEL KOEHLER: Mr. Chairman, if

1 I may be heard?

2 CHAIR HAROLD MITCHELL: John, are you
3 done?

4 MR. JOHN HARRIS: Yeah. I would defer
5 to my colleague, Mr. Virgilio. He indicated that
6 this applicant engineering kindness is quite
7 nice, so I suppose that we can expect that
8 they're going to be very friendly and kindly to
9 the situations that goes down the road because I
10 don't see that there's going to be any commitment
11 of any sort. It's a nice bit of look-ahead
12 engineering, but if there's no commitment to a
13 present, you know, that's where we stand.

14 CHAIR HAROLD MITCHELL: Mike, I'm going
15 to let you speak back, and then I'm going to come
16 back to questions from the Commissioners.

17 MR. MICHAEL KOEHLER: Sure. Thank you,
18 Mr. Chair. So, I'll do the lawyer thing, and Mr.
19 Barton can do the engineering thing. But, you
20 know, like we started off by saying today, the
21 company is, has been, and will continue to be
22 committed to working constructively with Paul and
23 his staff and the folks in Barnstable to address
24 and mitigate the impacts related to this project

1 that are related to this project.

2 But I would ask you, all, in the list
3 that Mr. Tilton just provided you, notice how
4 many times the word "bike path" came up. And we
5 submit to you that where the sticking points is
6 with us and the towns deals on that point, we
7 recognize the objective of the bike path. And
8 however laudable the bike path idea is for the
9 Cape and for the region, we continue to submit
10 that it's two separate projects. There's the
11 bike path and there's our pipeline project.

12 And our pipeline project has -- there's
13 no nexus between our pipeline project and the
14 desire for the bike path. So with respect to
15 some of the engineering aspects of it, I'll let
16 Mr. Barton tell you.

17 MR. TED BARTON: Yeah, so I'm going to
18 offer a few comments on this, but let me start by
19 noting that the \$15 million cost estimate that
20 the town of Sandwich and town of Barnstable has
21 put on the table, we saw, for the first time, in
22 a letter that we received late in the day on
23 September 11. So we've not had much time to
24 study that in any detail.

1 We did ask for some backup for it, and
2 we got a half-page list of kind of bullet points
3 which Mr. Tilton, I think, covered in his remarks
4 a few minutes ago.

5 But, building on that, one of the key
6 points that Paul covered, and I think it's worth
7 going back to, is the discussion about five foot
8 additional paving to serve as a bike lane along
9 Phase 3 of the project. So there's some history
10 to that.

11 This discussion of in-road versus off-
12 road for Phase 3 has been going on in one form or
13 another for at least a year now. And at one
14 point, the company met with the town managers in
15 an attempt to get another perspective on this.
16 And one of the ideas that came out of that
17 meeting was the idea that in lieu of a full-
18 fledged separate shared use path or bike path
19 well off-road that perhaps this piece of Service
20 Road could be widened by 5 or 10 feet and a bike
21 path striped off. It's not, in bike path worlds,
22 it's not as good as a fully separate path, but it
23 would be a whole lot better than the road that's
24 out there now. So it seemed like kind of a

1 reasonable suggestion, and it was something that
2 the company attempted to develop by talking about
3 how that might be paid for via a paving escrow.

4 So as the discussion evolved, we heard
5 a fair number of objections from the town at the
6 DPW level that caused us to realize that that --
7 what seemed like a reasonable compromise was
8 really not going to work.

9 And one of the things that Paul alluded
10 to in his comments or stated in his comments is
11 if we did this widening of Phase 3 and striped
12 off a bike path that he has an obligation to then
13 provide a consistent bike path all the way back
14 to 130. So half of the \$15 million cost estimate
15 is based on the assumption that you would widen
16 that stretch of Service Road from 130 to Chase
17 and have striped bike lanes down either side
18 which would then match the striped bike lanes
19 that have been talked about for Phase 3.

20 So, that, you could do that. It seems
21 kind of silly given that a big part of the reason
22 that the Phase 1 and Phase 2 pipe was done off-
23 road, while there were some legitimate utility
24 interference concerns, it also, very clearly, was

1 to pave-the-way, no pun intended, for a bike
2 path.

3 So now there is a cleared graded area
4 that full length, 4.4 miles of Service Road, that
5 will make a dandy grade for a shared-use path, a
6 separate path off the road. That's clearly what
7 the town would like to do.

8 In one of the letters we received, Paul
9 mentions that the state, in fact, has put some
10 funding into the 2022 Transportation Improvement
11 Plan to fund just that kind of construction.

12 So, I think at least half of the \$15
13 million estimate, if you want to call it that, is
14 based on an entire, from our perspective, based
15 on a really mistaken premise or at least a
16 premise that to us does not make a whole lot of
17 sense.

18 So another option here is for the town
19 to pursue construction of an off-road bike path
20 along Phase 3. The towns would be responsible
21 for designing that, as we understand that the
22 state would pay for the construction of it, and
23 then you would have, in fact, a consistent off-
24 road bike path the entire length of Service Road.

1 But as has been discussed, National
2 Grid is not in the bike path building business.
3 There's no reason to build a bike path as part of
4 a gas pipeline project, and that's really at the
5 root of the discussion that is being held.

6 Now all that said, we still have the
7 whole road opening permit process in front of us,
8 and just as we have worked cooperatively with the
9 towns on the road opening for Phase 1 and 2, it's
10 certainly our intention to do the same thing on
11 Phase 3. Will we be able to find a solution that
12 everybody is okay with? We really won't know
13 until we have that discussion. But we fully
14 intend to have those discussions over the next
15 several months and, hopefully, we can find a
16 solution and people can move forward.

17 So, I realize I was kind of light on
18 engineering content and long on speechifying, but
19 I thought it was an important point to make, so
20 thank you for listening.

21 CHAIR HAROLD MITCHELL: Thank you.
22 Royden.

23 MR. ROYDEN RICHARDSON: I think it's
24 important when the towns speak and the people in

1 the towns have concerns that we all pay attention
2 and try to work these things out. I think when
3 it comes to groups like you people represent, we
4 all think about the money that you make, you
5 know, on the people who live in the towns
6 involved and that sort of thing.

7 I think the town people, as I would
8 want to do those things which are fair, but in
9 terms of I think -- I'm not the least bit clear
10 about what they're saying. And I would think
11 that we need to compare the benefits of the
12 pipeline, have a sense of what the real benefits
13 are, but also what the benefits of a bike path or
14 whatever they're discussing. I think the company
15 is big enough, and I also think the towns are big
16 enough so they can sit down and talk out and come
17 to some agreement. So when it gets to a place in
18 the regulatory part we don't have to sort of
19 figure all that out.

20 I wouldn't like to vote for or against
21 what you proposed based on the information that
22 you've given us in terms of what the towns'
23 motives are and what they want. And I think it's
24 an issue that when it comes to utilities wanting

1 to do something, it's an issue that everybody
2 thinks utilities have all the money in the world.
3 They might; I don't know. But I think the
4 utilities have to take good care of their
5 customers too, and this is certainly one way they
6 should be able to do it.

7 MR. MICHAEL KOEHLER: So, I appreciate
8 that, Commissioner, and if I could just respond
9 briefly about that. I think, absolutely, what
10 the company has gone above and beyond to try and
11 work with the towns to come to a mutually
12 agreeable solution, you know, with Paul's
13 interest and the interest of the company.

14 I think another bit of perspective that
15 might here is that from the companies'
16 perspective, the companies are committed to their
17 communities that they serve -- communities that
18 they serve. They're also subject to heavy
19 regulation from state regulators in terms of
20 being able to justify certain projects, you know,
21 the need for certain projects, the impacts of
22 certain projects, the cost for certain projects.
23 And the reason why cost is a consideration is
24 because cost in projects like this ultimately end

1 up back with customers.

2 So what the company is always cautious
3 about doing is addressing legitimate concerns
4 that have a nexus to the project that the
5 companies are proposing. So to the extent there
6 are particular impacts that we can identify
7 through conversations with Paul and folks in
8 Barnstable about particular impacts associated
9 with our proposed gas pipeline, we're all ears.
10 And we look forward to those conversations.
11 We'll have those conversations.

12 I think where we're getting into
13 trouble is that the very laudable objective of
14 the bike path is getting lumped into the very
15 simple proposal by the company to build a gas
16 pipeline. And the company has gone as far as it
17 feels like it can in service to its customers and
18 service to its regulators and service to the
19 communities where it serves.

20 And I think with respect to the bike
21 path, we're at a point now where it's -- when we
22 think about -- so, hypothetically, if we were to
23 accept the town of Sandwich and the town of
24 Barnstable's desired approach for us to go off-

1 road such that we could facilitate the
2 continuation of the bike path. What the company
3 would be facing would be a real permitting
4 gauntlet and one that we don't think we can
5 justify, frankly.

6 What I mean by that is that if we were
7 to adjust the alignment consistent with what Paul
8 or Sandwich and Barnstable are advocating for
9 here today, we would have to submit an entirely
10 new application to the Commission and, also, we
11 would have to submit an entirely new -- we'd have
12 to submit a project change application to the
13 Energy Facility Siting Board.

14 And when we're before the Energy
15 Facility Siting Board on a project change, we
16 have to justify that project change, and we have
17 to justify it based on -- we have to be able to
18 show that the project change is advantageous over
19 what the Siting Board originally approved on the
20 basis of environmental impacts, cost, and
21 reliability.

22 So that's what we have to analyze these
23 requests in the context of and, like I said
24 before, the reason why the Siting Board cares

1 about cost is because it cares about cost to
2 customers and the like.

3 So based on our experience on Phases 1
4 and 2 with the Siting Board and the ultimate --
5 how that all, as great as that turned out
6 publicly, and the company was happy to do it and
7 glad it worked out, but in making that
8 calculation for Phase 3, we just can't justify it
9 to the Siting Board. And we don't expect that we
10 would be able to prove to the Siting Board that
11 it would be something that the Siting Board could
12 approve.

13 And in light of the fact of how
14 important the project is to the Cape, you know,
15 we're here today on this alignment, and we're,
16 you know, we're going to be working with the
17 towns through the street-opening permits. And I
18 think based on what we've heard here from Paul
19 today, I think there's room for some legitimate
20 further conversations that we can have in that
21 permitting process.

22 MR. ROYDEN RICHARDSON: Just one
23 follow-up comment. You know, we're finding this
24 out at this point of the proceedings. I would be

1 interested to know whether or not your company
2 has sat down and talked with people in the towns
3 about what your liabilities and all the problems
4 you might have with them and have a nice, good
5 conversation.

6 MR. MICHAEL KOEHLER: Lots of times.

7 MR. ROYDEN RICHARDSON: Because if we
8 didn't have the land, you wouldn't have your
9 pipeline, you know, and that's -- I just think
10 that at this day and age we need to work things
11 out and not get to this kind of place.

12 Thank you.

13 MS. JOY BROOKSHIRE: I don't really
14 feel comfortable voting on this today. I think,
15 and I was here when you brought forth the Mid-
16 Cape center project, and I totally support the
17 extension. And as a gas customer, I appreciate
18 what you're doing, but I think you need to have
19 that conversation.

20 I'd like to take a couple of weeks and
21 have you meet with the town, and I'd like to see
22 you meet with the abutters, and I'd like to have
23 you have our staff in those meetings and see if
24 you can work something out. Because when you

1 were doing the Mid-Cape project, it started with
2 an under the road and it ended up under the
3 ground, and you planted new trees; you reduced
4 the visibility from the Service Road. You
5 addressed the concerns of the abutters, and it
6 turned out to be a great project. So, I'd like
7 to see that happen here.

8 Mr. PAUL NIEDZWIECKI: Thank you, Mr.
9 Chair. I just would like the opportunity to put
10 some of the Commission's relationship with
11 National Grid in context. When we ran into this
12 issue about reliable gas provision, which is an
13 undeniable sort of regional issue, we worked with
14 National Grid to make sure that everybody was
15 involved, all the towns were at the table to work
16 out that moratorium so that it had the least
17 impact on the residents of Barnstable County. And
18 they were great to work with through that
19 process.

20 The Cape Cod Commission's relationship
21 with National Grid goes back to its predecessors,
22 and this is an ongoing regulatory relationship
23 past, present, and future. What's in front of
24 you today is a specific request that it come to

1 the process for an exemption. It's been reviewed
2 by staff.

3 The issues raised by both the town of
4 Barnstable and the town of Yarmouth are important
5 issues, and, you know, I certainly stand with
6 those towns on those issues and would like to see
7 those issues addressed. But there may be a
8 potential conflation of these issues, the bike
9 path versus the expansion of the pipeline.

10 But if there are impacts based on the
11 design proposed, then we stand with the town of
12 Sandwich on that. And the issue of the bike path
13 is an important regional issue.

14 The point is whether we should be
15 discussing that today as part of this request for
16 an exemption. So what I will offer, and I think
17 it was requested earlier, is that the Cape Cod
18 Commission staff will facilitate or participate
19 in any way requested with both the towns of
20 Barnstable and the town of Sandwich in
21 discussions with National Grid about this issue
22 as it enters into the local process, and they go
23 through road opening permits and any sort of
24 potential appeals of those permits.

1 And just, I think, the Commission
2 should be able to bring to those discussions not
3 just a familiarity with this exemption and with
4 National Grid and with the gas issue, but also an
5 extensive understanding of the effort to have a
6 Cape-wide bike path and maybe other potential
7 funding sources associated with that.

8 So I think we could probably have
9 constructed discussions. I think there are local
10 processes that still are yet to play out where we
11 can be supportive of the towns and their efforts
12 to get a better resolution of both of these
13 issues.

14 But I will remind the Commission of our
15 past dealings with the EFSB, and I would always
16 rather have those entities that have the ability
17 to appeal our decisions to the EFSB at the table
18 working cooperatively with us instead of just
19 ignoring us altogether.

20 So those are my comments. I hope that
21 provides some context for today's vote.

22 MR. MICHAEL KOEHLER: Commissioner
23 Brookshire, if I may? I just want to refer to --
24 on this point of collaboration, I want to point

1 out there's a table in our application where we
2 list out on this, specific to this phase, the
3 amount of back-and-forth and the number of
4 meeting is Table 2.2 that's on page 6 of Section
5 2 of our application.

6 But starting from back last April 2016,
7 the companies have had extensive conversations.
8 So it is something that the company take
9 seriously of working collaboratively with the
10 towns and will continue to do so during the
11 street-opening permit process.

12 CHAIR HAROLD MITCHELL: I'm going to
13 take a minute and speak real quick. I actually
14 started the Bike Committee in Sandwich. I
15 actually spearheaded the bike-path trail up the
16 Service Road. I actually petitioned the
17 Department of Transportation to put that as a
18 priority project. I'm actually co-chair of the
19 MPO, Metropolitan Planning Organization
20 Committee, as Chairman of this, and I see the
21 priority that the town has placed on the Service
22 Road.

23 I worked with Paul Tilton on this
24 project for years, and I understand his desire,

1 and the town of Sandwich's desire, and
2 Barnstable's desire to complete this bike trail.

3 That being said, I also look at this
4 project that we're looking at today as a DRI
5 Exemption and listen to our staff and understand
6 that the two don't gel together. And although
7 you're going to move forward, I will stress with
8 all my heart that we need to get together and
9 figure this out. And it's nice to know that the
10 Commission will have a part in that.

11 But I think it's important as the
12 Commissioners know that we're dealing with two
13 different ideas here. And as Jon has said
14 earlier on, they're not related.

15 So I think we need to keep that in mind
16 as we're looking at the DRI Exemption. I think
17 we need to understand that the towns will still
18 have their say on this and will be working hard
19 to connect that bike trail as there's not a
20 person in this room that really doesn't want to
21 see that. And I think that we should, at this
22 point, start closing up this and let's make our
23 vote.

24 VICE CHAIR JOHN MCCORMACK, JR.: Mr.

1 Chairman, if I may? I move to close the public
2 hearing.

3 MR. MICHAEL SKELLEY: Second.

4 CHAIR HAROLD MITCHELL: I have a motion
5 and a second to close the public hearing. Anyone
6 have an objection? So I'll take a vote; all in
7 favor?

8 COMMISSION MEMBERS: Aye.

9 CHAIR HAROLD MITCHELL: Any opposed?

10 MS. JOY BROOKSHIRE: (Raised hand.)

11 CHAIR HAROLD MITCHELL: I have one
12 opposed. So, at this time, I'll take a motion to
13 either adopt the draft written DRI Exemption
14 decision and grant the requested DRI Exemption
15 for Phase 3 of the Sagamore Line Reinforcement
16 Project's Western Segment.

17 VICE CHAIR JOHN MCCORMACK, JR.: So
18 moved.

19 CHAIR HAROLD MITCHELL: I have a
20 motion. Do I have a second?

21 MR. RICHARD CONRON: Second.

22 CHAIR HAROLD MITCHELL: I have a
23 second. All in favor, please say "Aye."

24 COMMISSION MEMBERS: Aye.

1 CHAIR HAROLD MITCHELL: Any opposed? I
2 see one.

3 MR. ROYDEN RICHARDSON: I think I'm
4 opposed only because I think we ought to get
5 together before we go forward any further or
6 we'll be left holding --

7 CHAIR HAROLD MITCHELL: I think the
8 towns will do that, Royden; I do. And I think
9 from Paul's comments, we can all feel secure to
10 know that that will be happening. So, I will
11 take your no vote on this.

12 MS. BROOKSHIRE: And I'm a no.

13 CHAIR HAROLD MITCHELL: And I have --

14 MR. ROYDEN RICHARDSON: I'm in favor of
15 the pipeline. I'm in favor of better cooperation
16 between the, you know, groups involved.

17 CHAIR HAROLD MITCHELL: I understand.
18 So we have two no votes, everyone else saying
19 aye, so the motion passes.

20 Thank you, very much.

21 (Motion passed.)

22

23

24

PUBLIC HEARING:

Yarmouth Growth Incentive Zone Term Extension

1
2
3 CHAIR HAROLD MITCHELL: Moving on to
4 our second item on the agenda, the Yarmouth
5 Growth Incentive Zone. The Cape Cod Commission
6 will conduct a public hearing on and consider a
7 request by the town of Yarmouth to extend the
8 term of its designated Route 28 corridor Growth
9 Incentive Zone, a GIZ, for an additional four
10 years to October 22, 2021.

11 Anyone wishing to testify orally will
12 be welcomed to do so. Written comments may be
13 submitted at the hearing.

14 At this time, I'll ask for the town of
15 Yarmouth to present to us, please.

16 MS. KAREN GREENE: Good afternoon. My
17 name is Karen Greene. I'm the Director of
18 Community Development for the town of Yarmouth.
19 I'm joined today by a couple of our Planning
20 Board members are here and our Town Planner Kathy
21 Williams as well.

22 As most of you know because its 10
23 years now, and a lot of you were here back then
24 and I was here back then. It's hard to believe.

1 But as you know, Yarmouth is always working on
2 ways to encourage redevelopment on Route 28. As
3 a way to encourage investment in the
4 redevelopment on our Route 28 motel properties,
5 the town voted in 2006 to adopt what we call the
6 "Motel Bylaw." The motel bylaw allows property
7 owners to redevelop their motel properties as
8 motels, multi-family housing with an affordable
9 component, or as mixed-use, commercial and
10 residential. All projects are subject to our
11 design review requirements.

12 In 2007, understanding additional
13 incentives were necessary to stimulate the
14 investment we were looking for, the town applied
15 to the Cape Cod Commission for a Growth Incentive
16 Zone designation that's applicable to most --
17 almost all of our Route 28 motel properties. In
18 October 2007 that application was approved.

19 Over the last 10 years with the GIZ in
20 place, we've continued to refine our local bylaws
21 to add local incentives and to improve the
22 quality of the development and have seen some
23 utilization of the town's motel bylaw as well as
24 the Growth Incentive Zone.

1 We've had some large-scale success, the
2 Hampton Inn broke ground almost immediately after
3 the Growth Incentive Zone was adopted. That was
4 the Cape's first new hotel in 25 years. It was a
5 big deal.

6 We've had some smaller scale successes,
7 some that probably wouldn't have even tripped the
8 thresholds for the Cape Cod Commission review,
9 but I think having the GIZ in place has helped to
10 send the message that we're looking for
11 redevelopment and we're open to redevelopment.

12 Captain Gadcliff is a smaller -- was a
13 smaller motel. They created 24 housing units, 7
14 of those were affordable. The Windrift, we call
15 it our mixed-use success, they ended up creating
16 8 housing units, 2 of which were affordable and
17 retaining part of their motel business on the
18 property.

19 Recently, through our Affordable
20 Housing Trust and utilizing CPA funds
21 appropriated by Town Meeting for the affordable
22 housing component of motel redevelopment, we've
23 been able to incentivize some potential projects.
24 Two proposals that are in the cue are 69 units of

1 housing at 881 Route 28, that's the former
2 Cavalier Motel, and 40 units of housing proposed
3 for 497 Route 28, the Yarmouth Gardens.

4 Just by way of information, Yarmouth
5 Gardens is the oldest motel on Route 28. It was
6 built in 1935. So we're real excited about the
7 possibility of redevelopment.

8 Both of these projects will provide
9 improved wastewater treatment via a wastewater
10 treatment facility at 881 or an IA system at 497
11 Route 28. Since 2007, the Yarmouth Board of
12 Selectmen have continued to focus on town-wide
13 wastewater solutions that are effective and
14 economical, and Route 28 will continue to be a
15 priority.

16 Unfortunately, and fast-forwarding ten
17 years, we haven't seen as much progress as we'd
18 like. The economic downturn in the mid-2000s
19 really made things difficult. Only now in the
20 last year have we seen substantial interest
21 coming forward in our motel properties. A four-
22 year, as-is extension of our Growth Incentive
23 Zone will allow the projects that are in the cue
24 as well as those that are percolating to move

1 forward.

