

CITY COUNCIL  
CITY OF NEW YORK

-----X

TRANSCRIPT OF THE MINUTES

of the

COMMITTEE ON WATERFRONTS

-----X

October 27, 2008

Start: 10:44am

Recess: 12:35pm

HELD AT: Council Chambers  
City Hall

B E F O R E:  
MICHAEL C. NELSON  
Chairperson

COUNCIL MEMBERS:  
Gale A. Brewer  
Melissa Mark-Viverito

## A P P E A R A N C E S

## COUNCIL MEMBERS:

Anthony Como

## A P P E A R A N C E S (CONTINUED)

Venetia Lannon  
Senior Vice President, Maritime Department  
New York City Economic Development Corporation

Kathryn McGuckin  
Assistant Vice President, Maritime Department  
Director of Dredge Material Management Program  
New York City Economic Development Corporation

Tom Wakeman  
Professor, Davidson Laboratory  
Stevens Institute of Technology

Tom Shea  
Project Manager  
United States Army Corps of Engineers

Roland Lewis  
President and CEO  
The Metropolitan Waterfront Alliance

Edward Kelly  
Executive Director  
Maritime Association, Port of New York/New Jersey

Kathleen Wah  
New York City Economic Development Corporation

1  
2 CHAIRPERSON NELSON: --including  
3 its economic benefits, the environmental concerns,  
4 the legal and regulatory requirements of dredging  
5 projects and, of course, the costs associated with  
6 dredging and disposal.

7 The Committee also looks forward to  
8 hearing the details of EDC's new Dredge Material  
9 Management program. And, our first panel will  
10 consist of Kathryn McGuckin, of New York City EDC,  
11 Venetia Lannon, also of New York City EDC, and I  
12 think it's Dr. Tom Wakeman, Davidson Laboratories,  
13 the Stevens Institute of Technology in Hoboken and  
14 Mr. Tom Shea of the U.S. Army Corps of Engineers.  
15 Please, if the first panel would begin. And,  
16 before you speak, whoever's going to speak first,  
17 would just identify themselves for the record.  
18 Thank you.

19 MALE VOICE: Good morning.

20 VENETIA LANNON: Hi. Ready? Good  
21 morning, Chairman Nelson and members of the  
22 Waterfronts Committee. My name is Venetia Lannon.  
23 And, I am Senior Vice President of the Maritime  
24 Department at the New York City Economic  
25 Development Corporation. With me here today is,

1  
2 to my left is Kathryn McGuckin, Assistant Vice  
3 President in the Maritime Department and Director  
4 of our Dredge Material Management program.

5 EDC would like to thank the New  
6 York City Council for convening this hearing on  
7 dredging in the New York Harbor and for inviting  
8 EDC to offer testimony to report on the progress  
9 that has been made to date, as well as the  
10 challenges that lie before us. By way of  
11 introduction, EDC is a public benefit corporation  
12 empowered by the City of New York via its Maritime  
13 contract to retain the City's maritime businesses,  
14 attract additional maritime business to the City  
15 and to promote maritime agreements for the City's  
16 waterfront properties. Dredging to maintain  
17 adequate water depths throughout the Harbor and at  
18 the City's waterfront berths is paramount to  
19 fulfilling these responsibilities. I will now  
20 turn it over to Kathryn to provide today's  
21 testimony.

22 KATHRYN MCGUCKIN: Thank you,  
23 Venetia. My name is Kathryn McGuckin. And, my  
24 testimony today will center on three topics;  
25 dredging, what it is and why it's needed, the cost

1  
2 of dredging and Dredge Material Management, what  
3 it is and why it's needed.

4 Dredging, the removal of sediments  
5 from waterways, allows for the survival and  
6 continued growth of the entire port of New York  
7 and New Jersey, the third largest port complex in  
8 the U.S. and the largest on the East Coast, as  
9 previously stated by the Chairman. Furthermore,  
10 maintenance dredging of waterfront berths located  
11 throughout the five boroughs, publicly and  
12 privately owned, is essential to maritime-related  
13 economic growth.