2 We picked the four-year request because
3 we felt it was short enough to really kind of
4 keep the heat on and move things along quickly
5 but long enough to help us -- long enough to give
6 us enough time to start planning the next phase
7 of our Growth Incentive Zone, which would likely
8 have a broader focus beyond just our motel
9 properties.

10 We've already begun to discuss this
11 topic and are happy to report that we'll be
12 kicking these efforts off the planning for the
13 next phase next month through the Urban Land
14 Institute's Technical Assistance Program. It's
15 something that we'll be calling on Commission
16 staff to help us with.

17 So, I am being brief today. Thank you
18 for considering the request. Again, it's 10
19 years. I can't believe it's come and gone, and
20 I'm happy to answer any questions that you have.

21 CHAIR HAROLD MITCHELL: Thank you.

22 MS. KAREN GREENE: You're welcome.

23 CHAIR HAROLD MITCHELL: At this time,
24 we'll have a presentation by the Commission

1 staff. Thank you.

2 MR. JON IDMAN: Thank you. Jon Idman,
3 again. Staff supports the extension request and
4 has prepared a draft decision for your
5 consideration. Commission recommends granting
6 the extension and adopting that draft decision.

7 Staff's opinion is that the town has
8 met the requirements of the existing Growth
9 Incentive Zone decision and the Growth Incentive
10 Zone regulations sufficient to approve their
11 request of extension.

12 The extension would further the major
13 purposes of the GIZ, which are to improve the
14 character along the Route 28 corridor in Yarmouth
15 to update the existing accommodation stock and to
16 create housing and affordable housing
17 opportunities. The town, consistent with the
18 Growth Incentive Zone decision, as made some very
19 good changes into zoning to further these
20 purposes. Copies of the zoning changes have been
21 provided in your materials. The town has
22 developed and adopted stormwater management
23 regulations within the corridor.

24 And, finally, according to that

1 decision, the town has tracked development within
2 the Growth Incentive Zone, including traffic and
3 wastewater from that development and has reported
4 those numbers to the Commission. A copy of that
5 report is in your materials as well.

6 The zoning is especially impressive.
7 It really does create better sight and building
8 design controls in the corridor and encourages
9 housing and affordable housing in that area.

10 Though the Growth Incentive Zone maybe
11 hasn't been as successful as the town has wanted
12 it to be for the entirety of the duration of the
13 GIZ, it has spurred appropriate development
14 particularly as it was intended to do.

15 It's because this development activity
16 has been initiated according to the GIZ and is
17 ongoing that the town seeks this extension.
18 Really, the extension is for four years, and it
19 is necessary to keep the same assumptions in
20 place under which these projects which were
21 ongoing were both designed and permitted,
22 including those revised DRI thresholds that were
23 adopted pursuant to the Growth Incentive Zone.

24 This is really similar to what

1 Barnstable has done about maybe a year and a half
2 ago/two years now, Barnstable came to the
3 Commission board and asked for a short-term
4 extension. It's similar to what Yarmouth is
5 doing because both towns, both with expiring GIZs
6 and both seeking extensions or sought an
7 extension are looking to do a new GIZ, building
8 on the existing GIZ but broadening it to some
9 degree. Like I said about Yarmouth, their Growth
10 Incentive Zone really focuses on older motel and
11 hotel stock in the area. Their new GIZ is going
12 to look to kind of have a broader focus within
13 the Route 28 corridor, broader than just motel
14 and hotel properties.

15 We've gotten some letters in support
16 for the Growth Incentive Zone extension in the
17 record, and you have copies of those letters.
18 One was from the Yarmouth EDC, another was from
19 the Yarmouth Housing Trust, and there were two
20 from those who are developing housing within the
21 Growth Incentive Zone from Dakota Partners and
22 from Commonwealth Community Developers.

23 So, with that, I will end, and I would
24 be happy to try to answer any of your questions

1 you might have as they might arise.

2 Thank you.

3 CHAIR HAROLD MITCHELL: Thank you, Jon.
4 We'll start with any opening questions for the
5 first round of questions for the Commissioners.

6 Yes, Elizabeth.

7 MS. ELIZABETH TAYLOR: This is either a
8 question for Yarmouth or for Jonathan. Are you
9 getting SHI credit for these? They're all
10 rentals; am I correct? None of them turned into
11 condos or private ownership?

12 MS. KAREN GREENE: No. All of these
13 have been rentals, so in the case where they
14 aren't -- the new projects that are coming
15 forward are also looking to access low income
16 housing tax credits. Those projects will be
17 close to a hundred percent affordable.

18 The smaller projects that I referenced
19 were about 25 percent affordable, and as a rental
20 project, they all count for the SHI.

21 MS. ELIZABETH TAYLOR: That's what I
22 was hoping. It's nice to see that you're making
23 good progress on that.

24 MS. KAREN GREENE: Thank you.

1 MS. ELIZABETH TAYLOR: Has the town
2 incentivized this tax wise or what are you doing
3 to create an incentive for an owner to actually
4 do this, increase the number of affordable units?

5 MS. KAREN GREENE: So, with the two
6 larger projects that have come forward, the
7 towns' Affordable Housing Trust made request to
8 Town Meeting through CPA funds, and the town's
9 actually set aside more than \$3 million for the
10 purpose. That's a lot of money.

11 MS. ELIZABETH TAYLOR: You way ahead of
12 us. That's great. Thank you, very much.

13 MS. KAREN GREENE: You're welcome.

14 CHAIR HAROLD MITCHELL: Thank you. Any
15 other questions in the first round?

16 VICE CHAIR JOHN MCCORMACK, JR.: Just a
17 comment, Mr. Chairman, if I may? I want to
18 reiterate what the Director of Community
19 Development, Karen Greene, stated and that was
20 the fact that this GIZ began in 2007. And I
21 think everyone here should recognize the fact
22 that 2007 was not a good year to start anything.
23 We rapidly went into a recession that really
24 killed the economy. And that's why we're looking

1 for an extension.

2 Thank you.

3 CHAIR HAROLD MITCHELL: Thank you. At
4 this time, I'll open the podium for anyone that
5 would like to speak on this. I'll start out with
6 any federal, state, or local officials. Seeing
7 none. Any of the general public that would like
8 to speak to this? Seeing none.

9 Then I will ask for any final questions
10 or comments from the Commissioners?

11 VICE CHAIR JOHN MCCORMACK, JR.: If I
12 may, Mr. Chairman; I'd like to recognize not only
13 Director of Community Development, Karen Greene,
14 but the Town Planner Kathy Williams is here; the
15 Chairman of the Planning Board, Norm Weare, and
16 two members of the Planning Board with him,
17 Joanne Crowley and Tom Baron.

18 Thank you.

19 CHAIR HAROLD MITCHELL: Our Yarmouth
20 representative is making it known. (Laughter.)
21 Anyone else?

22 So at this time, I will take a motion
23 to close the public hearing.

24 VICE CHAIR JOHN MCCORMACK, JR.: So

1 moved.

2 MS. ELIZABETH TAYLOR: Second.

3 CHAIR HAROLD MITCHELL: I have a motion
4 and a second. All in favor?

5 COMMISSION MEMBERS: Aye.

6 CHAIR HAROLD MITCHELL: Any opposed?

7 (Motion passed.)

8 CHAIR HAROLD MITCHELL: So at this time
9 now, I will take a motion to adopt the Draft
10 Written Yarmouth Route 28 Corridor Growth
11 Incentive Zone Extension Decision and grant the
12 request of the extension for an additional four
13 years until October 22, 2021.

14 VICE CHAIR JOHN MCCORMACK, JR.: So
15 moved.

16 (Secinded.)

17 CHAIR HAROLD MITCHELL: I have a motion
18 and a second. All in favor?

19 COMMITTEE MEMBERS: Aye.

20 CHAIR HAROLD MITCHELL: Any opposed?
21 Any abstentions? The motion carries.

22 (Motion passed.)

23

24

1 Mammal Protection Act and how it relates to
2 states. I just want to preface that I am not an
3 MMPA expert, and I'm not a seal expert. In my
4 work for the state, I am a generalist, except
5 when it comes to Right whales. I have to know
6 absolutely everything there is to know about
7 Right whales.

8 But other than that, I work on a number
9 of different issues and serve as a subject matter
10 expert for the state and policy and management.
11 I'm not on the field as much as I used to be, so
12 that's my story.

13 But I'm going to give you an overview
14 of the MMPA and tell you what's possible for
15 states, what has actually happened and, you know,
16 what sort of room -- wiggle room a state has. I
17 assume you guys want to hear about seals too, so
18 we'll talk about that.

19 So, back in the early 70s, a bunch of
20 conservation and environmental acts came into
21 play. One of which was the Marine Mammal
22 Protection Act in 1972, and it was in response to
23 significant declines in some marine mammal stocks
24 and concern that those stocks were going to keep

1 declining and not be in existence anymore or be
2 functioning parts of that ecosystem.

3 So the MMPA prohibited the take of
4 marine mammals in U.S. waters, and they define
5 take pretty broadly as capture, kill, hunt, or
6 harass. They also introduced a concept called
7 OSP, which is what they wanted to maintain under
8 the MMPA, which is the Optimum Sustainable
9 Population, which is a pretty lofty goal. It's
10 actually the maximum productivity that a
11 population can have. So not just, which we'll
12 talk a little bit more, that you won't go
13 extinct; it's that like you are producing on all
14 cylinders and, you know, at the time, there was a
15 lot of public outcry to what was happening with
16 marine mammal populations. And so I think some
17 of the force behind the MMPA is a result of that
18 whaling and tuna seine netting on pods, dolphins,
19 and things. So the goal was to restore these
20 depleted stocks and then also reduce serious
21 injury and mortality in commercial fisheries.

22 Now when you compare this to the
23 Endangered Species Act, which was enacted in
24 1973, that is a little more straightforward, you

1 know, prevent extinction, recover the stocks, and
2 once the stock is good, you know, you pull those
3 protections off and the population goes on its
4 way.

5 That's not really how the MMPA is set
6 up, and there are some species that are obviously
7 protected under the MMPA but are also listed
8 under the ESA, like the Right whale.

9 So the MMPA was unique in its goal of
10 having a healthy ecosystem function and marine
11 mammals being a part of that. So they managed,
12 as I said based on OSP, and there is not any
13 mechanism to remove any of those protections for
14 marine mammals or remove those animals from the
15 Act.

16 So one thing that makes us think of is
17 seals, of course, because they're a species that
18 has, you know, recovered/proliferated quite well
19 in U.S. waters or in Massachusetts because of the
20 protections afforded by the Act.

21 So the Humpbacks were recently delisted
22 from the Endangered Species Act, which is
23 actually really controversial. There's a lot of
24 people that think that that shouldn't have

1 occurred that way. But, you know, we aren't at a
2 point where Humpback whales are like such a
3 nuisance and are just like eating all the fish
4 and getting in everyone's way. Seals is sort of
5 a different story. I think some of it is
6 warranted and some of it is just backlash. We
7 didn't have the species in our water as part of
8 our local ecology for a few generations.

9 You guys may know some of this, but
10 there was a bounty on Grey seals in Massachusetts
11 until 1962. In a recent study by Duke University
12 and others using Google Earth and some radio
13 telemetry, they figured there was around 30 to
14 50,000 seals currently in Massachusetts.

15 Now the majority of those come from
16 Canada. The majority of the Northwest Atlantic
17 Grey Seal stock lives on Sable Island in Canada,
18 and that is the source of the population in the
19 U.S. When they look at the genetics of the
20 Canadian stock and the U.S. stock, they're the
21 same. There's no difference.

22 So we don't have the good sense of the
23 emigration and immigration and the movement
24 between those two populations or those two

1 colonies, I would say, which makes it complicated
2 when you talk about any kind of culling or
3 removal program.

4 The Canadian population was reproducing
5 at 12 percent a year which they believe is OSP,
6 that is the max, and I think that was too much
7 for that population to handle, so it's now gone
8 down to reproducing at about 4.5 percent a year.

9 Now the rate of the increase of the
10 U.S. population or the population in
11 Massachusetts is not known. The feds have not --
12 the way they've explained it is they don't have
13 the money to do this work, which we'll talk a
14 little bit more about. I'm sure there's a grad
15 student that would love to take care of it for
16 them but that's just my opinion.

17 So some of the concerns that we hear
18 about seals in Massachusetts, I'm sure these are
19 familiar to you as well as depredation of fishing
20 gear by seals, stealing catch. You know, I used
21 to be an observer on gill net boats out of New
22 Hampshire back in the like dark ages of
23 observing, and we would have some nets that would
24 come up and all the bellies of the Cod would be

1 ripped out by the seals.

2 And another concern is, obviously,
3 competition for fish resources, just seals eating
4 too much, being competitors, not just sort of
5 thieves; infection of Cod with seal worm;
6 attracting sharks to Massachusetts waters. Some
7 people talk about water quality issues but
8 studies have shown that the seals are not
9 affecting the water quality in the beaches around
10 their haul-out sites.

11 So given there's so much unknown about
12 the seal population in general and what their
13 ecology is and their foraging behavior so the
14 true impact of seals on our local ecosystem is
15 still very unknown.

16 Some of the things that people talk
17 about a lot since -- if you look at the Stock
18 Assessment Report for the Grey seal that the feds
19 put out, they don't have a minimum population
20 estimate, and they don't have an estimate for the
21 trend in the population. And the explanation for
22 that is that the aerial surveys haven't taken
23 place so they can't get an abundance estimate,
24 and they can't get an estimate on trend.

1 So there's sort of a funding issue with
2 looking at a population that, you know, with the
3 Right whale and the Humpback whale, they have
4 been trying to prevent them from going extinct.
5 And so, of course, money gets thrown at them.
6 You have a species that isn't in danger; it's not
7 a big deal, you know, as far as like their
8 extinction, and people aren't chomping at the bit
9 to spend money on it. Unfortunately, that's just
10 the way it is.

11 There's a lot that's not known about
12 residency patterns, if there's movement between
13 the U.S. and Canada foraging patterns how far
14 offshore these animals go; how long they spend
15 out there; how deep they dive; are they
16 overlapping with areas of commercial fishing?

17 It's also difficult to try to get a
18 handle on the actual diet of the seals. So we
19 have to build a prey library of fatty acids and
20 stable isotopes of all the different potential
21 prey species, get DNA and blubber samples from
22 the seals, do gut content and scat analysis for
23 the hard parts.

24 Some of this work is ongoing but it's

1 just starting, and its trophic dynamics are
2 really complex, so trying to figure out how the
3 seals are affecting fish stocks, and if we took
4 the seals away, you know, they've talked about
5 this in plenty of other places; Canada, you know,
6 Baltic sea, Irish sea, and it's really hard to
7 elucidate what is going on with these complex
8 systems and what would happen if you took the
9 seals away; if you would actually get the result
10 that you were looking for that, you know, Cod
11 would come back or whatever the end goal is.

12 So one of the questions that I hear a
13 lot is what role can the state play, given that
14 the MMPA's a federal law? So, clearly, it's a
15 federal jurisdiction and their rules go to the
16 beach. State rules can be more restrictive than
17 federal rules but not less. Before the feds
18 required sinking ground line in the lobster pot
19 fishery, Massachusetts had made it mandatory for
20 about four years prior to that because it was
21 important to us in Cape Cod Bay and from a Right
22 whale perspective, and we said, well, we don't
23 care if you guys aren't going to do it; we're
24 going to do it, and then the feds followed suit.

1 Now the MMPA does have a provision to
2 transfer authority for the management of the
3 species to the state, Section 109 under "Federal
4 Cooperation with States." And what that would
5 entail is the state developing a conservation
6 plan and any takes that occur would have to be
7 humane.

8 But one of the things that you have to
9 happen first, which is the real sticking point,
10 is that the state would have to use its resources
11 to determine where the population is relative to
12 OSP, which is something the feds haven't even had
13 the funds to do.

14 So the scope of that effort cost-wise,
15 logistics, and size of that program, and then you
16 also take on the legal responsibility for that
17 species as well. So just from a litigations
18 standpoint, it's incredibly risky.

19 So in reading about this, I was trying
20 to figure out who has done this? Who has, you
21 know, who have the feds said, you know, here you
22 go, take it, and it has never happened. So
23 Hawaii and Maine looked into do it and Alaska too
24 but, ultimately, I think the legal burden and the

1 financial burden was too much, and they decided
2 not to pursue it.

3 There's also Section 120 of the MMPA
4 deals with the Ballard Locks in Washington and
5 Gulf of Maine salmon aquaculture. So there's a
6 provision in there where the state can have
7 authority to deal with nuisance animals, not a
8 large-scale cull but dealing with nuisance
9 individuals. But that's separate from 109, which
10 is just the blanket transfer, here you go; you
11 want Grey seals, it's yours. You know, that's
12 completely different.

13 When you look at predator control
14 programs and the long history of their use in
15 wildlife management; in Europe, lynx and other
16 species in the U.S. for wolves and coyotes and
17 cougars, and there is, you know, sort of a
18 straight connection between shoot a bunch of
19 wolves and livestock in that area will be
20 protected. But sometimes the results are
21 straightforward. Some studies show coyote pups
22 actually have a higher survival rate when you're
23 killing the adults. Cougars will expand their
24 range if you're shooting them in areas. You're

1 sort of pushing the problem off into a different
2 region.

3 And in the case of seals, you know,
4 they looked into this in South Africa and doing a
5 cull but they found, based on fish stocks, impact
6 on fish stocks. And they found that when they
7 really studied the problem that they couldn't
8 figure out what the link was going to be, and it
9 didn't look like killing the seals was actually
10 going to help the fish stocks, and so they called
11 it off.

12 But I think the effectiveness of a
13 culling program is hard to understand. There
14 might be unintended consequences in the food
15 chain, and it's a program that would have to be
16 continued. And often, I was reading about
17 culling programs, they're talking about taking 50
18 percent of the population just out, which is a
19 lot.

20 And we, you know, you just take the
21 thought down the line and think about doing this
22 on Monomoy, you know you have to get rid of the
23 animals. You have to get them off the beach.
24 Just the scope of a program like this -- I think

1 when people talk about, you know, we need to cull
2 seals in Massachusetts, we really have to think
3 about the nitty-gritty details of what a program
4 like that would look like, even if it was easier
5 for the state to take control over that species.

6 When I talked to the feds about this
7 recently, there's a guidance document coming out
8 from NMFS about non-lethal deterrents. And when
9 I tried to get details from them about what that
10 was going to look like, they wouldn't give them
11 to me. So I don't know if it's going to be
12 acoustic deterrents or if it's going to be sort
13 of shooing them off the beach. They were very
14 tight-lipped about it like, oh, it will be
15 released soon. So I don't have more information
16 about that.

17 So, I'm not exactly sure what you guys
18 wanted to talk about today. I hope that sort of
19 covered it. But the real take-away points is
20 that it's federal act; there's limited ability
21 for the state to intervene; no one has ever done
22 it before, and if the state could take over
23 management authority of that species, the cost
24 and the scope of that program would be pretty

1 immense.

2 CHAIR HAROLD MITCHELL: Thank you. Any
3 of the Commissioners have any questions for Erin?
4 Then we might be able to narrow it down what we
5 were --

6 MR. MICHAEL SKELLEY: Well, I guess I'm
7 the culprit here. Mike Skelley; I'm from
8 Chatham.

9 MS. ERIN BURKE: Hi.

10 MR. MICHAEL SKELLEY: Hi. It is a
11 major problem for us. It's a major problem for
12 our fishing industry. There was an article in
13 the Cape Cod Times today that one seal eats six
14 striped bass a day that are (Indiscernible) being
15 taken. It's costing the towns on the Outer-Cape
16 money now just to warn people about sharks.

17 I'm not so sure I buy into the whole
18 concept of 50,000 seals defecating and urinating
19 in the water doesn't affect the quality of the
20 water.

21 MS. ERIN BURKE: Well, did you see the
22 WHOI study, what they did?

23 MR. MICHAEL SKELLEY: Pardon?

24 MS. ERIN BURKE: The Woods Hole study

1 that they did with the Department of Public
2 Health data, fecal coliform?

3 MR. MICHAEL SKELLEY: No, I haven't
4 read that. But, you know, some of these things
5 are a little -- I'm a little skeptical about how
6 these whole things came about. Obviously, you
7 stated it very well, Erin, and I appreciate that.
8 In the 70s, there was a great outcry for -- I
9 think they wanted to save whales.

10 MS. ERIN BURKE: Yeah.

11 MR. MICHAEL SKELLEY: I don't think
12 they wanted to save seals.

13 MS. ERIN BURKE: Right. Probably.

14 MR. MICHAEL SKELLEY: So one of the
15 things that I thought about is legislative
16 intent.

17 MS. ERIN BURKE: Uh-huh.

18 MR. MICHAEL SKELLEY: I don't think
19 either the House or the Senate, in its debate of
20 this bill, anticipated a problem in the Northwest
21 or the Northeast with fisheries.

22 MS. ERIN BURKE: Probably.

23 MR. MICHAEL SKELLEY: No, probably not.
24 And it probably didn't anticipate the fact that

1 it was going to cost the towns money and cost the
2 fishing industry money. And they certainly
3 didn't anticipate that we were going to have a
4 problem with Great White sharks.

5 So my view rather than taking a look at
6 that as trying to find holes in the legislation;
7 holes in the legislation through legislative
8 intent. The law was established in '72, I guess,
9 and it hasn't been tweaked since. And the
10 department of the feds, and I'm not saying the
11 state, the feds don't really intend to help us
12 tweak it.

13 MS. ERIN BURKE: It was tweaked in '94.
14 That's when take reduction teams came in. That
15 was when the part about incidental take and
16 fisheries. There are amendments in 1994 that
17 updated it for impact fisheries, establish take
18 reduction teams, but that was the last time.

19 MR. MICHAEL SKELLEY: Well, we have an
20 obvious -- we try to protect the striped bass
21 population, and we haven't done that really
22 because our nuisance is the seals.