14 The United States Army Corps of  
15 Engineers, along with their local sponsor, the  
16 Port Authority of New York and New Jersey, is  
17 presently deepening the New York/New Jersey Harbor  
18 to a depth of 50 feet, the largest deep draft  
19 navigation project in U.S. history. Maintenance  
20 dredging to maintain depth is a constant in the  
21 Harbor with frequency varying throughout the  
22 Harbor's many rivers, bays and channels. As an  
23 example, the Passenger Ship Terminal on the  
24 westside of Manhattan requires annual dredging of  
25 approximately 300,000 cubic yards of sediments

1  
2 annually. Facilities on the East River, such as  
3 the South Brooklyn Marine Terminal, require  
4 dredging less frequently, about once every five  
5 years. The volume of sediment deposited in any  
6 given area is dependent upon several factors, most  
7 notably the flow rate of the water body and the  
8 number, size and shape of waterfront structures.

9           Historically, open water disposal  
10 at an ocean site has been the primary method of  
11 disposing of sediments dredged from the New  
12 York/New Jersey Harbor Estuary. The New York  
13 Bight Dredge Material Disposal Site, known as the  
14 Mud Dump Site, was designated in 1984 for disposal  
15 of up to 100 million cubic yards of dredge  
16 material from the Port and nearby Harbors. The  
17 Mud Dump Site and its environs located 5.3  
18 nautical miles east of Highlands, New Jersey and  
19 9.6 nautical miles south of Rockaway, New York,  
20 has historically been the major option for dredged  
21 material disposal since 1914. An average of four  
22 to five million cubic yards of dredged material from  
23 the New York/New Jersey Harbor has been disposed in  
24 the ocean each year.

25           In July 1996, in the interest of

1  
2 maintaining sustainable port development and  
3 environmental protection of the estuary and  
4 ocean, a letter signed by the Administrator of  
5 the U.S. Environmental Protection Agency and the  
6 Secretaries of the Departments of the Army and  
7 Transportation set forth the Administration's Plan  
8 to close the Mud Dump Site for disposal of dredged  
9 material. In a final rule that became effective  
10 September 29th, 1997, EPA de-designated and  
11 terminated the use of the 2.2 square nautical mile  
12 area of the Mud Dump Site. Simultaneous with the  
13 closure of the Mud Dump Site, the site and a 13.5  
14 square nautical mile area surrounding the site  
15 were re-designated as the Historic Area  
16 Remediation Site, also known as HARS.

17 Pursuant to this rule, the HARS is  
18 restricted to receive only dredged material  
19 suitable for use as Remediation Material which is  
20 defined as uncontaminated dredged material; more  
21 specifically material that meets the Category I  
22 standards set for the former Mud Dump Site and  
23 which does not cause significant undesirable  
24 effects, including through bioaccumulation.

25 On September 27th, 2000, to ensure

1  
2 that the remedial goals of the HARS would be met,  
3 the U.S. Environmental Protection Agency  
4 tightened the guideline for PCBs in dredged  
5 material placed at the HARS from 400 parts per  
6 billion in worm tissue to 113 parts per billion  
7 in worm tissue. This significant, more stringent  
8 change resulted in approximately 75% of the  
9 region's dredging projects being ineligible for  
10 placement at the HARS, which in turn resulted  
11 in the affected parties, being the Corps, the  
12 Port Authority and waterfront businesses, both  
13 public and private, taking a more focused look  
14 at other possibilities for beneficial reuse of  
15 dredged material. Upland beneficial reuses for  
16 dredged material include construction fill,  
17 brownfields remediation, landfill closures and  
18 wetland/habitat enhancement. Dredged material  
19 from New York/New Jersey Harbor has been used for  
20 these and other beneficial uses.