23 We deal with the Cod situation, and we
24 say that we over-fish it sometimes. Well, maybe

1 we have, but it's still a problem with the seals.
2 I mean, 50,000 seals on the Cape is ridiculous,
3 and they're starting to come into the Sound now.

4 MS. ERIN BURKE: Uh-huh.

5 MR. MICHAEL SKELLEY: You know, when do
6 we have a hundred thousand seals that we have to
7 deal with?

8 MR. ROGER PUTNAM: If you watch the
9 seals on (Inaudible) fishing every damn day, you
10 know perfectly well that all the conversation
11 about what they're not doing is bunkum. The fish
12 are -- the seals are eating fish hand over
13 flipper.

14 MS. ERIN BURKE: And we need data, that
15 is the issue. And in Canada, they throw a lot of
16 money at their seal questions because seals are a
17 commodity. Recently, the EU banned seal products
18 in Europe, so I think that situation has changed,
19 but when I thought about why; why do they know so
20 much about seals in Canada because they harvest
21 them. We don't have that same situation here.

22 So, we need data to be able to say to
23 the feds this is what we're going to do and why,
24 and this is what the outcome is going to be. And

1 getting that data requires time and money.

2 MR. MICHAEL SKELLEY: Well, is there a
3 market for seal meat in Japan or in New York?

4 MS. ERIN BURKE: I don't think so.

5 MR. ROGER PUTNAM: In Japan there is.
6 In Japan, they do eat seal meat.

7 MS. ERIN BURKE: Seal meat.

8 MR. ROGER PUTNAM: Yeah.

9 MS. ERIN BURKE: I mean I don't even --
10 I don't know how/what sort of the processing of
11 seal meat in Canada, you know, how we would have
12 to even go about that.

13 MR. MICHAEL SKELLEY: Well, I don't
14 know if we would have to ask the government to
15 spend any money.

16 MS. ERIN BURKE: There's heavy metals
17 and --

18 MR. MICHAEL SKELLEY: And right where I
19 used to live was basically farm country, and we
20 had a lot of cows, a lot of dairy cows, in
21 Connecticut. And it was always talked about
22 after they stopped giving milk, you harvest the
23 stock. Very common, I mean it ends up at
24 McDonald's. And, right now, we have a stock that

1 if we found a market for that we could harvest --

2 MS. ERIN BURKE: I don't know that the
3 global market for seal meat is really powerful
4 though. And it's still a huge undertaking.
5 Let's just say we kill 50,000 of them, you know,
6 it's still a huge undertaking to do that out on
7 very sensitive land, National Wildlife Refuge.
8 Logistically, I think it would be tricky but --

9 MR. MICHAEL SKELLEY: So, in other
10 words, we really have no solution to this
11 problem?

12 MS. ERIN BURKE: Yeah.

13 MR. ROGER PUTNAM: Nor do we care.

14 MS. ERIN BURKE: No.

15 CHAIR HAROLD MITCHELL: Yeah, guys, if
16 we can move on with some other questions from
17 other people, that would be beneficial.

18 MS. ERIN BURKE: I don't think that
19 people don't care.

20 CHAIR HAROLD MITCHELL: I mean I'm
21 starting to see my hour here slipping away. So
22 if we could stick to some questions, I'd
23 appreciate it.

24 Thank you. Elizabeth, and then I'll go

1 to Jackie, and then I'll go to Kevin. Thank you.

2 MS. ELIZABETH TAYLOR: First of all, I
3 think that we are the problem relative to fish
4 stocks. The seals, they impinge on that, but we
5 have to face it, we are the problem.

6 Do we have any information on the seal
7 populations before they were allowed to be taken?

8 MS. ERIN BURKE: Historical --

9 MS. ELIZABETH TAYLOR: I assume there
10 were shark populations at that time, but we
11 didn't pay attention because there weren't that
12 many people in the water.

13 MS. ERIN BURKE: Probably. I've tried
14 to look into this and not been able to find a lot
15 of information. I mean Native Americans did
16 harvest them; we know that from historical
17 records.

18 MS. ELIZABETH TAYLOR: Yeah.

19 MS. ERIN BURKE: But there isn't a lot
20 that I've read about White sharks, but what the
21 historical population of the seals in
22 Massachusetts was, I haven't been able to find
23 any information on that.

24 MS. ELIZABETH TAYLOR: Yeah. We also

1 have to face the fact that as the water
2 temperature is changing, you get White sharks now
3 because they can heat their bodies. But as the
4 water warms up, we're going to get more Bull,
5 Silky, Thresher, you know, Blacktip, Whitetip,
6 any of them, Nurse sharks. And they'll be coming
7 up the coast, and we will have those to deal with
8 too. And they won't be here because of seals.
9 They'll be going after other populations.

10 So we have to start to live with the
11 complications because of the temperature of the
12 ocean warming up. And we have to start facing
13 all of those issues too, and I don't think that
14 culling seals is going to solve anything. If
15 we're doing it because we've got White sharks
16 here; it's their ocean, you know. Other areas
17 live with it; we have to learn to live with it.

18 Thank you.

19 CHAIR HAROLD MITCHELL: Jackie.

20 MS. JACQUELINE ETSTEN: What is the
21 impact of the industrialized fishing fleets that
22 are coming in quite close to the shore these
23 days, vis-à-vis the seal population?

24 MS. ERIN BURKE: What is the impact on

1 the seal population?

2 MS. JACQUELINE ETSTEN: Excuse me, on
3 the fishing -- on the fishing populations. I
4 can't even speak.

5 MS. ERIN BURKE: Oh gosh, I don't know.
6 I mean that makes me think -- I think, you know,
7 fishing in U.S. waters by foreign fleets I think
8 has diminished a lot since the 80s or the 70s
9 when they were doing that a lot, like big factory
10 trawlers. I mean, bycatch of seals in gill nets
11 is common but it's not, you know, enough. It's
12 not like, you know, the harbor porpoise was sort
13 of driving their population way down, or like we
14 see with Right whales where entanglement and pot
15 gear and gill net gear is actually a problem for
16 their fecundity and survival. You know, there is
17 (Indiscernible) seals but it isn't doing much to
18 impact them.

19 As far as fisheries taking foods sort
20 of out of the mouths of seals, I don't think that
21 that is occurring.

22 MS. JACQUELINE ETSTEN: No, I'm sorry.
23 I probably misspoke. I wanted to know what the
24 impact on the fish populations of the

1 industrialized fishing methods was, vis-à-vis the
2 seal consumption of fish?

3 MS. ERIN BURKE: I don't know. I'm
4 sorry.

5 MS. JACQUELINE ETSTEN: We had a talk
6 by somebody on herring. The speaker who seemed
7 to be an expert in herring seemed to believe that
8 the fishing was far more devastating on the
9 herring population than the seals.

10 MS. ERIN BURKE: Right. I've seen
11 studies like that.

12 MS. JACQUELINE ETSTEN: (Inaudible)
13 when you go forward.

14 MS. ERIN BURKE: Right. When you look
15 at what the mammal is taking out, whether its
16 harbor porpoise or a seal compared to what the
17 fishery is consuming, it's rather small. And
18 that sometime in herring management, like they --
19 I heard people talk about wanting to make sure
20 that they set aside some allotment specifically
21 for the harbor porpoise or some other marine
22 mammal that really needs that stock.

23 CHAIR HAROLD MITCHELL: Thank you. I'm
24 going to have one more question due to the hour.

1 With one more item still on the agenda, I need a
2 quorum for. We're going to take one more
3 question from Kevin.

4 And, Erin, I appreciate your time.
5 We're going to move on. Thank you.

6 MR. KEVIN GRUNWALD: And I'm going to
7 defer in the interest of time.

8 CHAIR HAROLD MITCHELL: All right.
9 Erin, thank you, very much.

10 MS. ERIN BURKE: Thank you.

11 CHAIR HAROLD MITCHELL: It was very
12 informative and we appreciate your time.

13 MS. ERIN BURKE: Take care.

14 CHAIR HAROLD MITCHELL: Appreciate
15 that. Moving on.

16

17

18

19

20

21

22

23

24

1 shall be reviewed for its consistency with
2 Section 2 and Sections 8 herein, and with the
3 goals of the RPP in effect at the time of the
4 extension. Such extension shall be in addition
5 to any extensions requested by town and granted
6 by the Commission.

7 So, at this time, I would ask --

8 MR. ROYDEN RICHARDSON: So moved.

9 CHAIR HAROLD MITCHELL: Well, I think a
10 presentation by the Commission staff.

11 MS. KRISTY SENATORI: Thank you, Mr.
12 Chair. Kristy Senatori, Deputy Director with the
13 Commission. And given the late hour, I certainly
14 will be brief.

15 But as the Chair pointed out, this is a
16 minor amendment to Chapter G, which is our Growth
17 Incentive Zone Regulations. We have currently
18 three approved Growth Incentive Zones. We have
19 one in that you heard about today in Yarmouth.
20 We have another in Buzzards Bay, and then a third
21 in Hyannis, which you've also heard about in the
22 recent months.

23 So, currently, each Growth Incentive
24 Zone, as you heard in the case of Yarmouth, has

1 an expiration date. And this is actually proving
2 somewhat problematic in some of these Growth
3 Incentive Zones. And as Commissioner McCormack
4 pointed out, 10 years isn't necessarily enough
5 time to realize the cumulative thresholds that
6 exist within these Growth Incentive Zones.

7 So the modification before you allows a
8 180-day extension in time to the GIZ decision.
9 It does not have any effect on the threshold. It
10 doesn't have any effect on any of the other
11 provisions in the Growth Incentive Zones'
12 decisions themselves.

13 But this is particularly important
14 especially in the case of Hyannis and where a
15 staff-level process has already begun with the
16 town of Barnstable staff and Cape Cod Commission
17 staff in contemplating a new Growth Incentive
18 Zone.

19 So this short timeframe extension to
20 the Growth Incentive Zone decision will allow the
21 Commission to work with the town to put forward a
22 new application for a Growth Incentive Zone and
23 follow the public hearing process that's required
24 at the local level and then, ultimately, through

1 the Commission hearing process.

2 We are anticipating a larger set of
3 regulation changes coming before the Commission
4 in the next coming several months. And so this
5 is just the first of those. This is just a small
6 minor amendment that we would need to do in
7 advance of some of those larger regs amendments.

8 So, I'm happy to answer any questions
9 if you have any and thank you.

10 CHAIR HAROLD MITCHELL: Any questions
11 from the Commissioners at this time?

12 MS. JACQUELINE ETSTEN: Does this
13 immediately affect the Hyannis GIZ?

14 MS. KRISTY SENATORI: We could extend
15 the Hyannis Growth Incentive Zone if you vote
16 this approval today.

17 MS. JACQUELINE ETSTEN: I'm sorry?
18 You --

19 MS. KRISTY SENATORI: We will be able
20 to extend the Hyannis Growth Incentive Zone by
21 180 days.

22 MS. JACQUELINE ETSTEN: Well, I
23 expressed concern with the type of development
24 that is occurring in Hyannis under the GIZ at

1 present, and I'd ask that that be on the agenda
2 for review and discussion and it hasn't occurred.

3 So I would be opposed to this
4 extension.

5 MS. KRISTY SENATORI: I think what
6 you're mentioning for growth that's happened or
7 is anticipated to happen under the Growth
8 Incentive Zone is something that we're looking at
9 as the new Growth Incentive Zone. So we're not
10 modifying anything currently but anticipating a
11 new Growth Incentive Zone, which could address
12 some of your issues.

13 CHAIR HAROLD MITCHELL: Okay. Any
14 other questions?

15 MR. RICHARD ROY: Does this go forward
16 if we vote on it today or does this have to go
17 before the Assembly?

18 Ms. KRISTY SENATORI: This would go to
19 the Assembly of Delegates for approval.

20 MR. RICHARD ROY: Okay. Thank you.

21 CHAIR HAROLD MITCHELL: Any other
22 questions? Any public comments? Okay. Any
23 final comments by the Commissioners? Then I'll
24 take a motion to close the public hearing.

1 COMMISSION MEMBERS: So moved.

2 CHAIR HAROLD MITCHELL: There's a lot
3 of those. I'll take a second.

4 (Secoded.)

5 CHAIR HAROLD MITCHELL: Thank you. All
6 in favor, say "Aye."

7 COMMISSION MEMBERS: Aye.

8 CHAIR HAROLD MITCHELL: Any opposed?

9 MS. JACQUELINE ETSTEN: No.

10 CHAIR HAROLD MITCHELL: Any
11 abstentions?

12 MS. JACQUELINE ETSTEN: No, not an
13 abstention, a no.

14 CHAIR HAROLD MITCHELL: Yes. So at
15 this time, I'll take a motion to submit as a
16 draft the proposal amendment to Section 11
17 Duration of the Growth Incentive Zone Regulations
18 Chapter G of the Code of the Cape Cod Commission
19 to the Assembly of Delegates for adoption by
20 ordinance.

21 A motion?

22 MR. RICHARD ROY: So moved.

23 CHAIR HAROLD MITCHELL: I have a
24 motion. Do I have a second?

1 MR. JOHN HARRIS: Second.

2 CHAIR HAROLD MITCHELL: I have a
3 second. All in favor?

4 COMMISSION MEMBERS: Aye.

5 CHAIR HAROLD MITCHELL: Any opposed?
6 Any abstentions? It passes. Thank you, very
7 much.

8 (Motion passed.)

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

1

Commission Meeting concluded at

2

5:01 p.m.)

C E R T I F I C A T E

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF BARNSTABLE, SS

I, Linda L. Wesson, a Certified Verbatim Reporter and Notary Public in and for the Commonwealth of Massachusetts, do hereby certify that the foregoing volume is a true and accurate transcript, prepared to the best of my ability, of the Cape Cod Commission Hearing, which was held on Thursday, September 14, 2017, at the First District Courthouse, Assembly of Delegates Chambers, 3195 Main Street, Barnstable, Massachusetts.

10/2/17

Date

Linda L. Wesson, CVR, ACT

Notary Public

My Commission Expires: June 3, 2022

\$

\$120,000 [1] 51:6
\$15 [11] 42:2 47:2 48:22,24 49:1,2,5,17
 53:19 55:14 56:12
\$3 [1] 80:9
\$4,000 [1] 51:11
\$7.1 [1] 51:2
\$960,000 [1] 51:18

0

02562 [1] 1:21

1

1 [13] 15:10 17:14 21:12 22:1 39:10,15,19
 40:19 45:24 50:24 55:22 57:9 62:3
1.8 [1] 15:12
10 [9] 13:12 14:17 30:6 39:11 54:20 71:
 22 72:19 75:18 109:4
100 [1] 36:22
107 [1] 3:10
109 [2] 92:3 93:9
10-year [1] 14:4
11 [2] 53:23 112:16
114 [1] 3:13
12 [2] 31:18 88:5
120 [1] 93:3
12-inch [3] 31:16,19,20
130 [3] 21:24 55:14,16
14 [3] 1:10 4:4 116:9
15 [4] 1:20 13:12 17:19 20:19
17 [1] 21:21
180 [3] 107:15,24 110:21
180-day [1] 109:8
192 [2] 36:10,21
1935 [1] 74:6
1962 [1] 87:11
1972 [1] 84:22
1973 [1] 85:24
1994 [1] 98:16

2

2 [16] 15:10 17:14 21:12 39:10,16,19 40:
 19 45:24 50:15 51:1 55:22 57:9 62:4 67:5
 73:16 108:2
2.2 [6] 8:13 15:5 17:7 18:22 34:18 67:4
20 [2] 18:1 30:10
2005 [1] 13:4
2006 [3] 10:18 24:14 72:5
2007 [5] 72:12,18 74:11 80:20,22
2016 [1] 67:6
2017 [4] 1:10 4:4 6:20 116:10
2019 [1] 38:6
2021 [2] 71:10 82:13
2022 [3] 40:14 56:10 116:16
20-inch [4] 15:5 17:7 31:18,20
22 [2] 71:10 82:13

220 [1] 36:15
24 [1] 73:13
25 [2] 73:4 79:19
28 [12] 71:8 72:2,4,17 74:1,3,5,11,14 76:
 14 78:13 82:10

3

3 [20] 1:6 3:5 6:20 8:3,10 15:4 39:11,18
 40:21 41:2 50:22 54:9,12 55:11,19 56:20
 57:11 62:8 69:15 116:16
3:00 [2] 1:17 4:2
30 [1] 87:13
30-inch [1] 31:11
31.8 [2] 36:10,22
3195 [2] 1:15 116:11

4

4.4 [2] 34:19 56:4
4.5 [1] 88:8
4/10 [2] 15:11 17:8
40 [1] 74:2
42-mile-long [1] 14:7
497 [2] 74:3,10

5

5 [1] 54:20
5.5 [1] 50:17
5:01 [1] 115:2
50 [1] 94:17
50,000 [4] 87:14 96:18 99:2 101:5
508 [1] 1:22
50-person [1] 13:1

6

6 [3] 18:9 19:16 67:4
69 [1] 73:24
6a [2] 28:16,20

7

7 [1] 73:13
70s [3] 84:19 97:8 104:8
71 [1] 3:7
72 [1] 98:8

8

8 [3] 3:5 73:16 108:2
80s [1] 104:8
83 [1] 3:12
881 [2] 74:1,10
888-4676 [1] 1:22

9

94 [1] 98:13

A

ability [5] 47:24 48:1 66:16 95:20 116:8
able [18] 18:19 19:9,22 23:7 41:6 45:20
 57:11 59:6,20 61:17 62:10 66:2 73:23 96:

4 99:22 102:14,22 110:19
above [1] 59:10
above-grade [1] 21:17
absolutely [2] 59:9 84:6
abstention [1] 112:13
abstentions [3] 82:21 112:11 113:6
abundance [1] 89:23
abutters [5] 32:10,17 33:10 63:22 64:5
abutting [2] 21:19 22:6
accept [2] 60:23 114:13
acceptable [1] 42:14
access [1] 79:15
accommodation [1] 76:15
accomplish [3] 19:23 50:16,18
accordance [1] 37:5
according [2] 76:24 77:16
accurate [1] 116:7
acids [1] 90:19
acoustic [1] 95:12
across [2] 40:17 43:8
act [12] 3:11 83:1,6,8 84:1,22 85:23 86:
 15,20,22 95:20 116:14
activity [1] 77:15
acts [1] 84:20
actual [3] 21:1 50:10 90:18
actually [17] 31:10 49:6 67:13,15,16,18
 80:3,9 84:15 85:10 86:23 91:9 93:22 94:9
 104:15 109:1 114:6
add [5] 30:18 31:15 36:5 49:22 72:21
adding [1] 107:21
addition [3] 15:18 36:14 108:4
additional [9] 14:12 16:2,22 47:2 51:3
 54:8 71:9 72:12 82:12
additionally [1] 26:5
address [5] 10:24 11:10 47:2 52:23 111:
 11
addressed [2] 64:5 65:7
addressing [2] 24:19 60:3
adhere [1] 37:2
adjourn [2] 114:13,14
adjust [1] 61:7
adopt [5] 8:17 10:4 69:13 72:5 82:9
adopted [3] 73:3 76:22 77:23
adopting [1] 76:6
adoption [1] 112:19
adults [1] 93:23
advance [2] 42:14 110:7
advantageous [1] 61:18
advocating [1] 61:8
aerial [1] 89:22
affect [3] 46:1 96:19 110:13
affected [1] 30:23
affecting [2] 89:9 91:3
affordable [11] 72:8 73:14,16,19,21 76:
 16 77:9 79:17,19 80:4,7