21 The bioassay tests required to  
22 determine the HARS suitability of dredged material  
23 as well as the conditioning of sediments,  
24 generally the addition of cement, and testing  
25 required for beneficial reuse of dredged material

1  
2 at upland sites significantly affect the cost of  
3 dredging projects. Prior to the closure of the  
4 Mud Dump Site, the cost of dredging, including  
5 placement at the Mud Dump Site, was approximately  
6 \$4 per cubic yard. Today the cost averages about  
7 \$16 per cubic yard plus the cost of the required  
8 bioassay test, which adds approximately \$242,000  
9 per composite sample to the total project cost.

10 EDC recently paid \$836,000 to  
11 determine whether sediments from the Passenger  
12 Ship Terminal were suitable for HARS placement.  
13 The cost of dredging roughly 300,000 cubic yards,  
14 including transport to the HARS for placement,  
15 was approximately 2.8 million. The project also  
16 included about 69,000 cubic yards of project  
17 sediments that were deemed unsuitable for HARS.  
18 This material was retested for suitability for  
19 beneficial use upland and upon being deemed  
20 suitable, was dredged, processed with cement and  
21 beneficially reused as landfill closure material  
22 at a cost of approximately \$5.5 million. Total  
23 cost of the Passenger Ship dredging project  
24 approximated \$9.1 million compared to the  
25 approximately \$2 million cost of eight years ago.

1  
2 Understandably a portion of the  
3 increase in the cost of dredging is due to the  
4 rising costs of labor, fuel and conditioning  
5 materials like cement. However, additional costs  
6 related to testing of dredged material have  
7 significantly increased the per cubic yard cost of  
8 dredging. The cost of bioassay testing required  
9 for determination of HARS suitability of dredged  
10 material, is approximately 242,000 per composite  
11 sample; upland testing runs approximately 15,000  
12 per composite sample for pre-dredge testing and  
13 \$1,200 per composite sample for pre-placement  
14 testing. Furthermore, the basic components of  
15 dredging and placement, such as fuel and cement,  
16 are commodities subject to lower prices when  
17 purchased in higher volumes. In the end these  
18 fixed costs makes dredging a volume economics  
19 business, the greater the volume of material  
20 proposed to be dredged the lower the per cubic  
21 yard cost.

22 As an example imagine three  
23 separate and distinct, yet geographically co-  
24 located dredging projects all proposing HARS  
25 placement, a moderately sized marina dredging

1  
2 50,000 cubic yards, the EDC's annual dredging of  
3 300,000 cubic yards from the Passenger Ship  
4 Terminal and a one million cubic yard Army Corps  
5 Federal Navigation Channel dredging project.  
6 Since the three projects are co-located, the  
7 mobilization and demobilization costs can be  
8 expected to be the same for each, approximately  
9 \$200,000. All three projects will submit one  
10 HARS composite for testing and analysis, about  
11 \$242,000. Therefore the per cubic yard cost of  
12 mobilization, demobilization and HARS testing for  
13 the three projects breaks down as follows; for the  
14 marina \$8.84 per cubic yard; for the Passenger  
15 Ship Terminal \$1.48 per cubic yard; for the  
16 Federal navigation channel project \$0.45 per  
17 cubic yard. Similarly, because the dredger can  
18 lock in a better price for fuel when purchasing  
19 large volumes, a lower per cubic yard price for  
20 the actual dredging of a high-volume, million  
21 cubic yard project can be expected to be less than  
22 for a 50,000 cubic yard project.

23 Dredging with beneficial reuse  
24 upland has similar economies of scale. However,  
25 project cost has two major differences. First,

1  
2 testing for upland placement is significantly  
3 less, costing \$15,000 per composite sample for  
4 pre-dredge testing and approximately \$1,000 per  
5 composite sample for pre-placement testing.

6 Second, placement costs are about \$110 per cubic  
7 yard. Placement costs are expected to escalate to  
8 two to three times today's cost of \$110 if local  
9 placement sites reach capacity with no new sites  
10 coming online.

11 In summary, the cost of dredging  
12 to small and moderately sized businesses,  
13 regardless of whether the placement site is the  
14 HARS or an upland beneficial use site, can almost  
15 be 20 times higher than for Federal projects of  
16 large volume, an amount so onerous as to be  
17 prohibitive.