<p>afforded [1] 86:20 africa [1] 94:4 afternoon [5] 9:6 12:23 23:19 42:21 71:16 age [1] 63:10 agencies [1] 40:16 agency [1] 48:3 agenda [6] 6:19 71:4 83:4 106:1 107:5 111:1 ages [2] 35:9 88:22 ago [4] 14:17,20 15:1 54:4 ago/two [1] 78:2 agree [1] 11:18 agreeable [3] 44:21 45:1 59:12 agreed [2] 21:10 26:23 agreement [2] 19:22 58:17 ahead [2] 80:11 83:16 aimed [1] 11:14 alaska [1] 92:23 albeit [1] 30:1 alignment [3] 10:14 61:7 62:15 allotment [1] 105:20 allow [6] 16:9 19:11 26:6 74:23 107:13 109:20 allowed [1] 102:7 allows [3] 24:21 72:6 109:7 alluded [1] 55:9 almost [3] 14:17 72:17 73:2 already [5] 22:9,21 49:12 75:10 109:15 although [2] 36:11 68:6 altogether [1] 66:19 amendment [9] 1:9 3:10 107:3,6,8,12 108:16 110:6 112:16 amendments [2] 98:16 110:7 american [2] 2:17 6:5 americans [1] 102:15 amount [4] 18:2 22:8 31:21 67:3 analysis [2] 25:3 90:22 analyze [1] 61:22 animals [4] 86:14 90:14 93:7 94:23 another [9] 36:16 48:3 54:13,15 56:18 59:14 78:18 89:2 108:20 answer [7] 28:5 32:19,22 44:13 75:20 78:24 110:8 answering [1] 9:13 anticipate [3] 22:22 97:24 98:3 anticipated [3] 25:14 97:20 111:7 anticipating [2] 110:2 111:10 anybody [1] 30:17 anyway [1] 21:10 appeal [1] 66:17 appeals [1] 65:24 appearing [1] 9:10 applicable [1] 72:16 applicant [7] 9:11 24:21 26:12,23 27:13</p>	<p>29:6 52:6 applicants [3] 24:24 25:17 26:21 application [17] 8:9 9:15 10:15,22 11:23 16:20 20:23 24:21 25:1,2 46:18 61:10,12 67:1,5 72:18 109:22 applied [1] 72:14 apply [1] 26:9 appointee [2] 2:18 6:9 appreciate [11] 28:13 39:14 59:7 63:17 83:15 97:7 101:23 106:4,12,14 114:21 appreciated [1] 29:1 appreciative [2] 33:6,6 approach [2] 40:20 60:24 appropriate [2] 24:1 77:13 appropriated [1] 73:21 approval [5] 6:19 12:7,17 110:16 111:19 approve [4] 8:18 45:19 62:12 76:10 approved [4] 10:17 61:19 72:18 108:18 april [4] 19:5 23:7 38:6 67:6 aquaculture [1] 93:5 arborist [1] 43:19 archaeological [1] 21:15 area [9] 18:5 20:17 25:10 35:24 46:10 56:3 77:9 78:11 93:19 areas [7] 20:2 21:14 25:13,23 90:16 93:24 103:16 aren't [4] 79:14 87:1 90:8 91:23 arise [2] 9:14 79:1 around [5] 36:3 41:11 51:5 87:13 89:9 article [1] 96:12 as-built [1] 35:20 aside [3] 20:6 80:9 105:20 as-is [1] 74:22 asme [1] 36:10 aspect [1] 21:7 aspects [1] 53:15 assembly [5] 1:15 111:17,19 112:19 116:10 assessment [1] 89:18 assimilating [1] 9:17 assistance [2] 42:13 75:14 associated [3] 25:9 60:8 66:7 associates [2] 9:23 13:1 assume [2] 84:17 102:9 assuming [1] 23:5 assumption [1] 55:15 assumptions [1] 77:19 atlantic [1] 87:16 attempt [1] 54:15 attempted [1] 55:2 attention [3] 23:11 58:1 102:11 attracting [1] 89:6 august [1] 6:20 authority [3] 92:2 93:7 95:23</p>	<p>available [2] 42:18 43:9 avoid [1] 21:1 avoided [1] 25:11 aware [1] 47:20 away [4] 32:14 91:4,9 101:21 aye [10] 69:8,23,24 70:19 82:5,19 112:6,7 113:4 114:19</p> <hr/> <p style="text-align: center;">B</p> <hr/> <p>back [20] 22:8 24:14 30:6 32:16 33:22 43:15 47:9,15 52:15,16 54:7 55:13 60:1 64:21 67:6 71:23,24 84:19 88:22 91:11 back-and-forth [1] 67:3 backbone [1] 14:6 background [1] 39:15 backlash [1] 87:6 backup [4] 29:20,23 32:2 54:1 balance [1] 17:9 balancing [1] 48:4 ballard [1] 93:4 baltic [1] 91:6 banned [1] 99:17 barnstable [38] 1:16 2:3 4:6 8:16 10:21 11:2,10 15:13 16:19 17:10,16,17 18:7 21:21 22:13 23:3 26:9 27:11 40:20 41:16 42:16,24 43:4 45:20 50:17 51:22 52:23 53:20 60:8 61:8 64:17 65:4,20 78:1,2 109:16 116:3,11 barnstable's [2] 60:24 68:2 baron [1] 81:17 barton [16] 9:22 10:2 12:20,22,24 23:15 29:11 30:7 33:24 34:8,12,15 36:7 52:19 53:16,17 based [13] 13:2 40:1 50:3 55:15 56:14,14 58:21 61:17 62:3,18 65:10 86:12 94:5 basically [9] 15:10 16:5 17:7 18:10 20:9 22:15 47:21 100:19 107:20 basics [1] 13:13 basis [1] 61:20 bass [2] 96:14 98:20 baton [2] 10:1 12:19 bay [2] 91:21 108:20 beach [4] 1:21 91:16 94:23 95:13 beaches [1] 89:9 began [1] 80:20 beginning [3] 8:14 22:1 38:22 begun [2] 75:10 109:15 behalf [1] 9:10 behavior [1] 89:13 behind [3] 39:16 49:24 85:17 believe [8] 12:5 16:20 21:24 27:14 71:24 75:19 88:5 105:7 believes [2] 10:3 27:18 bellies [1] 88:24 below-ground [1] 18:6 bench [1] 13:6</p>
--	--	--

beneath [1] 17:11
beneficial [1] 101:17
benefit [2] 26:8 43:22
benefits [5] 16:12,23 58:11,12,13
best [2] 48:18 116:8
better [7] 28:18,24 54:23 66:12 70:15 77:7 83:13
between [9] 12:11 22:11 31:16 45:11 53:13 70:16 87:24 90:12 93:18
beyond [5] 30:11,16 35:19 59:10 75:8
bicycle [3] 50:5,21,23
big [6] 55:21 58:15,15 73:5 90:7 104:9
bike [37] 11:15 12:15 40:12 45:7 48:9 49:1,18 50:19,20 53:4,7,8,11,14 54:8,18,20,21 55:12,13,17,18 56:1,19,24 57:2,3 58:13 60:14,20 61:2 65:8,12 66:6 67:14 68:2,19
bike-path [1] 67:15
bill [1] 97:20
bit [9] 13:14,17 14:16 52:11 58:9 59:14 85:12 88:14 90:8
blacktip [1] 103:5
blanket [1] 93:10
blubber [1] 90:21
board [17] 10:17 11:24 12:2 29:14 61:13,15,19,24 62:4,9,10,11 71:20 74:11 78:3 81:15,16
board's [1] 12:6
boats [1] 88:21
bodies [1] 103:3
borne [2] 41:15 51:21
botany [2] 26:16,19
both [18] 11:10 13:18 22:12 23:2 37:3 40:24 41:15 42:9,15 44:22 65:3,19 66:12 74:8 77:21 78:5,5,6
bounded [1] 18:8
bounty [1] 87:10
bourne [2] 2:4 4:9
box [1] 21:23
brand-new [1] 30:15
brewster [5] 2:5 4:12 28:16,19 37:22
brief [4] 9:20 28:4 75:17 108:14
briefly [2] 10:24 59:9
brighter [1] 34:16
bring [2] 33:22 66:2
bringing [1] 43:6
broadening [1] 78:8
broader [3] 75:8 78:12,13
broadly [1] 85:5
broke [1] 73:2
brookshire [14] 2:8 4:21,22 32:9 33:9,15 34:10 44:10,19 45:15 63:13 66:23 69:10 70:12
brought [2] 36:16 63:15
budgets [1] 26:10

buffer [1] 23:4
buffers [1] 25:23
build [4] 17:6 57:3 60:15 90:19
building [4] 54:5 57:2 77:7 78:7
built [4] 14:16,16,23 74:6
bull [1] 103:4
bullet [1] 54:2
bunch [3] 50:2 84:19 93:18
bunkum [1] 99:11
burden [2] 92:24 93:1
burial [1] 34:24
burke [32] 3:12 83:8,18,20 96:9,21,24 97:10,13,17,22 98:13 99:4,14 100:4,7,9,16 101:2,12,14,18 102:8,13,19 103:24 104:5 105:3,10,14 106:10,13
business [3] 57:2 73:17 114:12
buy [1] 96:17
buzzards [1] 108:20
bycatch [1] 104:10
bylaw [3] 72:6,6,23
bylaws [1] 72:20

C

calculation [1] 62:8
call [4] 4:5 56:13 72:5 73:14
called [3] 35:12 85:6 94:10
calling [2] 28:23 75:15
came [7] 35:23 53:4 54:16 78:2 84:20 97:6 98:14
canada [7] 87:16,17 90:13 91:5 99:15,20 100:11
canadian [2] 87:20 88:4
canal [2] 1:19 14:9
cannot [2] 11:18 16:4
capacities [1] 31:21
capacity [1] 30:2
cape [47] 1:3 2:2 4:1 8:6 11:23 13:16 14:6,9,12 15:19,20 16:11,13,17 22:7 24:10,16 30:14 37:15 38:8,13 39:24 40:9,18 42:11,12 43:7,8 53:9 62:14 63:16 64:20 65:17 71:5 72:15 73:8 83:10,23 91:21 96:13 99:2 107:7,10 109:16 112:18 114:24 116:8
cape's [1] 73:4
cape-wide [1] 66:6
captain [1] 73:12
capture [1] 85:5
care [6] 59:4 88:15 91:23 101:13,19 106:13
carefully [3] 35:3,16,17
cares [2] 61:24 62:1
carries [1] 82:21
case [5] 79:13 94:3 107:19 108:24 109:14
catch [1] 88:20
cathodic [1] 35:7

cause [1] 35:22
caused [1] 55:6
causing [1] 35:24
caution [1] 28:16
cautious [1] 60:2
cavalier [1] 74:2
caveat [1] 28:21
center [1] 63:16
certain [5] 14:11 59:20,21,22,22
certainly [8] 17:1 31:5 42:18 57:10 59:5 65:5 98:2 108:13
certified [3] 1:12 43:19 116:4
certify [1] 116:6
chain [1] 94:15
chair [89] 2:12 4:3 5:13,22 6:13 8:4 9:3,6,6 23:12,16 28:8 29:3 32:5 34:3 37:6,17 38:19 42:19 43:11,24 44:2,9,12 45:17 46:20 52:2,14,18 57:21 64:9 67:12 68:24 69:4,9,11,17,19,22 70:1,7,13,17 71:3 75:21,23 79:3 80:14,16 81:3,11,19,24 82:3,6,8,14,17,20 83:2 96:2 101:15,20 103:19 105:23 106:8,11,14 107:4 108:9,12,15 110:10 111:13,21 112:2,5,8,10,14,23 113:2,5 114:2,8,11,16,18,20
chairman [7] 44:3 51:24 67:20 69:1 80:17 81:12,15
challenge [1] 38:13
chambers [2] 1:15 116:11
change [11] 11:24 12:3,7 22:15,20 45:21 61:12,15,16,18 83:3
changed [1] 99:18
changes [3] 76:19,20 110:3
changing [1] 103:2
chapter [6] 1:8 3:9 107:2,9 108:16 112:18
character [1] 76:14
charles [3] 2:10 4:24 5:1
chase [4] 8:14 15:9 18:21 55:16
chatham [3] 2:6 4:14 96:8
chief [2] 2:21 23:20
choice [2] 20:7,8
chomping [1] 90:8
clear [3] 10:6,13 58:9
cleared [1] 56:3
clearing [3] 17:13 21:1 25:8
clearly [3] 55:24 56:6 91:14
close [11] 19:9 28:17 33:10 38:20 69:1,5 79:17 81:23 83:19 103:22 111:24
closing [1] 68:22
cmr [1] 36:15
coast [1] 103:7
coating [3] 35:6 36:23,24
co-chair [1] 67:18
cod [34] 1:3 2:2 4:1 8:6 11:23 22:7 24:10,17 37:15 39:24 40:10,18 42:11,12 43:7

<p>64:20 65:17 71:5 72:15 73:8 83:10,23 88:24 89:5 91:10,21 96:13 98:23 107:7,10 109:16 112:18 114:24 116:8</p> <p>code [2] 107:10 112:18</p> <p>codes [2] 36:14 37:5</p> <p>cold [2] 15:22 29:20</p> <p>coliform [1] 97:2</p> <p>colin [5] 31:13,13 36:4,6,9</p> <p>collaboration [1] 66:24</p> <p>collaboratively [1] 67:9</p> <p>colleague [1] 52:5</p> <p>colonial [1] 8:9</p> <p>colonies [1] 88:1</p> <p>co-managing [1] 12:24</p> <p>come [18] 6:15,15 38:24 45:20 47:9,15 50:2 52:15 58:16 59:11 64:24 75:19 80:6 83:24 87:15 88:24 91:11 99:3</p> <p>comes [5] 14:8 48:23 58:3,24 84:5</p> <p>comfortable [1] 63:14</p> <p>coming [7] 74:21 79:14 95:7 103:6,22 110:3,4</p> <p>commenced [1] 4:2</p> <p>commencing [1] 1:16</p> <p>comment [6] 6:16 29:5 43:14,18 62:23 80:17</p> <p>comments [15] 8:21 11:1,13 28:9 38:22 53:18 55:10,10 66:20 70:9 71:12 81:10 107:17 111:22,23</p> <p>commercial [3] 72:9 85:21 90:16</p> <p>commission [70] 1:3 2:2 4:1 8:6,16 9:7,7,17 10:3,12,23 11:5,23 12:10 22:7 23:3,18 26:14 27:4,18,20 28:2 39:24 40:10 42:11 45:3,12,14 46:19 47:10,16,20 61:10 65:18 66:1,14 68:10 69:8,24 71:5 72:15 73:8 75:15,24 76:5 77:4 78:3 82:5 83:11,12,23 107:7,10 108:6,10,13 109:16,21 110:1,3 112:1,7,18 113:4 114:15,17,19 115:1 116:8,16</p> <p>commissioner [5] 5:24 6:1 59:8 66:22 109:3</p> <p>commissioners [9] 28:10 43:16 52:16 68:12 79:5 81:10 96:3 110:11 111:23</p> <p>commission's [6] 10:10 12:17 24:17 42:12 64:10,20</p> <p>commitment [3] 26:5 52:10,12</p> <p>committed [3] 43:4 52:22 59:16</p> <p>committee [3] 67:14,20 82:19</p> <p>commodity [1] 99:17</p> <p>common [2] 100:23 104:11</p> <p>commonwealth [5] 1:2,14 78:22 116:2,5</p> <p>communicated [1] 26:12</p> <p>communities [3] 59:17,17 60:19</p> <p>community [6] 32:20 37:24 71:18 78:22 80:18 81:13</p>	<p>companies [3] 59:16 60:5 67:7</p> <p>companies' [1] 59:15</p> <p>company [41] 8:9 9:20 10:3,7 11:6,8,15,16,18,22 12:5,9,11 15:24 16:7 22:11 30:17 32:21 33:2,5,19 37:10,15 44:22 46:8 47:23 48:11,18 52:21 54:14 55:2 58:14 59:10,13 60:2,15,16 61:2 62:6 63:1 67:8</p> <p>company's [8] 9:15,23 10:9,15,22 11:11,20 17:2</p> <p>compare [2] 58:11 85:22</p> <p>compared [1] 105:16</p> <p>competition [1] 89:3</p> <p>competitors [1] 89:4</p> <p>complete [2] 38:17 68:2</p> <p>completed [5] 15:6 23:14 32:1 37:21 38:3</p> <p>completely [2] 44:7 93:12</p> <p>complex [2] 91:2,7</p> <p>complicated [1] 88:1</p> <p>complications [1] 103:11</p> <p>compliment [1] 37:12</p> <p>component [2] 72:9 73:22</p> <p>comprehensive [1] 16:22</p> <p>compromise [1] 55:7</p> <p>concept [3] 20:5 85:6 96:18</p> <p>concern [9] 11:11 12:10 41:5,10 47:6 51:23 84:24 89:2 110:23</p> <p>concerned [2] 33:10 48:4</p> <p>concerns [15] 11:14 12:15 27:24 33:2,7 39:17,22,23 41:4,7 55:24 58:1 60:3 64:5 88:17</p> <p>concluded [1] 115:1</p> <p>concur [1] 43:3</p> <p>condition [1] 28:18</p> <p>conditioned [1] 40:9</p> <p>conditions [2] 24:1 27:1</p> <p>condos [1] 79:11</p> <p>conduct [3] 8:7 71:6 107:7</p> <p>conflation [1] 65:8</p> <p>connect [2] 24:4 68:19</p> <p>connecticut [1] 100:21</p> <p>connection [1] 93:18</p> <p>conron [4] 2:4 4:10,11 69:21</p> <p>consequences [1] 94:14</p> <p>conservation [4] 18:9 23:3 84:20 92:5</p> <p>consider [5] 8:7,16 42:6 71:6 107:8</p> <p>consideration [5] 12:21 23:22 59:23 76:5 114:10</p> <p>considerations [1] 20:22</p> <p>considering [1] 75:18</p> <p>consistency [1] 108:1</p> <p>consistent [9] 10:11,16 16:20 41:23 50:20 55:13 56:23 61:7 76:17</p> <p>constructed [3] 24:7 35:17 66:9</p> <p>construction [28] 13:22 14:21 16:10,</p>	<p>23 17:22 18:18 19:1 23:7 24:7 25:15,18,20,21 26:2,24 27:3,8 33:21 34:22 35:1 36:18 37:3 38:4 40:11 51:3 56:11,19,22</p> <p>constructively [2] 11:9 52:22</p> <p>consultant [2] 9:24 50:1</p> <p>consultation [1] 26:3</p> <p>consulted [2] 49:24 50:1</p> <p>consulting [1] 13:2</p> <p>consuming [1] 105:17</p> <p>consumption [1] 105:2</p> <p>contacted [1] 32:24</p> <p>contains [2] 23:24 26:1</p> <p>contemplated [1] 12:8</p> <p>contemplating [1] 109:17</p> <p>content [2] 57:18 90:22</p> <p>context [4] 13:15 61:23 64:11 66:21</p> <p>continuation [2] 40:22 61:2</p> <p>continue [7] 11:9 26:3 40:17 52:21 53:9 67:10 74:14</p> <p>continued [3] 72:20 74:12 94:16</p> <p>contractor [2] 20:7 35:23</p> <p>contractors [1] 26:22</p> <p>control [3] 21:23 93:13 95:5</p> <p>controls [2] 26:1 77:8</p> <p>controversial [1] 86:23</p> <p>conversation [3] 63:5,19 99:10</p> <p>conversations [5] 60:7,10,11 62:20 67:7</p> <p>cooperation [2] 70:15 92:4</p> <p>cooperatively [2] 57:8 66:18</p> <p>coordination [3] 13:18 22:9,10</p> <p>copies [3] 27:5 76:20 78:17</p> <p>copy [1] 77:4</p> <p>core [1] 13:10</p> <p>corporation [1] 47:21</p> <p>correct [1] 79:10</p> <p>corridor [7] 40:23 71:8 76:14,23 77:8 78:13 82:10</p> <p>corrosion [1] 35:9</p> <p>cost [19] 12:6 41:15 42:1 48:5,16,18 51:1,11 53:19 55:14 59:22,23,24 61:20 62:1,1 95:23 98:1,1</p> <p>costing [1] 96:15</p> <p>costly [1] 50:15</p> <p>costs [6] 48:6 49:2,6 50:15 51:19,21</p> <p>cost-wise [1] 92:14</p> <p>cougars [2] 93:17,23</p> <p>couldn't [1] 94:7</p> <p>count [1] 79:20</p> <p>country [1] 100:19</p> <p>county [3] 5:23 64:17 116:3</p> <p>couple [3] 13:4 63:20 71:19</p> <p>course [6] 9:14 10:21 42:3 43:5 86:17 90:5</p> <p>court [1] 1:19</p>
--	---	---

courthouse [2] 1:15 116:10
covered [3] 54:3,6 95:19
cows [2] 100:20,20
coyote [1] 93:21
coyotes [1] 93:16
cpa [2] 73:20 80:8
create [3] 76:16 77:7 80:3
created [2] 45:9 73:13
creating [1] 73:15
credit [1] 79:9
credits [1] 79:16
crews [1] 18:19
crosses [1] 15:15
crossing [1] 51:11
crowley [1] 81:17
cue [2] 73:24 74:23
cull [3] 93:8 94:5 95:1
culling [4] 88:2 94:13,17 103:14
culprit [1] 96:7
cumulative [1] 109:5
curb-to-curb [1] 20:6
current [1] 30:22
currently [8] 24:7 38:4,12 40:13 87:14
 108:17,23 111:10
customer [2] 37:24 63:17
customers [6] 16:15,17 59:5 60:1,17
 62:2
cvr [1] 116:14
cylinders [1] 85:14

D

d/b/a [1] 8:10
dairy [1] 100:20
dakota [1] 78:21
damage [1] 35:24
damn [1] 99:9
dandy [1] 56:5
danger [1] 90:6
dark [1] 88:22
data [4] 97:2 99:14,22 100:1
date [3] 33:1 109:1 116:14
david [3] 2:17 6:6,7
day [5] 24:9 53:22 63:10 96:14 99:9
days [4] 103:23 107:15,24 110:21
deal [8] 41:8 51:10 73:5 90:7 93:7 98:23
 99:7 103:7
dealing [2] 68:12 93:8
dealings [1] 66:15
deals [2] 53:6 93:4
debate [1] 97:19
decades [1] 16:1
decided [1] 93:1
decision [21] 8:17 9:19 10:4,5,7 11:21
 12:18 23:22,24 27:2 44:21 46:17 69:14
 76:4,6,9,18 77:1 82:11 109:8,20
decisions [2] 66:17 109:12

declines [1] 84:23
declining [1] 85:1
deep [1] 90:15
defecating [1] 96:18
defer [4] 36:20 43:1 52:4 106:7
define [1] 85:4
degree [1] 78:9
delay [1] 12:17
delegates [4] 1:15 111:19 112:19 116:
 11
delisted [1] 86:21
delivered [1] 9:22
deliveries [3] 31:24 32:2 44:5
demand [1] 16:3
demonstrated [1] 16:19
denied [1] 47:23
dennis [8] 2:7 4:17 14:15 32:20 37:22,
 23,23 38:11
deny [1] 45:18
dep [1] 21:13
department [4] 47:24 67:17 97:1 98:10
depend [2] 46:4,15
depleted [1] 85:20
depredation [1] 88:19
depth [2] 11:4 34:24
deputy [2] 2:20 108:12
describe [1] 33:12
design [9] 13:17 34:22,23 37:4,4 51:4
 65:11 72:11 77:8
designated [3] 71:8 107:13,22
designation [1] 72:16
designed [4] 35:16 36:10,13 77:21
designing [1] 56:21
desire [4] 53:14 67:24 68:1,2
desired [1] 60:24
desires [1] 11:18
detail [2] 41:7 53:24
detailed [3] 15:7 19:19 20:23
details [7] 11:4 16:24 19:11 49:14,23 95:
 3,9
deteriorate [1] 51:17
determine [1] 92:11
determined [1] 48:17
deterrents [2] 95:8,12
detour [1] 19:17
devastating [1] 105:8
develop [2] 42:7 55:2
developed [5] 18:5 26:2,3 40:8 76:22
developers [1] 78:22
developing [3] 10:22 78:20 92:5
development [16] 8:8 24:11,12 25:2
 39:19 42:23 45:2 71:18 72:22 77:1,3,13,
 15 80:19 81:13 110:23
develops [1] 28:6
diet [1] 90:18

difference [1] 87:21
different [9] 25:5,5 29:15 68:13 84:9 87:
 5 90:20 93:12 94:1
difficult [2] 74:19 90:17
difficulty [1] 41:8
digging [1] 35:21
diminished [1] 104:8
direct [1] 21:3
director [11] 2:19,20 37:11 39:5 42:23
 71:17 80:18 81:13 107:15,23 108:12
director's [4] 3:13 6:23 114:1,4
dirt [1] 35:14
discuss [2] 11:3 75:10
discussed [3] 19:18 23:9 57:1
discussing [2] 58:14 65:15
discussion [14] 9:15 30:11 45:10 47:
 11,16 49:8,9 54:7,11 55:4 57:5,13 83:10
 111:2
discussions [8] 10:20 12:11 13:24 45:
 12 57:14 65:21 66:2,9
disruption [1] 41:14
distribution [2] 8:13 36:13
district [6] 1:14 41:11 50:2 51:7,12 116:
 10
disturbance [1] 21:3
disturbed [3] 20:11 25:10 35:6
dive [1] 90:15
division [2] 83:9,21
dna [1] 90:21
document [1] 95:7
doing [12] 15:17 60:3 63:18 64:1 78:5
 80:2 94:4,21 99:11 103:15 104:9,17
dolphins [1] 85:18
done [15] 14:14 22:5,8,21 23:1,8,15 24:9
 32:11 52:3 55:22 78:1 92:20 95:21 98:21
door [1] 33:1
door-to-door [1] 22:5
dot [2] 36:10,21
down [12] 21:24 38:16 44:11 45:23 52:9
 55:17 58:16 63:2 88:8 94:21 96:4 104:13
downturn [1] 74:18
dpu [2] 47:24 48:3
dpw [4] 22:12 37:10 39:5 55:6
draft [14] 8:17 9:18 10:4,7 11:21 12:18
 23:21 27:1,6 69:13 76:4,6 82:9 112:16
drainage [1] 51:4
drawings [1] 37:4
dri [19] 8:8,17,18 10:11 23:22,23 24:17,
 18,20 25:6 27:2 42:11 44:10,14 68:4,16
 69:13,14 77:22
driving [1] 104:13
due [3] 40:18 83:14 105:24
duke [1] 87:11
duration [2] 77:12 112:17
during [12] 9:14 10:21 12:13 15:22,22