18 Planning, in the form of local and  
19 regional dredged material management, seems to be  
20 the best way to reign in and possibly control  
21 escalating dredging costs.

22 The New York/New Jersey Harbor has  
23 a Dredged Material Management Plan, a DMMP, that  
24 serves as an important guide for the appropriate  
25 treatment and/or placement of material dredged

1  
2 pursuant to the Harbor Deepening Project as well  
3 as maintenance dredging of Federal Navigation  
4 Channels. EDC was a partner in the preparation of  
5 the original DMMP as well as the recently  
6 released 2008 update. To ensure that the  
7 approach to dredged material management  
8 remains environmentally and economically  
9 sound, the DMMP is a dynamic document that will  
10 be revised periodically to reflect the most  
11 current information relevant to dredged material  
12 management.

13           The implementation of the DMMP  
14 requires communication, coordination and  
15 cooperation-- and no coughing-- against and  
16 between a myriad of Federal, State and City  
17 agencies. To that end, a monthly Regional Dredge  
18 Team meeting and a quarterly Senior Partners  
19 meeting are convened. The City is represented  
20 at these meetings by EDC, the City's Office of  
21 Environmental Coordination and City Planning.

22           The recently implemented EDC  
23 Dredged Material Management Program is a direct  
24 result of being a participating member of the  
25 Regional Dredge Team. It is designed to

1  
2 beneficially use dredged material from throughout  
3 the New York/New Jersey Harbor Estuary region as  
4 alternative fill material at City-owned and/or  
5 privately owned sites requiring grading fill  
6 anywhere in the City. Eliminating the cost of  
7 fill for redevelopment projects through the  
8 beneficial reuse of dredged material is projected  
9 to result in up to \$30 million in savings to New  
10 York City and \$9 million in savings to EDC during  
11 fiscal year 2009. The Program anticipates  
12 collecting approximately \$3 million in placement  
13 fees during fiscal year 2009, 15% of which will be  
14 directed to a Dredged Material Management Fund,  
15 designed to assist local businesses with dredged  
16 material management issues through a grant and/or  
17 low- interest loan program.

18 A pilot project undertaken  
19 pursuant to the new Dredged Material Management  
20 Program resulted in savings to City Parks of  
21 approximately \$900,000. Placement fees of \$68,700  
22 were collected, with just over \$10,300 being  
23 directed to the Dredged Material Management Fund.

24 The most significant impediment--I  
25 can do this-- to the success of the Dredged

1  
2 Material Management Program will be the fact that  
3 in the State of New York dredged material is  
4 classified as a solid waste. Defining dredged  
5 material as a solid waste generally means that it  
6 must be regulated as such. As a result, public  
7 perception of dredged material tends to be negative  
8 and the use of dredged material is met with a  
9 variety of regulatory hurdles. Regulating  
10 dredged material as a "waste" severely limits  
11 beneficial reuse projects because the philosophy  
12 behind solid waste management is one of containing  
13 wastes to prevent their escape into the  
14 environment. Though recycling or reuse of wastes  
15 has become commonplace in municipal, and to some  
16 extent, industrial waste management, the same  
17 concept has not yet pervaded the area of dredged  
18 material management. As a result, regulating  
19 dredged material as a solid waste, even under a  
20 series of exemptions, known as Beneficial Use  
21 Determinations or BUDs, is not optimal.

22                   Technically, once granted a BUD,  
23 the exempted dredged material is no longer a  
24 waste. However, it is still perceived as such  
25 even though its use as grading fill requires it

1  
2 to meet the same site-specific chemical  
3 specifications as all other fill being accepted.  
4 Needless to say contractors are reluctant to use  
5 dredged material and communities reluctant to  
6 embrace it because of the stigma attached to solid  
7 waste. Thank you.

8           Beyond a doubt there is dredged  
9 material that is highly contaminated and  
10 unsuitable for beneficial reuse at upland sites.  
11 However, the same can be said of most any type of  
12 fill proposed as grading material. Declassifying  
13 dredged material and managing it as a regulatory  
14 material will provide the testing and oversight  
15 necessary to ensure the health and welfare of the  
16 public and the environment while allowing for a  
17 myriad of beneficial reuses.

18           The EDC Dredged Material Management  
19 Program will be a significant asset to finding  
20 upland beneficial reuses for the cleaner dredged  
21 material coming from the New York/New Jersey  
22 Harbor. It does not, nor was it meant to,  
23 address the fate of the dredged materials too  
24 dirty to be used as grading fill at City  
25 redevelopment sites and yet not dirty enough to be

1  
2 classified as hazardous waste. The management of  
3 these dirtier materials, after stabilization with  
4 cement, has to date included use as below-the-liner  
5 landfill closure material and mine reclamation  
6 material. It is management of these not clean,  
7 yet less than hazardous, sediments that is the  
8 true challenge, management that is  
9 environmentally and economically sound. This  
10 will require a multi-multi agency, regional  
11 approach to research, create and implement  
12 beneficial reuse opportunities.

13 To recap, the economic vitality  
14 and continued growth of the Port of New York and  
15 New Jersey, the third largest Port complex in the  
16 United States, is dependent upon keeping the  
17 Federal Navigation Channels and Port berths  
18 dredged. Regulating dredged material as a waste  
19 severely limits beneficial reuse projects.  
20 Dredging is expensive and the cost of dredging  
21 has become onerous for small and moderately sized  
22 businesses. The cost of dredging will continue  
23 to escalate unless local and regional beneficial  
24 reuse opportunities are identified and brought  
25 online. Dredge Material Management is a federal,

1  
2 state and city multi-agency responsibility  
3 requiring immediate action and solutions that are  
4 environmentally and economically sound.

5 I thank you for your time. Please  
6 note that, for your convenience, our presentation  
7 has been attached to the back of the testimony.  
8 I'll now turn it over to Venetia and for any  
9 questions you may have.

10 CHAIRPERSON NELSON: I know that  
11 Professor Wakeman has to get back to teach class  
12 soon. So, I don't know if you need to speak next?

13 KATHRYN MCGUCKIN: Oh, his students  
14 won't mind if he's not there, will they? I never  
15 minded when the Professor didn't show.

16 CHAIRPERSON NELSON: Get the - -  
17 right?

18 TOM WAKEMAN: Miss McGuckin really  
19 provides you a broad description of the issues  
20 that face the City, as well as the region. What  
21 I'm planning to do based on the [off-mic] was to  
22 simply give you 101, very basic. It turns out  
23 that Mr. Shea's office is going to do something  
24 similar.

25 Most ports, whether they be coastal

1  
2 ports or river ports need to be dredged because  
3 they get sediment in from the drainage basins or  
4 they get sediment from moving along the coast.  
5 When we try and bring a ship up to the land, we've  
6 got to make the berth there for them. Modern  
7 ships, because of economies of scale and because  
8 trade policies we put in place over about the last  
9 25 years has caused all trade to be part of a  
10 global marketplace. That said, containerization,  
11 which also evolved around here starting in 1956,  
12 has caused larger and larger ships to be built.  
13 And, we're at about the eighth generation of  
14 container ships at this point.

15 Ports are significant economic  
16 engines. But, more importantly, ports are now the  
17 commercial gateways that we have to the world in  
18 order to get goods. About 50% of the goods that  
19 we use in this nation, excuse me, in our region,  
20 that's shows how provincial I am, come from our  
21 local port. About 30% come from LALB, which is  
22 hitting its capacity very quickly because they're  
23 not able to build new projects. They don't need  
24 dredging. However, they need expansion, a plan.  
25 And, about 20% come from along the other East

1  
2 Coast ports. In other words, if we lose parts of  
3 other ports, which we could from the West Coast,  
4 we will not be able to take care of the consumer  
5 demands that we have in this region.