17:3 26:1 35:6 36:18 45:12 47:17 67:10
dynamics [1] 91:1

E

each [4] 12:14 20:2 35:3 108:23
earlier [8] 13:4 14:2 15:18 21:19 23:6 36:17 65:17 68:14
early [2] 19:4 84:19
ears [1] 60:9
earth [1] 87:12
easement [1] 47:22
easier [1] 95:4
east [2] 8:15 15:9
easterly [1] 8:15
eastern [2] 14:22 26:18
eastham [2] 2:8 4:20
eat [1] 100:6
eating [3] 87:3 89:3 99:12
eats [1] 96:13
ecology [2] 87:8 89:13
economic [1] 74:18
economical [1] 74:14
economy [1] 80:24
ecosystem [3] 85:2 86:10 89:14
edc [1] 78:18
edge [1] 20:10
effect [3] 108:3 109:9,10
effective [1] 74:13
effectively [1] 42:8
effectiveness [1] 94:12
effort [3] 14:5 66:5 92:14
efforts [3] 13:17 66:11 75:12
efsb [7] 22:16 48:4,13,14,16 66:15,17
either [8] 19:15 24:6 25:9 45:3 55:17 69:13 79:7 97:19
electric [1] 18:13
eligible [1] 27:19
eliminate [4] 16:14 29:8,17 31:6
eliminated [1] 44:7
elizabeth [36] 2:5 4:6,9,12,13,14,17,20,23 5:2,5,8,11,14,17,20,23 6:2,5,8,11 28:11,12 42:21,22 79:6,7,21 80:1,11 82:2 101:24 102:2,9,18,24
elucidate [1] 91:7
email [1] 114:7
emigration [1] 87:23
enable [1] 16:7
enacted [1] 85:23
encourage [2] 72:2,3
encourages [1] 77:8
end [9] 6:24 15:13,16 18:21 19:16 26:18 59:24 78:23 91:11
endangered [4] 21:6 26:15 85:23 86:22
endeavor [1] 48:10
ended [2] 64:2 73:15

ends [1] 100:23
energy [3] 10:17 61:13,14
engineer [6] 13:7,8 22:12 30:24 31:14 39:6
engineering [6] 31:9 52:6,12,19 53:15 57:18
engineers [3] 33:18,22 36:8
enough [10] 35:10,10 58:15,16 75:3,5,5,6 104:11 109:4
ensure [1] 35:18
entail [1] 92:5
entanglement [1] 104:14
enters [1] 65:22
entire [7] 15:6 18:7 26:7 40:18 50:23 56:14,24
entirely [5] 11:22 14:19 16:20 61:9,11
entirety [1] 77:12
entities [1] 66:16
environmental [11] 9:23 13:1,7 20:21 24:15 25:20 26:24 27:3,8 61:20 84:20
environmentally [1] 28:15
envisioned [2] 14:4,13
epoxy [1] 36:24
epsilon [3] 9:22 13:1,11
equipment [2] 17:22 21:17
erin [36] 3:12 83:8,18,20 96:3,9,21,24 97:7,10,13,17,22 98:13 99:4,14 100:4,7,9,16 101:2,12,14,18 102:8,13,19 103:24 104:5 105:3,10,14 106:4,9,10,13
erin's [1] 83:15
ernest [2] 5:5,7
ernie [1] 37:7
erosion [1] 25:16
esa [1] 86:8
escrow [2] 26:6 55:3
especially [6] 15:21 16:8 17:15 37:10 77:6 109:14
essentially [4] 14:5 34:18 37:2 46:2
establish [1] 98:17
established [1] 98:8
establishing [1] 26:6
estimate [7] 53:19 55:14 56:13 89:20,20,23,24
estimates [1] 50:3
etcetera [1] 35:15
etsten [14] 2:9 5:3,4 43:18 103:20 104:2,22 105:5,12 110:12,17,22 112:9,12
eu [1] 99:17
europe [2] 93:15 99:18
even [7] 32:12 73:7 92:12 95:4 100:9,12 104:4
evening [1] 20:2
event [1] 12:12
eversource [1] 15:15
everybody [6] 32:24 34:6,9 57:12 59:1

64:14
everyone [3] 12:23 70:18 80:21
everyone's [2] 83:4 87:4
everything [1] 84:6
evidence [1] 10:8
evolved [1] 55:4
exactly [1] 95:17
example [1] 21:22
exceed [1] 36:19
excellent [1] 40:8
except [1] 84:4
excess [2] 40:18 42:2
excited [1] 74:6
excuse [2] 34:3 104:2
executive [7] 2:19 3:13 6:23 107:14,23 114:1,4
exempt [1] 21:9
exempted [1] 10:10
exemption [24] 8:8,17,18 23:22,23 24:20 27:2,19,21 42:12 44:11,15,20,20 45:19 46:3 47:15 65:1,16 66:3 68:5,16 69:13,14
exist [2] 18:3 109:6
existed [1] 26:18
existence [1] 85:1
existing [13] 13:16 14:7 16:17 17:17 18:3,15 25:10 31:16,18,22 76:8,15 78:8
exit [1] 19:17
expand [1] 93:23
expansion [1] 65:9
expansive [1] 25:1
expect [6] 47:9,14,15,16 52:7 62:9
expected [2] 21:14 42:2
expense [1] 49:17
expensive [1] 51:9
experience [2] 43:2 62:3
experienced [1] 15:20
expert [6] 47:12,13 84:3,3,10 105:7
expertise [4] 42:13 43:2 45:13 49:16
expiration [1] 109:1
expires [1] 116:16
expiring [1] 78:5
explained [2] 11:17 88:12
explanation [1] 89:21
expressed [2] 33:2 110:23
extend [3] 71:7 110:14,20
extended [2] 107:14,23
extending [1] 8:15
extension [24] 1:7 3:7 40:17 63:17 71:2 74:22 76:3,6,11,12 77:17,18 78:4,7,16 81:1 82:11,12 107:24 108:4,4 109:8,19 111:4
extensions [2] 78:6 108:5
extensive [3] 22:11 66:5 67:7
extent [4] 11:5 45:12 46:4 60:5

extinct [2] 85:13 90:4
extinction [2] 86:1 90:8
extremity [1] 15:21

F

face [2] 102:5 103:1
faces [1] 13:5
facilitate [5] 11:15 16:13 41:6 61:1 65:18
facilities [2] 10:17 42:4
facility [8] 16:1,2 29:18 50:21,22 61:13,15 74:10
facing [3] 20:15 61:3 103:12
fact [10] 10:8 18:6 49:15 56:9,23 62:13 80:20,21 97:24 103:1
factory [1] 104:9
facts [1] 49:22
failures [1] 51:13
fair [4] 18:2 22:8 55:5 58:8
falmouth [1] 4:23
familiar [2] 13:5 88:19
familiarity [1] 66:3
far [5] 60:16 90:7,13 104:19 105:8
farm [1] 100:19
fast-forwarding [1] 74:16
fatty [1] 90:19
favor [10] 44:4 69:7,23 70:14,15 82:4,18 112:6 113:3 114:18
fecal [1] 97:2
fecundity [1] 104:16
federal [12] 36:10,12,14,19,21 37:3 81:6 91:14,15,17 92:3 95:20
feds [10] 88:11 89:18 91:17,24 92:12,21 95:6 98:10,11 99:23
feedback [1] 33:4
feel [2] 63:14 70:9
feels [1] 60:17
feet [4] 18:1 46:7,13 54:20
felt [1] 75:3
few [10] 10:2 11:7 13:5 15:19 20:21 21:19 45:5 53:18 54:4 87:8
fewer [2] 17:4 30:1
field [1] 84:11
figure [6] 58:19 68:9 83:19 91:2 92:20 94:8
figured [1] 87:13
file [1] 22:15
filed [1] 8:9
filing [4] 11:22,24 22:15 23:3
fill [1] 17:4
final [5] 10:5 27:5 40:10 81:9 111:23
finally [1] 76:24
financial [1] 93:1
find [5] 57:11,15 98:6 102:14,22
finding [2] 43:4 62:23
findings [2] 10:6 23:24

finished [2] 14:21 30:8
firm [2] 9:9 13:2
first [17] 1:14 14:16,18 22:18 32:7 34:19 37:18 38:20 39:16 53:21 73:4 79:5 80:15 92:9 102:2 110:5 116:10
fish [11] 87:3 89:3 91:3 94:5,6,10 99:11,12 102:3 104:24 105:2
fisheries [7] 83:9,21 85:21 97:21 98:16,17 104:19
fishery [2] 91:19 105:17
fishing [11] 88:19 90:16 96:12 98:2 99:9 103:21 104:3,3,7 105:1,8
fit [1] 46:16
five [1] 54:7
five-foot [3] 50:4,8,13
fix [1] 30:8
fledged [1] 54:18
fleets [2] 103:21 104:7
flexibly [1] 26:9
flipper [1] 99:13
floodplain [1] 21:4
flow [1] 16:6
flynn [2] 5:24 6:1
focus [3] 74:12 75:8 78:12
focuses [1] 78:10
folks [5] 21:5 22:5,12 52:23 60:7
follow [1] 109:23
followed [1] 91:24
follow-up [1] 62:23
food [1] 94:14
foods [1] 104:19
foot [2] 40:3 54:7
foraging [2] 89:13 90:13
force [1] 85:17
foregoing [1] 116:6
foreign [1] 104:7
foremost [1] 10:6
foreseeable [1] 30:1
foresees [1] 49:16
form [2] 27:6 54:12
formally [1] 27:7
former [1] 74:1
forth [1] 63:15
forward [16] 6:17 9:13 45:20 57:16 60:10 68:7 70:5 74:21 75:1 79:15 80:6 83:6,12 105:13 109:21 111:15
found [3] 94:5,6 101:1
foundation [1] 40:12
four [6] 14:20 71:9 74:21 77:18 82:12 91:20
four-corners [1] 46:17
four-year [1] 75:2
frankly [1] 61:5
friendly [1] 52:8
front [3] 13:21 57:7 64:23

fruition [1] 43:8
full [4] 10:11 25:1 54:17 56:4
full-time [1] 31:23
fully [4] 10:16 38:17 54:22 57:13
function [1] 86:10
functioning [1] 85:2
fund [1] 56:11
funding [3] 56:10 66:7 90:1
funds [4] 20:5 73:20 80:8 92:13
further [7] 32:16 42:1 51:17 62:20 70:5 76:12,19
future [7] 16:10 30:1,21 41:9 42:9 43:22 64:23

G

gadcliff [1] 73:12
gardens [2] 74:3,5
gas [30] 8:9,13 11:11 14:6,12 16:2,9,14,16 18:15 32:2 33:12,19 39:21 40:2,21 41:2,12,13,20 44:22 51:5,9,15 57:4 60:9,15 63:17 64:12 66:4
gauntlet [1] 61:4
gear [3] 88:20 104:15,15
gel [1] 68:6
general [2] 81:7 89:12
generalist [1] 84:4
generally [1] 24:18
generations [1] 87:8
genetics [1] 87:19
gets [4] 23:10 34:6 58:17 90:5
getting [5] 60:12,14 79:9 87:4 100:1
gill [3] 88:21 104:10,15
girth [1] 36:22
gist [1] 29:13
give [7] 6:14 49:13 75:5 83:24 84:13 95:10 114:10
given [10] 10:9 19:8 22:21 35:20 46:8 55:21 58:22 89:11 91:13 108:13
giving [2] 20:13 100:22
giz [15] 71:9 72:19 73:9 76:13 77:13,16 78:7,8,11 80:20 107:5,22 109:8 110:13,24
gizs [1] 78:5
glad [1] 62:7
glitch [1] 32:21
global [1] 101:3
goal [5] 42:9 85:9,19 86:9 91:11
goals [4] 40:24 41:24 42:15 108:3
google [1] 87:12
gosh [1] 104:5
got [3] 49:21 54:2 103:15
gotten [1] 78:15
government [3] 36:12 38:23 100:14
governor's [3] 2:18 6:8 43:7
grad [1] 88:14
grade [2] 40:11 56:5

graded [1] 56:3
grading [2] 21:2 25:8
grant [6] 24:2 27:20 44:10 47:14 69:14 82:11
granted [5] 44:15,20,21 46:3 108:5
granting [2] 23:23 76:5
great [8] 45:7 48:10 62:5 64:6,18 80:12 97:8 98:4
greater [1] 31:21
greatly [2] 29:1,16
green [4] 20:16 34:10,12,15
greene [9] 71:16,17 75:22 79:12,24 80:5,13,19 81:13
grey [4] 87:10,17 89:18 93:11
grid [20] 8:10,12,24 9:10 22:5 39:8,12,20 40:1,7 42:7,15 43:6 45:11 57:2 64:11,14,21 65:21 66:4
grid's [2] 41:1 42:5
ground [6] 35:5,9,23 64:3 73:2 91:18
groups [2] 58:3 70:16
grown [1] 17:18
growth [41] 1:7,8 3:7,9 71:2,5,8 72:15,24 73:3 74:22 75:7 76:8,9,18 77:2,10,23 78:9,16,21 82:10 107:2,9,13 108:16,18,23 109:2,6,11,17,20,22 110:15,20 111:6,7,9,11 112:17
grunwald [4] 2:13 5:15,16 106:6
guardrails [1] 50:11
guess [5] 28:22 46:4,14 96:6 98:8
guidance [1] 95:7
gulf [1] 93:5
gut [1] 90:22
guys [5] 84:17 87:9 91:23 95:17 101:15

H

habitat [1] 46:9
half [4] 22:4 55:14 56:12 78:1
half-page [1] 54:2
hampshire [1] 88:22
hampton [1] 73:2
hand [2] 69:10 99:12
handle [2] 88:7 90:18
handled [1] 27:23
hanger [1] 33:1
happen [7] 30:10 51:14,14 64:7 91:8 92:9 111:7
happened [3] 84:15 92:22 111:6
happening [2] 70:10 85:15
happens [1] 45:21
happy [8] 11:3 13:23 28:5 62:6 75:11,20 78:24 110:8
harass [1] 85:6
harbor [3] 104:12 105:16,21
hard [5] 68:18 71:24 90:23 91:6 94:13
harold [76] 2:12 4:3 5:12,13 6:13 8:4 9:3 23:12,16 28:8 29:3 32:5 34:3 37:6,17

38:19 42:19 43:11,24 44:9,12 45:17 46:20 52:2,14 57:21 67:12 69:4,9,11,19,22 70:1,7,13,17 71:3 75:21,23 79:3 80:14 81:3,19 82:3,6,8,17,20 83:2 96:2 101:15,20 103:19 105:23 106:8,11,14 107:4 108:9 110:10 111:13,21 112:2,5,8,10,14,23 113:2,5 114:2,8,11,16,18,20
harris [11] 2:16 6:3,4 29:5 30:4,20 32:4 46:23 49:12 52:4 113:1
harris's [1] 44:6
harvest [4] 99:20 100:22 101:1 102:16
harwich [5] 2:9 5:2 14:16 37:22 38:13
hashed [1] 20:17
haul-out [1] 89:10
hawaii [1] 92:23
head [1] 36:2
health [1] 97:2
healthy [1] 86:10
hear [5] 34:7,9 84:17 88:17 91:12
heard [14] 27:9 29:5 30:11 34:19 38:7 41:2 48:8 52:1 55:4 62:18 105:19 108:19,21,24
hearing [22] 3:3,6,8 8:1,5,7,22 28:6 47:5 69:2,5 71:1,6,13 81:23 107:1,8,18 109:23 110:1 111:24 116:9
hearings [2] 1:4 7:2
heart [1] 68:8
heat [2] 75:4 103:3
heavy [2] 59:18 100:16
height [1] 17:24
held [4] 1:10 6:20 57:5 116:9
hello [1] 83:18
help [7] 33:18 42:13 48:24 75:5,16 94:10 98:11
helped [1] 73:9
hereby [1] 116:6
herein [1] 108:2
heritage [4] 21:6 26:15,17,20
herring [4] 105:6,7,9,18
hi [3] 37:23 96:9,10
high [1] 16:3
high-demand [1] 15:23
higher [1] 93:22
highlight [2] 10:2 11:7
high-strength [1] 35:2
high-tension [1] 15:15
historic [1] 26:13
historical [4] 21:15 102:8,16,21
history [2] 54:9 93:14
hitting [1] 35:24
hold [4] 6:21,24 30:8 114:3
holding [1] 70:6
hole [1] 96:24
holes [2] 98:6,7
homes [3] 19:12 21:21 32:14

hope [3] 43:19 66:20 95:18
hopefully [1] 57:15
hoping [2] 44:6 79:22
hotel [3] 73:4 78:11,14
hour [4] 83:14 101:21 105:24 108:13
house [1] 97:19
housing [15] 72:8 73:13,16,20,22 74:1,2 76:16,16 77:9,9 78:19,20 79:16 80:7
how/what [1] 100:10
however [2] 25:17 53:8
huge [2] 101:4,6
humane [1] 92:7
humpback [2] 87:2 90:3
humpbacks [1] 86:21
hundred [5] 16:16 40:3 46:13 79:17 99:6
hunt [1] 85:5
hyannis [6] 108:21 109:14 110:13,15,20,24
hydrostatic [1] 22:16
hypothetically [1] 60:22

I

ia [1] 74:10
idea [4] 20:13,17 53:8 54:17
ideas [2] 54:16 68:13
identify [1] 60:6
idman [10] 2:21 23:19,20 44:13,14,24 46:2 47:13 76:2,2
ignoring [1] 66:19
ii [1] 44:18
immediately [2] 73:2 110:13
immense [1] 96:1
immigration [1] 87:23
impact [18] 8:8 21:3,4 24:12,12,15 25:2 39:20 45:2,8 64:17 89:14 94:5 98:17 103:21,24 104:18,24
impacts [20] 10:9 21:14,16 24:19,23 25:12,13,15,19 28:1,2 40:23 42:8 45:6 52:24 59:21 60:6,8 61:20 65:10
impasse [1] 41:22
impinge [1] 102:4
important [10] 29:19,23 57:19,24 62:14 65:4,13 68:11 91:21 109:13
impressive [1] 77:6
improve [2] 72:21 76:13
improved [2] 30:3 74:9
improvement [2] 40:14 56:10
imputed [1] 28:3
inaudible [2] 99:9 105:12
incentive [41] 1:7,8 3:7,9 71:2,5,9 72:15,24 73:3 74:22 75:7 76:9,9,18 77:2,10,23 78:10,16,21 80:3 82:11 107:2,9,13 108:17,18,23 109:3,6,11,17,20,22 110:15,20 111:8,9,11 112:17
incentives [2] 72:13,21