6 The other thing that becomes a  
7 thought to consider is the economic engine of this  
8 region has the potential to grow with the opening  
9 of the expanded Panama Canal, which will occur in  
10 2014 or 2015. Ships that earlier were only going  
11 to the East, excuse me, the West Coast, will be  
12 able to come to the East Coast and serve us  
13 directly.

14 There's two types of dredging.  
15 There's the excavation of the material. And,  
16 there's the disposal of material with a link in  
17 the middle of transport. For a very long time,  
18 this region, unlike many other regions in the  
19 country, didn't have to worry about disposal of  
20 dredge material because it all went to the ocean.  
21 And, under the Federal rules, if you have an ocean  
22 site, or if you have any other option besides the  
23 ocean site, you have to use it. So, when things  
24 started to change here, about 12 years ago, the  
25 region galvanized, got together, led by the Corps

1  
2 of Engineers. I was working for the Port  
3 Authority at that time responsible for their  
4 waterways development, and came up with a program  
5 called the Dredge Material Management Plan for  
6 disposal of this.

7           Most of the material we have here,  
8 about 50%, is clean and can be used beneficially  
9 either by covering the Mud Dump or in reef.  
10 Contaminated material has to be treated in some  
11 fashion, as Miss McGuckinton mentioned. Either  
12 initially, it was put in pits and then, after  
13 that, in this region, we developed a very  
14 expensive processing method that turned it into a  
15 resource. The first utilization of that was for a  
16 parking lot at Jersey Gardens over in Elizabeth.  
17 The reason that the contractor wanted to use it  
18 was because it doesn't have differential settling.  
19 It's all nice graded fill.

20           We have maintenance issues in this  
21 Harbor and we have new construction. In order to  
22 be part of the 21st century global port complexes,  
23 we have to be at about 15.2 meters, or 50 feet.  
24 That project's underway. The City is a  
25 participant. And, there's about 20 million cubic

1

2

yards left to be done on that project out of a total of 50 million. So, it's very well on the way.

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

The other things, there's an ongoing maintenance problem. The area is challenged by three principal superfund sites. One, PCBs in the Upper Hudson; two, dioxins on the Passaic River and three, mercury on the Hackensack. Those three chemicals come in and have been part of the reason the material's not ocean acceptable any longer. Those legacy sediments will be us for another several decades.

The principal places that we've been focusing on for dredging and will have to continue are the connecting channels to where those berths are and the container terminals. And, this port really is a combination of container activities, auto activities and break bulk. Most of the break bulk is salt coming in; going out, it is scrap metal and waste paper.

The dredging challenge essentially comes down to making sure that the federal government's able to maintain their schedule, which is-- had the Corps receiving on the order of

1  
2 100 million a year to keep this project moving and  
3 completing it before the Panama Canal opens  
4 because the Panama Canal will be able to take  
5 these larger vessels, carrying about 8,000 to  
6 9,000 20-foot equivalents. And, without 50 feet,  
7 we will see that cargo go to Norfolk or South.  
8 And, it's going to come here then by truck, which  
9 is not a real good way to move cargo these days,  
10 particularly on I-95.

11 The other projects that we have in  
12 this area are influenced by regulatory  
13 requirements of both New Jersey and New York.  
14 And, as Katie mentioned already, DEC classifies  
15 dredge material as waste, therefore, it falls  
16 under federal regulations for RCRA and that  
17 changes, not only the public perception, but the  
18 rules for placement. New Jersey doesn't handle it  
19 that way. So, there's been more flexibility  
20 there. Pennsylvania the same thing. In general,  
21 the federal government, I believe, does not treat  
22 it under RCRA, nor do most other states.

23 Finally, the expanding financial  
24 concerns, the amounts of money were already  
25 mentioned in dredging, and it's only going to go

1  
2 up if fuel goes back up. And, in this day and  
3 age, we have to be cognizant that all project  
4 costs limit the ability to actually do a project.  
5 And, the question's whether or not it's the best  
6 place for the city, the state, the federal  
7 government to put their money.