<p> incentivize [1] 73:23 incentivized [1] 80:2 incidental [1] 98:15 include [2] 50:9,9 includes [3] 25:20 50:4,7 including [2] 77:2,22 income [1] 79:15 inconvenience [1] 19:24 incorporate [1] 48:12 increase [4] 16:6 49:2 80:4 88:9 increased [1] 49:6 increases [1] 42:1 incredible [1] 37:13 incredibly [1] 92:18 indicated [2] 31:5 52:5 indiscernible [2] 96:14 104:17 individuals [1] 93:9 indulgence [1] 83:5 industrialized [2] 103:21 105:1 industry [2] 96:12 98:2 infection [1] 89:5 information [7] 9:18 58:21 74:4 95:15 102:6,15,23 informative [1] 106:12 infrastructure [6] 41:9 42:4 47:3 49: 17,19 51:4 initially [2] 11:3 39:20 initiated [1] 77:16 inject [1] 16:2 injury [1] 85:21 inn [1] 73:2 in-pavement [1] 24:9 in-road [1] 54:11 inspect [2] 36:22,23 inspected [1] 35:11 inspections [1] 36:17 install [2] 31:11 42:3 installation [1] 8:12 installing [1] 41:8 instead [2] 45:22 66:18 institute's [1] 75:14 integrated [1] 27:7 integrity [2] 28:14 33:21 intend [3] 38:17 57:14 98:11 intended [3] 14:10 56:1 77:14 intent [2] 97:16 98:8 intention [2] 29:16 57:10 interest [4] 59:13,13 74:20 106:7 interested [1] 63:1 interfere [1] 17:22 interference [1] 55:24 internally [1] 35:11 intervals [1] 35:12 intervene [1] 95:21 introduce [2] 9:1 39:1 </p>	<p> introduced [1] 85:6 introduction [1] 34:1 investment [2] 72:3,14 involved [3] 58:6 64:15 70:16 irish [1] 91:6 island [1] 87:17 isn't [4] 90:6 102:19 104:17 109:4 isotopes [1] 90:20 issue [13] 27:17 29:21 43:1 58:24 59:1 64:12,13 65:12,13,21 66:4 90:1 99:15 issues [17] 11:10 27:16,22 28:19 35:22 47:3 51:10 65:3,5,6,7,8 66:13 84:9 89:7 103:13 111:12 item [4] 71:4 106:1 107:5 114:3 itself [3] 12:10 49:4 50:15 </p> <hr/> <p style="text-align: center;">J</p> <hr/> <p> jack [1] 44:1 jackie [3] 43:17 102:1 103:19 jacqueline [14] 2:9 5:3,4 43:18 103:20 104:2,22 105:5,12 110:12,17,22 112:9,12 japan [3] 100:3,5,6 jeeping [1] 36:24 jenkins [2] 42:21,22 joanne [1] 81:17 jobs [1] 16:23 john [26] 2:15,16 5:20,22 6:3,4 29:4,5 30: 4,20 32:4 44:2 45:17 46:22,23 49:9,12 52: 2,4 68:24 69:17 80:16 81:11,24 82:14 113:1 joined [1] 71:19 jointly [1] 27:10 jon [12] 23:19,20 44:12,14,24 46:2 47:12, 13 68:13 76:2,2 79:3 jonathan [1] 79:8 jonathon [1] 2:21 joy [11] 4:20,22 32:8,9 33:9 44:9,10,19 45:15 63:13 69:10 joyce [1] 2:8 jr [10] 2:15 5:21,22 44:2 68:24 69:17 80: 16 81:11,24 82:14 july [1] 10:23 june [1] 116:16 jurisdiction [3] 24:17 28:2 91:15 justify [5] 59:20 61:5,16,17 62:8 </p> <hr/> <p style="text-align: center;">K</p> <hr/> <p> karen [9] 71:16,17 75:22 79:12,24 80:5, 13,19 81:13 kathy [2] 71:20 81:14 keegan [1] 9:9 keep [4] 68:15 75:4 77:19 84:24 kevin [6] 2:13 5:14,16 102:1 106:3,6 key [5] 10:2 11:7 14:11 36:4 54:5 kicking [1] 75:12 kill [2] 85:5 101:5 </p>	<p> killed [1] 80:24 killing [2] 93:23 94:9 kind [9] 54:2,24 55:21 56:11 57:17 63:11 75:3 78:12 88:2 kindly [1] 52:8 kindness [1] 52:6 knowledge [2] 30:7,18 known [4] 36:24 81:20 88:11 90:11 koehler [12] 9:2,5,9 32:19 33:14,16 34: 14 51:24 52:17 59:7 63:6 66:22 kristy [7] 2:20 108:11,12 110:14,19 111: 5,18 </p> <hr/> <p style="text-align: center;">L</p> <hr/> <p> lakewood [1] 1:20 land [5] 18:9 21:2 63:8 75:13 101:7 landowners [1] 22:6 lane [4] 17:12 20:16 50:5 54:8 lanes [4] 50:19,23 55:17,18 large [2] 35:10 46:13 largely [1] 11:14 larger [3] 80:6 110:2,7 large-scale [2] 73:1 93:8 last [11] 17:1 22:4 28:15 32:9 33:17 36:3 44:11 67:6 72:19 74:20 98:18 late [2] 53:22 108:13 later [1] 19:5 laudable [3] 48:10 53:8 60:13 laughter [2] 34:16 81:20 law [3] 9:9 91:14 98:8 laws [1] 47:19 lawyer [2] 33:23 52:18 layout [5] 25:11 40:3,4 46:13 48:2 leadership [1] 43:1 leak [1] 33:12 learn [1] 103:17 least [9] 16:14 17:1 32:24 40:23 54:13 56:12,15 58:9 64:16 leave [1] 31:4 left [2] 15:10 70:6 legal [2] 92:16,24 legislation [2] 98:6,7 legislative [2] 97:15 98:7 legitimate [3] 55:23 60:3 62:19 len [1] 5:8 lend [1] 45:13 length [8] 14:9 17:19 20:20 26:7 40:18 50:24 56:4,24 leonard [2] 2:11 5:10 less [3] 29:6 31:5 91:17 letter [8] 11:4 27:10,12,17,24 39:17,23 53:22 letters [4] 27:13 56:8 78:15,17 level [2] 55:6 109:24 liabilities [1] 63:3 library [1] 90:19 </p>
--	---	---

lieu [2] 22:17 54:17
life [1] 41:12
lifted [1] 38:3
lifting [1] 38:6
light [3] 34:11 57:17 62:13
light's [2] 34:13,15
likelihood [1] 31:23
likely [1] 75:7
limbs [1] 17:21
limited [3] 10:9 31:19 95:20
linda [3] 1:12 116:4,14
line [18] 1:5 3:4 8:2,5,11 14:3,8,8 18:13
 24:4 26:19 33:7 44:16 46:6 48:19 69:15
 91:18 94:21
lines [2] 15:15 17:17
link [1] 94:8
list [3] 53:2 54:2 67:2
listed [2] 26:20 86:7
listen [1] 68:5
listening [2] 47:7 57:20
litigations [1] 92:17
little [12] 13:14,16 14:15 15:7 20:12 29:
 12 39:15 85:12,24 88:14 97:5,5
live [7] 19:14 33:10 58:5 100:19 103:10,
 17,17
lives [1] 87:17
livestock [1] 93:19
lng [8] 16:1 17:2,4 29:6,10,18,18 31:24
lobster [1] 91:18
local [16] 12:13 13:22 16:21 19:2 22:24
 27:23 40:16 47:17 65:22 66:9 72:20,21
 81:6 87:8 89:14 109:24
locate [4] 39:21 40:2,21 41:2
locating [1] 25:12
location [2] 35:19 41:20
locations [1] 21:16
locks [1] 93:4
lofty [1] 85:9
logical [1] 40:22
logistically [1] 101:8
logistics [1] 92:15
long [8] 29:21 38:7 57:18 75:5,5 90:14
 93:14 114:22
longer [1] 20:1
look [16] 9:13 20:14 35:13 60:10 68:3 78:
 12 87:19 89:17 93:13 94:9 95:4,10 98:5
 102:14 105:14 107:20
look-ahead [1] 52:11
looked [5] 20:22 29:12 48:17 92:23 94:4
looking [12] 30:21 48:14 68:4,16 72:14
 73:10 78:7 79:15 80:24 90:2 91:10 111:8
looks [2] 18:17 21:23
lot [21] 28:19 34:23 51:10 54:23 56:16
 71:23 80:10 85:15 86:23 89:17 90:11 91:
 13 94:19 99:15 100:20,20 102:14,19 104:

8,9 112:2
lots [1] 63:6
love [1] 88:15
low [2] 15:20 79:15
lower-cape [1] 16:9
lowest [1] 48:18
low-hanging [1] 17:21
lumped [1] 60:14
lynx [1] 93:15

M

ma [1] 1:21
made [7] 10:6 13:18 48:23 74:19 76:18
 80:7 91:19
magnitude [1] 12:8
main [21] 1:15 14:23 31:16,17,18,19,20,
 20 36:9,13 39:21 40:2,21 41:3,12,13 44:
 15 51:5,9,15 116:11
maine [2] 92:23 93:5
maintain [4] 16:8 24:21 28:14 85:7
maintained [1] 15:24
major [7] 25:8 41:4,6 51:22 76:12 96:11,
 11
majority [2] 87:15,16
mammal [9] 3:11 83:5,8 84:1,21,23 85:
 16 105:15,22
mammals [3] 85:4 86:11,14
managed [1] 86:11
management [10] 19:20 25:21,24 27:4
 76:22 84:10 92:2 93:15 95:23 105:18
manager [1] 37:24
managers [1] 54:14
mandates [1] 10:12
mandatory [1] 91:19
many [5] 15:24 37:10 41:4 53:4 102:12
map [2] 14:1 15:7
mapping [1] 46:10
march [2] 19:5 22:8
marine [14] 3:11 83:1,5,7,9,21,24 84:21,
 23 85:4,16 86:10,14 105:21
marked [1] 35:19
market [3] 100:3 101:1,3
mary [1] 5:24
marshpee [2] 2:10 5:5
mass [1] 13:2
massachusetts [21] 1:2,14,16 13:9
 26:13,14 36:15 83:9,21 86:19 87:10,14
 88:11,18 89:6 91:19 95:2 102:22 116:2,6,
 12
master [1] 24:13
match [1] 55:18
materials [3] 27:14 76:21 77:5
matter [2] 47:4 84:9
max [1] 88:6
maxim [3] 2:18 6:9,10
maximum [1] 85:10

maynard [1] 13:2
mccaffrey [3] 2:10 4:24 5:1
mccormack [11] 2:15 5:21,22 44:2 68:
 24 69:17 80:16 81:11,24 82:14 109:3
mcdonald's [1] 100:24
mckenna [3] 37:23,24 38:11
mean [12] 45:3 46:5,7,15 61:6 99:2 100:
 9,23 101:20 102:15 104:6,10
means [5] 30:4 47:7 48:24 49:2,6
measures [2] 21:11 33:13
meat [5] 100:3,6,7,11 101:3
mechanism [1] 86:13
meet [4] 16:4 21:5 63:21,22
meeting [9] 4:1 6:21,24 22:7 54:17 67:4
 73:21 80:8 115:1
meetings [3] 13:5 22:11 63:23
meets [4] 40:24 42:9,14 48:18
members [18] 9:7,7,12 11:5 69:8,24 71:
 20 81:16 82:5,19 83:11,12 112:1,7 113:4
 114:15,17,19
mention [1] 48:21
mentioned [8] 15:18 16:13 17:8 20:18
 21:19 23:6 27:2 46:24
mentioning [1] 111:6
mentions [1] 56:9
mepa [4] 10:18 12:1 22:16 24:16
message [1] 73:10
met [3] 51:16 54:14 76:8
metals [1] 100:16
methods [1] 105:1
metropolitan [1] 67:19
michael [32] 2:6,18 4:14,16 6:9,10 9:2,5
 32:19 33:14,16 34:14 51:24 52:17 59:7
 63:6 66:22 69:3 96:6,10,23 97:3,11,14,18,
 23 98:19 99:5 100:2,13,18 101:9
microphone [3] 34:4 39:1 43:13
mid [2] 16:9 63:15
mid-2000s [1] 74:18
mid-cape [7] 14:23 30:13 38:2,5 44:11,
 15 64:1
middle [3] 14:14 18:22 34:20
might [10] 20:14 30:10 55:3 59:3,15 63:
 4 79:1,1 94:14 96:4
mike [8] 9:8 12:22,23 13:23 34:1,16 52:
 14 96:7
mike's [1] 34:1
mile [3] 15:11 17:9 18:22
miles [7] 8:13 15:5,12 17:7 34:18,19 56:
 4
milk [1] 100:22
million [14] 42:2 47:2 48:22,24 49:1,5,
 17 50:15,17 51:2 53:19 55:14 56:13 80:9
mind [1] 68:15
minimization [1] 12:7
minimum [1] 89:19

minor [3] 21:17 108:16 110:6
minority [2] 2:16 6:2
minute [1] 67:13
minutes [4] 6:18,19 13:13 54:4
misspoke [1] 104:23
mistaken [1] 56:15
mittell [77] 2:12 4:3 5:12,13 6:13 8:4
 9:3,6 23:12,16 28:8 29:3 32:5 34:3 37:6,
 17 38:19 42:19 43:11,24 44:9,12 45:17
 46:20 52:2,14 57:21 67:12 69:4,9,11,19,
 22 70:1,7,13,17 71:3 75:21,23 79:3 80:14
 81:3,19 82:3,6,8,17,20 83:2 96:2 101:15,
 20 103:19 105:23 106:8,11,14 107:4 108:
 9 110:10 111:13,21 112:2,5,8,10,14,23
 113:2,5 114:2,8,11,16,18,20
mitigate [1] 52:24
mitigates [1] 42:8
mitigation [7] 25:18 40:9 41:19 45:8 50:
 4,6,13
mixed-use [2] 72:9 73:15
mmpa [10] 84:3,14 85:3,8,17 86:5,7,9
 92:1 93:3
mmpa's [1] 91:14
modification [2] 46:5 109:7
modifications [1] 46:16
modified [2] 46:3,15
modifying [1] 111:10
money [12] 58:4 59:2 80:10 88:13 90:5,
 9 96:16 98:1,2 99:16 100:1,15
monitoring [2] 33:21,22
monomoy [1] 94:22
month [1] 75:13
months [5] 17:3 23:9 57:15 108:22 110:
 4
moratorium [4] 37:21 38:3,6 64:16
moratoriums [1] 38:15
mortality [1] 85:21
most [4] 33:5 41:14 71:22 72:16
motel [15] 72:4,6,6,7,17,23 73:13,17,22
 74:2,5,21 75:8 78:10,13
motels [1] 72:8
motion [19] 69:4,12,20 70:19,21 81:22
 82:3,7,9,17,21,22 111:24 112:15,21,24
 113:8 114:13,14
motives [1] 58:23
mouths [1] 104:20
move [12] 6:17 19:1,23 49:22 57:16 68:
 7 69:1 74:24 75:4 83:5 101:16 106:5
moved [8] 14:12 69:18 82:1,15 108:8
 112:1,22 114:15
movement [2] 87:23 90:12
moves [1] 17:23
moving [4] 46:6,11 71:3 106:15
mpo [1] 67:19
ms [95] 2:20 4:6,9,12,14,17,20,22,23 5:2,

4,5,7,8,11,14,17,20,23 6:2,5,8,11 28:12
 32:9 33:9,15 34:10 42:21 43:18 44:10,19
 45:15 63:13 69:10 70:12 71:16 75:22 79:
 7,12,21,24 80:1,5,11,13 82:2 83:18 96:9,
 21,24 97:10,13,17,22 98:13 99:4,14 100:
 4,7,9,16 101:2,12,14,18 102:2,8,9,13,18,
 19,24 103:20,24 104:2,5,22 105:3,5,10,12,
 14 106:10,13 108:11 110:12,14,17,19,22
 111:5,18 112:9,12
much [24] 6:14 12:20 14:9 25:1 30:14
 31:21 46:15 48:11 51:9 53:23 70:20 74:
 17 80:12 83:3 84:11 88:6 89:4,11 93:1 99:
 20 104:17 106:9 113:7 114:21
multi-family [1] 72:8
multiphase [1] 14:5
municipal [1] 22:10
murphy [4] 31:13,13 36:6,9
must [2] 42:3,7
mutual [1] 42:14
mutually [1] 59:11

N

name [6] 9:8 12:23 39:4 42:22 71:17 83:
 20
narrow [1] 96:4
narrowness [1] 19:8
national [25] 8:10,12,24 9:10 21:6 22:5
 26:14 39:8,12,20 40:1,7 41:1 42:5,7,15
 43:6 45:11 57:1 64:11,14,21 65:21 66:4
 101:7
native [3] 2:17 6:5 102:15
near [1] 21:24
necessarily [3] 41:5 45:1 109:4
necessary [5] 20:1 24:1 49:14 72:13
 77:19
necessitate [1] 11:22
need [28] 12:6,10,12 13:15 17:2,15,24
 20:19 21:1 23:1 29:9,17 33:17 48:14 50:
 20 58:11 59:21 63:10,18 68:8,15,17 83:
 19 95:1 99:14,22 106:1 110:6
needing [1] 31:23
needs [4] 43:5 48:15,18 105:22
net [2] 88:21 104:15
nets [2] 88:23 104:10
netting [1] 85:18
never [2] 32:16 92:22
new [18] 11:22 16:15 17:7 34:22 46:18
 61:10,11 64:3 73:4 78:7,11 79:14 88:21
 100:3 109:17,22 111:9,11
next [9] 6:21 19:4 30:5 31:12 57:14 75:6,
 13,13 110:4
nexus [2] 53:13 60:4
nice [6] 45:16 52:7,11 63:4 68:9 79:22
niedzwiecki [4] 2:19 64:8 114:6,9
nitty-gritty [1] 95:3
nmfs [1] 95:8

nobody [1] 33:1
nondestructively [1] 35:4
none [7] 6:17 21:21 38:23 43:14 79:10
 81:7,8
non-lethal [1] 95:8
nor [1] 101:13
norm [1] 81:15
north [1] 20:15
northbound [2] 17:23 20:16
northeast [1] 97:21
northside [1] 17:12
northwest [2] 87:16 97:20
notary [3] 1:13 116:5,15
note [1] 37:8
notes [1] 107:20
notice [1] 53:3
notified [3] 32:13,16,17
notify [1] 32:12
noting [1] 53:19
notwithstanding [2] 27:17 107:22
nuisance [4] 87:3 93:7,8 98:22
number [7] 48:23 49:11,24 55:5 67:3 80:
 4 84:8
numbers [2] 29:13 77:4
numerous [2] 10:20 11:17
nurse [1] 103:6

O

objection [2] 46:8 69:6
objections [1] 55:5
objective [2] 53:7 60:13
obligation [2] 50:22 55:12
observe [1] 37:9
observer [1] 88:21
observing [1] 88:23
obvious [1] 98:20
obviously [4] 19:10 86:6 89:2 97:6
occasions [1] 11:17
occur [3] 20:19 45:10 92:6
occurred [2] 87:1 111:2
occurring [2] 104:21 110:24
ocean [2] 103:12,16
october [3] 71:10 72:18 82:13
offer [2] 53:18 65:16
offered [1] 26:8
officer [2] 2:21 23:21
officials [7] 13:19 27:15 38:22,22,24 43:
 12 81:6
off-road [3] 21:2 54:19 56:19
offset [1] 41:20
offshore [1] 90:14
often [1] 94:16
okay [9] 18:18 32:4 34:9 37:6 57:12 111:
 13,20,22 114:8
older [1] 78:10
oldest [1] 74:5

<p>once [2] 35:22 86:2 one [36] 18:9,10,20,21 19:17 21:16 31:19 44:11 54:5,12,13,16 55:9 56:8 59:5 61:4 62:22 69:11 70:2 78:18 83:12 84:21 86:16 91:12 92:8 95:21 96:13 97:14 105:24 106:1,2 107:4,14,23 108:19 114:2 ones [1] 25:14 ongoing [6] 12:11 33:21 64:22 77:17,21 90:24 only [6] 43:2 48:11 50:7 70:4 74:19 81:12 open [3] 38:21 73:11 81:4 opened [2] 28:16,20 opening [8] 19:21 27:21 47:18,23 57:7,9 65:23 79:4 opinion [3] 27:24 76:7 88:16 opportunities [1] 76:17 opportunity [7] 6:15 34:6 37:9 39:7 42:17 64:9 107:20 opposed [11] 41:17 69:9,12 70:1,4 82:6,20 111:3 112:8 113:5 114:20 opted [1] 40:1 optimum [1] 85:8 option [4] 32:3 41:1 42:7 56:18 orally [3] 8:20 71:11 107:16 order [5] 14:11 17:21 20:12 36:19 42:5 ordinance [1] 112:20 organization [1] 67:19 origin [1] 49:11 originally [1] 61:19 orleans [2] 2:11 5:8 osp [4] 85:7 86:12 88:5 92:12 other [29] 13:9 18:10,14 20:8 21:16 24:6,8 37:18 38:15 43:12 46:21 47:10,19 66:6 80:15 84:8 91:5 93:15 101:9,16,17 103:9,16 105:21 109:10 111:14,21 114:3,12 others [1] 87:12 ought [1] 70:4 out [38] 19:6,12 20:12 23:9 39:9 49:13 54:16,24 58:2,16,19 62:5,7,24 63:11,24 64:6,16 66:10 67:1,2 68:9 81:5 83:19 88:21 89:1,19 90:15 91:2 92:20 94:8,18 95:7 101:6 104:20 105:15 108:15 109:4 outcome [2] 25:6 99:24 outcry [2] 85:15 97:8 outer-cape [1] 96:15 outlined [1] 36:20 out-of-the-road-option [1] 41:18 outreach [2] 13:18 22:6 outset [1] 9:16 outside [5] 18:24 40:2,21 46:12 47:5 over [15] 12:19 14:8,22 17:18 28:1 37:10 39:11 42:2 51:8 57:14 61:18 72:19 95:5,22 99:12 over-fish [1] 98:24</p>	<p>overhead [3] 17:16 18:7,13 overlapping [1] 90:16 overstating [1] 33:4 over-the-road [1] 44:5 overview [2] 83:24 84:13 owner [1] 80:3 owners [1] 72:7 ownership [1] 79:11</p> <hr/> <p style="text-align: center;">P</p> <hr/> <p>p.m [3] 1:17 4:2 115:2 page [2] 3:2 67:4 paid [2] 16:23 55:3 painstaking [1] 35:1 par [1] 28:24 parallel [1] 18:23 paramount [1] 33:20 pardon [1] 96:23 part [16] 14:23 17:13 19:20 22:19 50:3,6,12 55:21 57:3 58:18 65:15 68:10 73:17 86:11 87:7 98:15 participate [1] 65:18 participation [1] 83:15 particular [5] 11:5,8 12:3 60:6,8 particularly [3] 29:20 77:14 109:13 partners [1] 78:21 parts [2] 85:2 90:23 pass [1] 10:1 passed [5] 48:6 70:21 82:7,22 113:8 passes [2] 70:19 113:6 past [3] 37:11 64:23 66:15 pat [1] 5:24 patched [1] 20:3 patches [2] 28:22,23 path [36] 11:16 12:15 40:12,12,15 41:5 45:7 48:9 49:1,18 53:4,7,8,11,14 54:18,18,21,21,22 55:12,13 56:2,5,6,19,24 57:2,3 58:13 60:14,21 61:2 65:9,12 66:6 patience [1] 114:22 patterns [2] 90:12,13 paul [16] 2:19 39:4,5 49:23 52:22 54:6 55:9 56:8 60:7 61:7 62:18 64:8 67:23 114:4,6,9 paul's [2] 59:12 70:9 paved [1] 46:12 pavement [6] 17:11 20:24 39:22 41:3,14,21 pave-the-way [1] 56:1 paving [4] 50:8 51:16 54:8 55:3 pay [5] 16:18 50:14 56:22 58:1 102:11 payment [1] 25:10 people [21] 19:12,13,16 32:15 37:13 57:16,24 58:3,5,7 63:2 86:24 89:7,16 90:8 95:1 96:16 101:17,19 102:12 105:19 per [1] 51:11 percent [8] 17:19 20:19 36:22 79:17,19</p>	<p>88:5,8 94:18 percolating [1] 74:24 perfectly [1] 99:10 perhaps [4] 29:17 30:5 31:11 54:19 period [7] 25:15 29:21 43:12 107:14,15,22,24 periodic [1] 35:12 periods [1] 15:23 permanent [4] 24:19,22 28:23 45:6 permit [7] 12:13 22:24 26:10 37:4 47:23 57:7 67:11 permits [5] 27:22 47:18 62:17 65:23,24 permitted [3] 14:20 24:5 77:21 permitting [7] 13:22 19:3 22:24 27:23 47:17 61:3 62:21 person [2] 32:21 68:20 personally [1] 13:3 perspective [9] 24:10 25:3,7 31:9 54:15 56:14 59:14,16 91:22 petitioned [1] 67:16 phase [37] 1:6 3:5 8:3,10 15:4,10 17:14 21:12 22:1,3 39:10,11,15,18,19,19 40:19,19,21 41:2 50:22,24 51:1 54:9,12 55:11,19,22,22 56:20 57:9,11 62:8 67:2 69:15 75:6,13 phases [6] 14:14,18 22:19 44:17 45:24 62:3 photo [2] 20:15 21:24 picked [1] 75:2 piece [2] 15:2 54:19 pig [1] 35:13 pigged [1] 35:11 pigging [1] 36:18 pipe [22] 8:13 15:5 16:5 17:8,10 21:23 30:15 31:11 34:18,22,24 35:2,5,8,9,10,13,14,17,18,24 55:22 pipeline [20] 11:12 15:23 16:4 18:15 29:22,22 30:2 33:19 35:22 41:20 53:11,12,13 57:4 58:12 60:9,16 63:9 65:9 70:15 pipes [1] 44:23 place [10] 16:11 29:19,24 47:17 58:17 63:11 72:20 73:9 77:20 89:23 placed [2] 17:10 67:21 places [1] 91:5 plan [19] 10:19 16:21,22 19:20 24:13 25:20,24 27:3,4,6,8 29:7 31:6 40:9,14 41:23 42:7 56:11 92:6 planned [4] 29:18 31:10 38:7,8 planner [2] 71:20 81:14 planning [8] 38:5 42:22 67:19 71:19 75:6,12 81:15,16 plans [5] 10:16 11:15 26:24 30:11 35:20 plant [1] 26:20 planted [1] 64:3 planting [1] 20:10</p>
---	---	---

<p>plants [1] 26:17 play [3] 66:10 84:21 91:13 please [6] 34:4 38:24 45:18 69:23 71:15 83:16 plenty [1] 91:5 pneumatic [1] 22:17 podium [3] 6:16 38:21 81:4 Pods [1] 85:18 point [15] 14:17 20:5 36:16 39:9 53:6 54:14 57:19 60:21 62:24 65:14 66:24,24 68:22 87:2 92:9 pointed [3] 49:13 108:15 109:4 points [7] 10:2 11:8 36:4 53:5 54:2,6 95:19 police [2] 16:24 19:11 policy [2] 16:21 84:10 population [20] 85:9,11 86:3 87:18 88:4,7,10,10 89:12,19,21 90:2 92:11 94:18 98:21 102:21 103:23 104:1,13 105:9 populations [7] 85:16 87:24 102:7,10 103:9 104:3,24 porpoise [3] 104:12 105:16,21 position [4] 9:4 39:2 43:3 45:5 positioning [1] 45:22 possibility [3] 16:14 31:4 74:7 possible [3] 19:4 33:11 84:14 possibly [1] 19:5 postings [1] 19:15 pot [2] 91:18 104:14 potential [6] 6:19 65:8,24 66:6 73:23 90:20 powerful [1] 101:3 practice [1] 13:10 precautions [1] 34:2 preceded [1] 34:21 predator [1] 93:13 predecessors [1] 64:21 predominant [1] 35:18 preface [1] 84:2 prefer [2] 40:20 41:18 preferred [1] 41:1 prefiling [1] 22:7 premature [1] 51:13 premise [2] 56:15,16 preparation [1] 24:15 prepare [1] 19:19 prepared [6] 1:12 9:20 19:3 23:21 76:4 116:7 present [11] 4:8,13,19 5:1,4 6:1,10 52:13 64:23 71:15 111:1 presentation [10] 8:24 9:21 23:13,17 39:8 48:9 75:24 83:1,7 108:10 presented [1] 10:14 pressure [1] 16:6 pressures [1] 15:20</p>	<p>pretty [7] 14:9 17:18 19:1 22:22 85:5,9 95:24 prevent [2] 86:1 90:4 previously [1] 24:5 prey [2] 90:19,21 primarily [2] 15:22 25:12 primary [2] 22:23 35:22 principal [1] 12:24 prior [1] 91:20 priority [5] 40:15 46:9 67:18,21 74:15 private [1] 79:11 probably [12] 18:20 19:5 33:3 41:14 66:8 73:7 97:13,22,23,24 102:13 104:23 problem [11] 94:1,7 96:11,11 97:20 98:4 99:1 101:11 102:3,5 104:15 problematic [1] 109:2 problems [1] 63:3 procedure [1] 18:18 proceeding [3] 9:11 10:5 12:3 proceedings [1] 62:24 process [22] 10:11 12:4,14 19:21 22:2,20 30:5 31:7 35:2,7 36:23 37:12 57:7 62:21 64:19 65:1,22 67:11 109:15,23 110:1 114:22 processes [2] 37:13 66:10 processing [1] 100:10 producing [1] 85:13 productivity [1] 85:10 products [1] 99:17 professional [2] 13:8 39:13 program [10] 26:15 34:17 75:14 88:3 92:15 94:13,15,24 95:3,24 programs [2] 93:14 94:17 progress [2] 74:17 79:23 prohibited [1] 85:3 project [98] 1:5 3:4 8:2,6,19 9:12,21,24 10:10,14 11:12,19,24 12:3,7,16 13:3,14,15,17 14:3,4,10,13,24 15:6 16:12 17:13,20 19:1 20:23 21:20 22:1,3,15,20 24:3,4,11,20,22 25:9,12 26:22 27:19 28:3,14 29:16 30:14 31:14,14,17,24 32:10 33:3,14,17 37:20 38:1,2,8,9,11,17 39:18 40:6,7 42:14 44:16,17 45:4,9 46:2 48:12,13,15,17 49:1 52:24 53:1,11,12,13 54:9 57:4 60:4 61:12,15,16,18 62:14 63:16 64:1,6 67:18,24 68:4 79:20 projecting [1] 47:1 projects [19] 26:10 30:11 39:10 45:4 53:10 59:20,21,22,22,24 72:10 73:23 74:8,23 77:20 79:14,16,18 80:6 project's [2] 8:11 69:16 proper [3] 34:22,24 43:21 properties [6] 72:4,7,17 74:21 75:9 78:14 property [3] 16:18 72:6 73:18</p>	<p>proposal [7] 31:17 41:18 42:6 50:3,4 60:15 112:16 proposals [1] 73:24 propose [1] 41:19 proposed [15] 1:9 3:10 8:12 11:11 24:14 25:17 28:3 48:19 58:21 60:9 65:11 74:2 107:3,8,12 proposing [7] 11:20 17:6 26:21 33:7 48:19 50:14 60:5 prospective [1] 31:15 protect [1] 98:20 protected [4] 24:23 83:22 86:7 93:20 protection [9] 3:11 25:22 27:6 35:8 83:1,6,8 84:1,22 protections [3] 86:3,13,20 protective [1] 21:11 protocols [1] 25:22 prove [1] 62:10 provide [4] 50:21 51:8 55:13 74:8 provided [7] 16:10,15 24:24 25:24 40:10 53:3 76:21 provides [2] 31:21 66:21 provincetown [1] 5:11 proving [1] 109:1 provision [4] 48:5 64:12 92:1 93:6 provisions [3] 19:11 35:20 109:11 pruning [1] 43:21 public [37] 1:4,13 3:3,6,8 6:16 7:1 8:1,5,7 9:8 13:18,19 19:24 21:13 25:11 38:21 43:12,12 47:21,22 48:1 69:1,5 71:1,6 81:7,23 85:15 97:1 107:1,8 109:23 111:22,24 116:5,15 publicly [1] 62:6 pull [1] 86:2 pun [1] 56:1 pups [1] 93:21 purpose [2] 80:10 107:12 purposes [2] 76:13,20 pursuant [1] 77:23 pursue [2] 56:19 93:2 pushing [1] 94:1 put [12] 12:14 19:15 45:22,23 48:1 53:21 56:9 64:9 67:17 83:12 89:19 109:21 putnam [7] 2:14 5:18,19 99:8 100:5,8 101:13 putting [1] 45:23</p> <hr/> <p style="text-align: center;">Q</p> <hr/> <p>quality [4] 72:22 89:7,9 96:19 question [13] 29:7,13 31:2 32:6,20 43:16 45:18 46:14 49:15,20 79:8 105:24 106:3 questions [28] 9:14 11:6 13:24 26:18 28:5,9 37:18 38:21 42:18 43:10 46:21 52:16 75:20 78:24 79:4,5 80:15 81:9 83:10 91:12 96:3 99:16 101:16,22 110:8,10 111:</p>
--	---	---

<p>14,22 quick [2] 18:16 67:13 quickly [4] 19:2,24 23:6 75:4 quite [7] 15:19 30:9 35:1 49:10 52:6 86:18 103:22 quorum [2] 6:12 106:2</p> <hr/> <p style="text-align: center;">R</p> <hr/> <p>radio [1] 87:12 rail [2] 40:17 43:7 raised [5] 27:22 33:7 47:5 65:3 69:10 ran [1] 64:11 range [1] 93:24 rapidly [1] 80:23 rare [1] 21:7 rate [2] 88:9 93:22 ratepayers [1] 48:7 rather [3] 66:16 98:5 105:17 reach [3] 32:18 44:21 45:1 read [2] 97:4 102:20 reading [2] 92:19 94:16 real [6] 58:12 61:3 67:13 74:6 92:9 95:19 realize [4] 29:9 55:6 57:17 109:5 really [37] 24:8,18 25:6 28:12 31:2,20 32:12 34:21 35:16 40:4 46:15,23 49:4 55:8 56:15 57:4,12 63:13 68:20 74:19 75:3 77:7,18,24 78:10 80:23 86:5,23 91:2,6 94:7 95:2 98:11,21 101:3,10 105:22 reason [7] 15:17 46:7 49:20 55:21 57:3 59:23 61:24 reasonable [2] 55:1,7 reasonably [1] 23:6 reasoning [1] 39:16 received [5] 11:1 27:10,12 53:22 56:8 recent [2] 87:11 108:22 recently [5] 14:21 73:19 86:21 95:7 99:17 recession [1] 80:23 recognize [4] 46:5 53:7 80:21 81:12 recognizes [1] 36:12 recommendations [1] 25:4 recommended [1] 42:11 recommends [3] 23:23 27:20 76:5 record [5] 9:8,18 10:8 34:5 78:17 records [1] 102:17 recover [1] 86:1 recovered/proliferated [1] 86:18 redevelop [1] 72:7 redevelopment [6] 72:2,4 73:11,11,22 74:7 reduce [4] 17:2 29:16 44:4 85:20 reduced [2] 41:12 64:3 reduction [2] 98:14,18 refer [1] 66:23 reference [1] 11:13 referenced [3] 27:9 48:8 79:18</p>	<p>referring [1] 38:1 refine [1] 72:20 refuge [1] 101:7 regard [3] 11:19 41:4 42:10 regarding [2] 9:21 39:18 regardless [1] 12:9 region [2] 53:9 94:2 regional [12] 8:8 16:21 24:11,12,19 25:2 28:1 39:19 40:16 45:2 64:13 65:13 regionally [2] 24:22 45:6 registered [1] 13:8 regs [1] 110:7 regulation [2] 59:19 110:3 regulations [10] 1:8 3:9 76:10,23 107:3,6,9,11 108:17 112:17 regulators [2] 59:19 60:18 regulatory [5] 2:21 23:20 24:10 58:18 64:22 reinforce [3] 14:5,10 31:18 reinforcement [10] 1:5 3:4 8:2,6,11 14:4 24:4 38:8 44:17 69:15 reinforces [1] 16:16 reinforcing [1] 15:18 reiterate [1] 80:18 related [10] 11:11 12:15 25:14,19 28:1 45:8 49:7 52:24 53:1 68:14 relates [2] 49:11 84:1 relations [1] 32:20 relationship [4] 39:12 64:10,20,22 relative [4] 19:8 48:16 92:11 102:3 released [1] 95:15 reliability [2] 48:15 61:21 reliable [2] 16:8 64:12 rely [1] 17:2 remain [2] 29:19,24 remainder [1] 13:21 remaining [1] 15:2 remains [1] 22:23 remarks [2] 44:6 54:3 remember [3] 22:19 28:15 36:3 remind [1] 66:14 remote-operated [1] 21:18 removal [1] 88:3 remove [2] 86:13,14 rental [1] 79:19 rentals [2] 79:10,13 reopened [1] 20:2 rep [2] 2:16,17 repairs [2] 28:22 37:1 repaving [4] 20:6 26:7,11 50:11 replaced [1] 35:7 replacement [4] 14:23 30:14 38:2 44:16 replacing [1] 30:14 report [8] 3:13 6:23 24:15 75:11 77:5 89:</p>	<p>18 114:1,4 reported [1] 77:3 reporter [2] 1:13 116:5 reporting [1] 1:19 represent [1] 58:3 representative [3] 6:3,6 81:20 reproducing [2] 88:4,8 request [15] 8:18 26:16,20 27:19,21 64:24 65:15 71:7 75:2,18 76:3,11 80:7 82:12 83:11 requested [4] 65:17,19 69:14 108:5 requests [1] 61:23 require [2] 46:18 50:10 required [8] 17:13 20:9,18 24:14 26:22 45:24 91:18 109:23 requirements [4] 16:4 36:19 72:11 76:8 requires [3] 24:11 51:5 100:1 research [1] 18:3 residences [2] 21:20 46:10 residency [1] 90:12 residential [1] 72:10 residents [1] 64:17 resolution [1] 66:12 resolved [1] 12:13 resolving [1] 47:4 resource-intensive [1] 12:4 resources [5] 21:15 24:23 46:9 89:3 92:10 respect [3] 12:2 53:14 60:20 respond [1] 59:8 responds [1] 45:3 response [2] 27:11 84:22 responsibility [1] 92:16 responsible [1] 56:20 responsive [1] 39:13 restoration [2] 20:4,8 restore [1] 85:19 restrictive [1] 91:16 result [5] 10:20 26:19 40:6 85:17 91:9 results [2] 40:23 93:20 retaining [2] 50:11 73:17 reversed [1] 38:16 review [10] 10:11 21:9 24:13,18 25:6 45:2 47:10 72:11 73:8 111:2 reviewed [3] 32:10 65:1 108:1 reviews [1] 14:2 revised [1] 77:22 richard [13] 2:4,7 4:9,11,17,19 37:20 38:9,18 69:21 111:15,20 112:22 richardson [9] 2:3 4:7,8 57:23 62:22 63:7 70:3,14 108:8 rid [1] 94:22 ridiculous [1] 99:2 ripped [1] 89:1</p>
---	---	---

<p>risky [1] 92:18</p> <p>road [65] 1:20 8:14,14 11:16 15:9,11,13, 14,16 17:12,18 18:4,8,13,17,21 19:9,9 20: 1,10 21:9 25:11 28:17,22 32:16 39:21 40: 2,4,22 41:3,12,13,21 42:4 44:23 45:23 47: 17,22 49:4 50:5,10,21,24 51:13,15,16,17 52:9 54:12,20,23 55:16,23 56:4,6,24,24 57:7,9 61:1 64:2,4 65:23 67:16,22</p> <p>roadwork [1] 26:6</p> <p>robust [1] 25:19</p> <p>roger [7] 2:14 5:17,19 99:8 100:5,8 101: 13</p> <p>role [1] 91:13</p> <p>roll [1] 4:4</p> <p>room [4] 62:19 68:20 84:16,16</p> <p>root [1] 57:5</p> <p>roughly [2] 16:16 18:21</p> <p>round [5] 32:7 37:18 38:20 79:5 80:15</p> <p>route [17] 18:9 19:16 20:20 21:24 28:20 71:8 72:2,4,17 74:1,3,5,11,14 76:14 78: 13 82:10</p> <p>roy [9] 2:7 4:18,19 37:20 38:9,18 111:15, 20 112:22</p> <p>royden [11] 2:3 4:7,8 57:22,23 62:22 63: 7 70:3,8,14 108:8</p> <p>rpp [1] 108:3</p> <p>rules [3] 91:15,16,17</p> <p>run [1] 35:13</p> <p>runs [2] 14:9 15:10</p> <hr/> <p style="text-align: center;">S</p> <hr/> <p>sable [1] 87:17</p> <p>safe [2] 35:18 37:12</p> <p>safeguards [1] 33:11</p> <p>safety [8] 33:12,18,20 34:2,17 36:20 41: 10 51:10</p> <p>sagamore [11] 1:5,21 3:4 8:2,5,10 14:3, 8 24:4 44:16 69:15</p> <p>salmon [1] 93:5</p> <p>same [10] 25:7 28:18 30:6 33:17 34:18 40:20 57:10 77:19 87:21 99:21</p> <p>samples [1] 90:21</p> <p>sandwich [33] 2:12 5:12 8:15 10:21 11: 2,10 14:19 15:12 16:18 17:9 18:12 19:13 21:21 22:13 26:8 27:11 30:24 39:5 40:19 41:16 42:16 45:20 47:1 50:16 51:1,12,22 53:20 60:23 61:8 65:12,20 67:14</p> <p>sandwich's [1] 68:1</p> <p>sat [1] 63:2</p> <p>satisfy [2] 12:5 48:16</p> <p>save [2] 97:9,12</p> <p>saved [1] 32:1</p> <p>saw [1] 53:21</p> <p>saying [5] 33:4 52:20 58:10 70:18 98:10</p> <p>scale [1] 73:6</p> <p>scat [1] 90:22</p>	<p>schedule [5] 13:20,23 22:14 38:10,12</p> <p>scope [4] 31:15 92:14 94:24 95:24</p> <p>sea [2] 91:6,6</p> <p>seal [18] 84:3 87:17 89:5,12,18 96:13 99: 16,17 100:3,6,7,11 101:3 102:6 103:23 104:1 105:2,16</p> <p>seals [38] 84:17 86:17 87:4,10,14 88:18, 20 89:1,3,8,14 90:18,22 91:3,4,9 93:11 94:3,9 95:2 96:18 97:12 98:22 99:1,2,6,9, 12,16,20 102:4,21 103:8,14 104:10,17,20 105:9</p> <p>season [2] 19:7 23:10</p> <p>seasonality [1] 38:14</p> <p>second [16] 10:13 69:3,5,20,21,23 71:4 82:2,4,18 112:3,24 113:1,3 114:16,17</p> <p>seconded [2] 82:16 112:4</p> <p>second-round [1] 43:15</p> <p>section [5] 67:4 92:3 93:3 108:2 112:16</p> <p>sections [1] 108:2</p> <p>secure [1] 70:9</p> <p>see [14] 13:5 52:10 63:21,23 64:7 65:6 67:20 68:21 70:2 79:22 96:21 101:21 104: 14 114:4</p> <p>seeding [1] 20:10</p> <p>seeing [6] 6:16 37:18 38:23 43:14 81:6, 8</p> <p>seek [2] 42:12 48:1</p> <p>seeking [1] 78:6</p> <p>seeks [1] 77:17</p> <p>seemed [4] 54:24 55:7 105:6,7</p> <p>seems [2] 47:4 55:20</p> <p>seen [5] 14:3 72:22 74:17,20 105:10</p> <p>segment [13] 1:6 3:5 8:3,11 14:14,18, 22 15:4 18:22 34:20,20 44:17 69:16</p> <p>segments [2] 24:5,6</p> <p>seine [1] 85:18</p> <p>selectmen [1] 74:12</p> <p>senate [1] 97:19</p> <p>senatori [7] 2:20 108:11,12 110:14,19 111:5,18</p> <p>send [1] 73:10</p> <p>sense [3] 56:17 58:12 87:22</p> <p>sensitive [2] 25:23 101:7</p> <p>separate [5] 53:10 54:18,22 56:6 93:9</p> <p>september [4] 1:10 4:4 53:23 116:9</p> <p>series [1] 22:11</p> <p>serious [1] 85:20</p> <p>seriously [1] 67:9</p> <p>serve [5] 18:11 54:8 59:17,18 84:9</p> <p>serves [1] 60:19</p> <p>service [31] 8:14 11:16 15:11,12,14,16 16:8 17:12 18:4,13,17 39:21 40:3 41:3,12, 13,21 47:21 50:5,24 51:8 54:19 55:16 56: 4,24 60:17,18,18 64:4 67:16,21</p> <p>set [5] 20:5 80:9 86:5 105:20 110:2</p>	<p>several [5] 13:9 14:14 29:15 57:15 110: 4</p> <p>shall [2] 108:1,4</p> <p>shared [1] 54:18</p> <p>shared-use [4] 40:12,15 41:5 56:5</p> <p>shark [1] 102:10</p> <p>sharks [7] 89:6 96:16 98:4 102:20 103:2, 6,15</p> <p>shearing [1] 43:21</p> <p>shi [2] 79:9,20</p> <p>shooing [1] 95:13</p> <p>shoot [1] 93:18</p> <p>shooting [1] 93:24</p> <p>shore [1] 103:22</p> <p>shoring [1] 51:10</p> <p>short [7] 2:11 5:9,10 19:13 22:15 75:3 109:19</p> <p>short-term [2] 16:23 78:3</p> <p>shot [1] 20:13</p> <p>shoulders [3] 50:5,8,13</p> <p>shouldn't [1] 86:24</p> <p>show [3] 31:1 61:18 93:21</p> <p>shown [1] 89:8</p> <p>shut [1] 38:15</p> <p>side [6] 15:9 17:23 18:9,10 45:23 55:17</p> <p>sight [1] 77:7</p> <p>sign [3] 21:7 22:16 48:13</p> <p>significant [6] 21:2 24:23 41:15 45:6 47:6 84:23</p> <p>significantly [1] 25:4</p> <p>silky [1] 103:5</p> <p>silly [1] 55:21</p> <p>similar [2] 77:24 78:4</p> <p>simple [1] 60:15</p> <p>simply [3] 12:14 31:3 49:15</p> <p>simultaneously [1] 18:20</p> <p>since [6] 13:3 29:12 74:11 89:17 98:9 104:8</p> <p>sinking [1] 91:18</p> <p>sit [1] 58:16</p> <p>sites [1] 89:10</p> <p>siting [13] 10:17 11:24 12:2,6 29:14 61: 13,15,19,24 62:4,9,10,11</p> <p>situation [5] 30:19,22 98:23 99:18,21</p> <p>situations [1] 52:9</p> <p>six [1] 96:13</p> <p>size [1] 92:15</p> <p>skelley [19] 2:6 4:15,16 69:3 96:6,7,10, 23 97:3,11,14,18,23 98:19 99:5 100:2,13, 18 101:9</p> <p>skeptical [1] 97:5</p> <p>slipping [1] 101:21</p> <p>slope [1] 50:9</p> <p>small [2] 105:17 110:5</p> <p>smaller [4] 73:6,12,13 79:18</p>
---	--	---

<p>smart [2] 35:13 36:17 solution [7] 16:5 43:5 45:1 57:11,16 59:12 101:10 solutions [1] 74:13 solve [1] 103:14 somebody [1] 105:6 someday [1] 44:7 someone's [1] 30:24 sometime [1] 105:18 sometimes [2] 93:20 98:24 somewhat [2] 18:4 109:2 soon [1] 95:15 sorry [5] 27:12 83:18 104:22 105:4 110:17 sort [19] 13:10 32:2 41:22 52:11 58:6,18 64:13 65:23 84:16 87:4 89:4 90:1 93:17 94:1 95:12,18 100:10 104:12,19 sought [1] 78:6 sound [1] 99:3 source [1] 87:18 sources [1] 66:7 south [4] 16:1 17:4 29:24 94:4 speaker [1] 105:6 spearheaded [1] 67:15 specialist [1] 83:22 species [17] 21:6,7 26:15,20 83:22 85:23 86:6,17,22 87:7 90:6,21 92:3,17 93:16 95:5,23 specific [3] 24:20 64:24 67:2 specifically [1] 105:20 specifications [2] 50:10 51:16 speculate [2] 30:9,21 speechifying [1] 57:18 spend [4] 47:2 90:9,14 100:15 spill [1] 25:21 spring [1] 19:4 spurred [1] 77:13 ss [1] 116:3 stab [1] 29:11 stable [1] 90:20 staff [21] 2:2 9:7,17 22:8 23:18,23 27:4,18 45:14 52:23 63:23 65:2,18 68:5 75:16 76:1,3 83:23 108:10 109:16,17 staff-level [1] 109:15 staff's [7] 23:21 25:3,3,6 27:24 45:5 76:7 stamped [1] 37:5 stand [3] 52:13 65:5,11 standards [6] 10:12 12:6 36:11,20,21 37:3 standpoint [1] 92:18 start [15] 4:4 8:4,23 18:20,21 19:4 23:7 53:18 68:22 75:6 79:4 80:22 81:5 103:10,12 started [4] 34:16 52:20 64:1 67:14</p>	<p>starting [4] 67:6 91:1 99:3 101:21 starts [2] 15:8 34:21 state [20] 22:9 36:20 40:16 56:9,22 59:19 81:6 84:4,10,16 91:13,16 92:3,5,10 93:6 95:5,21,22 98:11 state/federal [1] 38:23 stated [4] 24:3 55:10 80:19 97:7 statement [2] 48:23 107:21 states [4] 13:9 84:2,15 92:4 statute [1] 47:20 statutory [1] 10:12 stealing [1] 88:20 steel [2] 17:7 35:2 step [1] 43:13 steps [1] 29:15 stick [1] 101:22 sticking [2] 53:5 92:9 still [13] 5:12 29:8 38:5 46:16 51:15 57:6 66:10 68:17 89:15 99:1 101:4,6 106:1 stimulate [1] 72:13 stock [10] 76:15 78:11 86:2 87:17,20,20 89:17 100:23,24 105:22 stocks [9] 84:23,24 85:20 86:1 91:3 94:5,6,10 102:4 stopped [1] 100:22 storage [1] 29:18 stormwater [2] 25:21 76:22 story [2] 84:12 87:5 straight [2] 35:10 93:18 straightforward [3] 22:22 85:24 93:21 street [4] 1:16 19:20 33:8 116:11 street-opening [4] 12:13 22:24 62:17 67:11 stress [1] 68:7 stretch [11] 15:8 18:4,8,8,12,17 19:13,17 21:14,20 55:16 stretches [1] 14:11 striped [6] 54:21 55:11,17,18 96:14 98:20 student [1] 88:15 studied [1] 94:7 studies [3] 89:8 93:21 105:11 study [6] 26:16,19 53:24 87:11 96:22,24 subject [5] 11:21 19:21 59:18 72:10 84:9 submit [6] 53:5,9 61:9,11,12 112:15 submits [1] 12:9 submitted [9] 8:22 10:7,22 20:24 27:5 39:17,23 71:13 107:18 subsequently [1] 24:16 substantial [2] 10:8 74:20 substantially [2] 17:18 46:12 substantiation [1] 49:5 success [2] 73:1,15 successes [1] 73:6</p>	<p>successful [2] 40:7 77:11 sufficient [1] 76:10 suggesting [1] 19:16 suggestion [1] 55:1 suit [1] 91:24 summer [3] 19:6 23:10 38:14 supervising [1] 43:20 supplement [3] 14:11 15:23 29:9 supplemental [1] 32:2 supply [8] 14:6 15:19,24 16:4,16 21:13 29:22 31:9 support [4] 10:3 24:1 63:16 78:15 supporting [1] 10:8 supportive [1] 66:11 supports [2] 43:5 76:3 suppose [1] 52:7 surveys [1] 89:22 survival [2] 93:22 104:16 sustainable [1] 85:8 system [9] 13:16 15:20,21 16:3,7 29:22,23 30:15 74:10 systems [1] 91:8</p> <hr/> <p style="text-align: center;">T</p> <hr/> <p>table [5] 53:21 64:15 66:17 67:1,4 take-away [1] 95:19 talkative [1] 36:7 talked [6] 32:24 55:19 63:2 91:4 95:6 100:21 tank [2] 17:5 29:23 tanker [1] 44:5 tax [2] 79:16 80:2 taxes [2] 16:18 47:8 taylor [31] 2:5 4:6,9,12,13,14,17,20,23 5:2,5,8,11,14,17,20,23 6:2,5,8,11 28:12 79:7,21 80:1,11 82:2 102:2,9,18,24 team [1] 9:12 teams [2] 98:14,18 technical [3] 42:13 45:13 75:14 technically [2] 21:9 36:11 ted [12] 9:22 12:22,24 23:15 29:11 30:7 33:24 34:8,12,15 36:7 53:17 telemetry [1] 87:13 temperature [2] 103:2,11 temporarily [1] 20:3 temporary [3] 25:14,18 30:5 ten [1] 74:16 tends [1] 38:16 term [4] 1:7 3:7 71:2,8 terms [5] 18:12 20:4 58:9,22 59:19 tested [1] 35:4 testify [3] 8:20 71:11 107:16 testing [2] 22:17,17 themselves [1] 109:12 therefore [1] 12:17 there's [40] 14:7 17:12 18:10 21:2,3 22:</p>
---	---	--

<p>10 25:8 26:5 31:6 35:7,21 46:7,13 47:19 48:11 49:4 51:20 52:10,12 53:10,11,12 54:9 57:3 62:19 67:1 68:19 86:23 87:21 88:14 89:11 90:1,11,12 93:3,5 95:7,20 100:16 112:2</p> <p>they'll [2] 103:6,9 they've [4] 25:11 26:15 88:12 91:4 thieves [1] 89:5 thinks [1] 59:2 thinning [1] 35:14 third [2] 10:24 108:20 thorough [1] 39:8 though [3] 32:12 77:10 101:4 thoughtful [1] 114:10 thousand [2] 16:17 99:6 three [4] 14:20 23:9 46:7 108:18 thresher [1] 103:5 threshold [1] 109:9 thresholds [3] 73:8 77:22 109:5 throughout [1] 114:22 throw [1] 99:15 thrown [1] 90:5 thursday [2] 1:10 116:9 tight-lipped [1] 95:14 tilton [11] 39:4,5 42:24 46:24 49:10,12, 21,23 53:3 54:3 67:23 timeframe [1] 109:19 timely [1] 19:3 timing [1] 20:7 today [29] 4:3 9:15,19 10:4,15,19 12:16, 21 15:3 30:17 39:7 41:2 48:20 52:20 61:9 62:15,19 63:14 64:24 65:15 68:4 71:19 75:17 95:18 96:13 108:19 110:16 111:16 114:22 today's [1] 66:21 together [3] 68:6,8 70:5 tom [1] 81:17 took [2] 91:3,8 top [1] 36:2 topic [1] 75:11 topography [1] 46:11 total [1] 29:8 totally [1] 63:16 touched [1] 22:9 toward [1] 15:15 town [65] 12:14 14:19 15:13 17:10 19:22 22:12 27:12,14,18 30:23 35:20 37:11 38: 13 39:6,22 40:4,8 41:4,9,10 42:3,8,23 43: 4 47:1 49:16 50:16,17 51:1,11 53:20,20 54:14 55:5 56:7,18 58:7 60:23,23 63:21 65:3,4,11,20 67:21 68:1 71:7,14,18,20 72: 5,14 73:21 76:7,17,21 77:1,11,17 80:1,8 81:14 108:5 109:16,21 towns [55] 10:20 11:9,17 12:8,12,14 16: 18 19:19 20:6 22:12 23:2 26:4,8,13 27:10,</p>	<p>21,22 29:1 30:22 38:15,24 39:13 40:19, 24,24 41:15,24 42:1,6,9,15 44:22 45:11, 19 51:21 53:6 56:20 57:9,24 58:1,5,15 59: 11 62:17 63:2 64:15 65:6,19 66:11 67:10 68:17 70:8 78:5 96:15 98:1</p> <p>towns' [6] 11:4,13,15,18 58:22 80:7 town's [2] 72:23 80:8 town-wide [1] 74:12 tracked [1] 77:1 traffic [5] 19:20 25:15 26:1 41:14 77:2 trail [4] 40:17 43:7 67:15 68:19 training [2] 13:8 26:21 transcript [2] 1:12 116:7 transfer [2] 92:2 93:10 translate [1] 17:3 transmission [2] 36:14,21 transportation [3] 40:13 56:10 67:17 travel [2] 25:24 27:3 trawlers [1] 104:10 treatment [2] 74:9,10 treatments [4] 50:9,11 51:3,4 tree [7] 17:12,15,20 20:14,17 23:1 43:20 trees [5] 17:17,23 21:1 43:22 64:3 trend [2] 89:21,24 trial [1] 68:2 tricky [1] 101:8 tried [2] 95:9 102:13 triggered [1] 24:16 triggers [1] 24:12 trimmed [1] 17:24 trimming [6] 17:15,20 20:14,17 23:1 43: 20 tripped [1] 73:7 trips [1] 17:4 trophic [1] 91:1 trouble [1] 60:13 truck [2] 17:4 31:24 trucks [5] 29:7,9 30:1 31:6 44:5 true [2] 89:14 116:7 truro [2] 2:13 5:14 trust [3] 73:20 78:19 80:7 try [6] 47:14 58:2 59:10 78:24 90:17 98: 20 trying [5] 83:19 90:4 91:2 92:19 98:6 tuna [1] 85:18 turn [2] 12:19 16:7 turned [3] 62:5 64:6 79:10 turtle [2] 26:21 27:6 turtles [1] 21:11 tweak [1] 98:12 tweaked [2] 98:9,13 two [17] 14:18,21 18:16,19 21:16 22:18 23:8 53:10 68:6,12 70:18 73:24 78:19 80: 5 81:16 87:24,24 two-month/three-month [1] 18:24</p>	<p>two-part [1] 36:24 type [1] 110:23 typical [2] 20:14 24:8 typically [1] 36:18</p> <hr/> <p style="text-align: center;">U</p> <hr/> <p>u.s [8] 85:4 86:19 87:19,20 88:10 90:13 93:16 104:7 ultimate [2] 29:7 62:4 ultimately [5] 24:13 40:11 59:24 92:24 109:24 undeniable [1] 64:13 under [26] 8:14 20:24 24:7,16 25:10 27: 23 36:13 38:4 39:21 41:3,12,13,20 44:23 48:3 51:9,15 64:2,2 77:20 85:7 86:7,8 92: 3 110:24 111:7 underground [2] 18:14 44:23 underneath [1] 45:22 understand [6] 56:21 67:24 68:5,17 70: 17 94:13 understanding [5] 32:23 42:10 66:5 72:12 83:13 understands [1] 34:6 undertaken [1] 26:16 undertaking [2] 101:4,6 underway [2] 23:10 30:15 unfortunately [4] 41:22 50:7 74:16 90: 9 uniform [2] 50:20,23 unintended [1] 94:14 unique [1] 86:9 uniquely [1] 18:5 units [5] 73:13,16,24 74:2 80:4 university [1] 87:11 unknown [2] 89:11,15 unlikely [1] 32:1 unrelated [3] 11:19 12:15 48:12 until [4] 6:20 57:13 82:13 87:11 unwittingly [1] 35:23 up [27] 6:15 13:2 17:24 28:16,17,20,24 31:1 36:16 38:21 43:13 47:8 50:2 53:4 60:1 64:2 67:15 68:22 73:15 86:6 88:24 100:23 103:4,7,12 107:15,24 update [1] 76:15 updated [1] 98:17 upset [1] 32:11 urban [1] 75:13 urinating [1] 96:18 using [3] 20:7 36:10 87:12 utilities [13] 18:3,6,7,11,14 40:5 41:9 48: 1,5,5 58:24 59:2,4 utility [4] 17:17 24:9 40:23 55:23 utilization [1] 72:23 utilizing [1] 73:20</p> <hr/> <p style="text-align: center;">V</p> <hr/>
--	--	---

vacant [1] 5:12
valves [1] 21:18
various [1] 9:12
vent [1] 21:23
vents [1] 21:18
verbatim [2] 1:13 116:4
versus [3] 38:15 54:11 65:9
vhb [1] 49:24
via [2] 55:3 74:9
viable [1] 42:6
vice [8] 5:22 44:2 68:24 69:17 80:16 81:11,24 82:14
vicinity [1] 15:14
view [1] 98:5
views [1] 18:16
virgilio [4] 5:6,7 37:8 52:5
vis-à-vis [2] 103:23 105:1
visibility [1] 64:4
vision [1] 43:7
visual [2] 21:16 40:8
volume [1] 116:7
vote [7] 58:20 66:21 68:23 69:6 70:11 110:15 111:16
voted [1] 72:5
votes [1] 70:18
voting [2] 10:4 63:14

W

walk [1] 13:13
wall [2] 35:14 50:11
wanted [8] 31:15 39:20 77:11 85:7 95:18 97:9,12 104:23
wanting [2] 58:24 105:19
warm [1] 29:17
warming [1] 103:12
warms [1] 103:4
warn [1] 96:16
warranted [1] 87:6
washington [1] 93:4
wastewater [4] 74:9,9,13 77:3
watch [1] 99:8
water [13] 21:13 41:11 50:1 51:7,12 87:7 89:7,9 96:19,20 102:12 103:1,4
waters [4] 85:4 86:19 89:6 104:7
way [19] 19:3,23 29:15 35:18 43:8 46:12 47:22 55:13 59:5 65:19 72:3 74:4 80:11 86:4 87:1,4 88:12 90:10 104:13
ways [1] 72:2
weare [1] 81:15
weather [2] 15:22 29:21
weeden [3] 2:17 6:6,7
weeks [1] 63:20
welcome [4] 8:21 75:22 80:13 107:17
welcomed [1] 71:12
weld [2] 35:3 36:17
welded [2] 17:7 35:3

welding [1] 35:6
welds [2] 36:23 37:1
wellfleet [2] 2:14 5:17
werlin [1] 9:9
wesson [3] 1:12 116:4,14
west [2] 8:15 20:15
westbound [1] 17:11
western [9] 1:6 3:5 8:3,11 14:18 15:4 34:20 44:17 69:16
wetland [1] 21:3
wetlands [2] 25:23 46:9
whale [4] 86:8 90:3,3 91:22
whales [5] 84:5,7 87:2 97:9 104:14
whaling [1] 85:18
whatever [3] 32:15 58:14 91:11
whereupon [1] 114:24
whether [6] 8:16 26:18 33:20 63:1 65:14 105:15
white [4] 98:4 102:20 103:2,15
whitetip [1] 103:5
whoi [1] 96:22
whole [5] 54:23 56:16 57:7 96:17 97:6
who's [1] 9:23
widen [1] 55:15
widened [1] 54:20
widening [1] 55:11
wiggle [1] 84:16
wildlife [2] 93:15 101:7
will [69] 6:21 8:7,16 9:21 11:8 12:12 15:6,13 16:7,9,13,17 17:2,3,10,14,24 19:1 24:3 26:2,6,7 31:5 33:16,17 34:17 35:4,19 37:20 38:2 40:11 43:21 44:4 49:17 51:14 52:21 56:5 57:11 65:16,18 66:14 67:10 68:7,10,17,18 70:8,10,10 71:6,11 74:8,14,23 78:23 79:16 81:9,22 82:9 93:19,23 95:14 103:7 107:7,16 108:14 109:20 110:19 114:3
williams [2] 71:21 81:14
willing [1] 45:14
windrift [1] 73:14
winter [5] 15:22 17:3 29:17 32:15 38:16
wise [1] 80:2
wishing [3] 8:20 71:11 107:16
within [12] 14:19 25:10,11 40:3 46:16 47:22 48:2 76:23 77:1 78:12,20 109:6
without [1] 44:19
wolves [2] 93:16,19
wondered [1] 31:8
woods [1] 96:24
word [1] 53:4
words [1] 101:10
work [34] 9:17 11:9 13:10 18:19,22 20:2 22:23 23:4 24:8,9 25:9,22 26:23 28:13 32:11 33:11 37:9,13,15 45:21 51:5 55:8 58:2 59:11 63:10,24 64:15,18 83:20 84:4,8 88:

13 90:24 109:21
worked [4] 57:8 62:7 64:13 67:23
workers [2] 41:11,11
working [16] 13:3 18:19 20:24 21:8 22:3 38:1,12 39:10,12 41:11 52:22 62:16 66:18 67:9 68:18 72:1
worksites [1] 19:10
world [1] 59:2
worlds [1] 54:21
worm [1] 89:5
worried [1] 31:12
worth [1] 54:6
written [9] 8:17,21 11:1,13 23:21 69:13 71:12 82:10 107:17
wrote [1] 27:21

X

x-rayed [1] 35:4

Y

yarmouth [29] 1:7 2:15 3:7 5:20 14:15 16:1 17:5 29:24 37:22 65:4 71:2,4,7,15,18 72:1 74:3,4,11 76:14 78:4,9,18,19 79:8 81:19 82:10 108:19,24
year [10] 15:1 22:4,4 54:13 74:20,22 78:1 80:22 88:5,8
years [22] 14:17,20 15:19 30:6,10 31:12 37:10 39:11 42:3 43:22 67:24 71:10,23 72:19 73:4 74:17 75:19 77:18 78:2 82:13 91:20 109:4
york [1] 100:3
yourself [2] 9:1 39:1

Z

zone [37] 1:7,8 3:7,9 23:4 71:2,5,9 72:16,24 73:3 74:23 75:7 76:9,10,18 77:2,10,23 78:10,16,21 82:11 107:2,9,13 108:17,24 109:18,20,22 110:15,20 111:8,9,11 112:17
zones [3] 108:18 109:3,6
zones' [1] 109:11
zoning [3] 76:19,20 77:6