8           The challenges are we don't have  
9 any disposal sites here. The ocean site was  
10 closed in one year. They had one last shot in '97  
11 to put what remaining material that could go there  
12 that could be capped. Thereafter, we had a pit in  
13 Newark Bay for a short period of time. It's still  
14 there, but it can't be used. It's not permitted.  
15 So, everything else has been going on land. There  
16 are some long term opportunities. But, there're  
17 also large cost associated with that, such as  
18 taking the material to Pennsylvania and using it  
19 for acid mine drainage pit cover; reclaiming  
20 mines, in other words.

21           There is a 1.2 million yard  
22 requirement every year for disposal on land  
23 because it's not acceptable for ocean or inland  
24 waterway disposal. These are issues that we'll  
25 have to grapple with because, to me, dredging is,

1  
2 as you said, an unseen infrastructure requirement,  
3 if, indeed, you want to be a port. If you want to  
4 be a port this day and age and not a feeder port  
5 or a barge port, which means it's rehandled  
6 somewhere else and brought to you, which adds to  
7 the cost of delivery. Then, you have to maintain  
8 the channels, just like you have to maintain the  
9 roads and driveways and parking lots.

10 It's the choice that the region  
11 faces, not recognizing, I don't think, that the  
12 rules of the international trade are changing and  
13 changing rapidly. Thank you.

14 CHAIRPERSON NELSON: Thank you.

15 [Pause] appreciate it. You said the whole panel.

16 MALE VOICE: Yeah, Mr. Shea's next.

17 CHAIRPERSON NELSON: Okay. Sorry,  
18 I was requested to have Mr. Shea go next. That  
19 okay?

20 TOM SHEA: Yeah, we're going to--

21 CHAIRPERSON NELSON: Thank you.  
22 Army Corps of Engineers who were so pivotal to our  
23 economic situation right now.

24 TOM SHEA: Briefly change out - - -

25 -

1

CHAIRPERSON NELSON: Um, hm.

2

TOM SHEA: -- slide mount.

3

CHAIRPERSON NELSON: No problem.

4

Please, let me introduce Council Member Melissa Mark-Viverito, who joined us. Remiss I didn't do that earlier.

5

6

7

MALE VOICE: Gale's here, too.

8

CHAIRPERSON NELSON: Oh, and

9

Council Member Gale Brewer. Nice to see you, Gale.

10

11

COUNCIL MEMBER BREWER: - -

12

CHAIRPERSON NELSON: You're

13

welcome.

14

TOM SHEA: Okay. Good morning.

15

I'm Tom Shea. I'm a project manager at the United States Army Corps of Engineers. We're the world's oldest and largest engineering construction firm. Now, I'm blind 'cause I-- I'm going to be doing a Dredging 101. That's what I was asked to do. I will not go into as many details of our projects that we have going on and focus more on mechanics, why we do things and some of the issues involved. Again, some of this-- got some stuff on here doesn't make me look good, here. I don't know

16

17

18

19

20

21

22

23

24

25

1  
2 what it is. Oh, no, don't. Hopefully, this'll  
3 work.

4           Again, New York Harbor was  
5 originally, you know, when Henry Hudson came in,  
6 about 17 feet and we were first and naturally  
7 deep. So, anything, all big ships come in because  
8 we've dredged. And, we've dredged a lot. The  
9 Corps of Engineers maintains over 240 miles of  
10 channels in New York City. Those range from 45  
11 feet deep along the Kill Van Kull. And, in some  
12 areas, they're 4, 6, 10 feet. Some of the smaller  
13 ones that we get for recreation or some barge  
14 movement in some of the small rivers, like the  
15 Bronx River, say. And, we're deepening  
16 approximately 45 miles right now.

17           These numbers, you've all seen,  
18 we're the largest port on the East Coast. Lots of  
19 money, 35% of the U.S. population served. That  
20 goes up to almost 60 or 70% that's almost a day or  
21 day and a half travel time away from us. A huge  
22 amount of goods come in because there's a huge  
23 population and we, as Americans, like to buy  
24 stuff. And, that stuff, a lot of it all comes in  
25 and that's generating the big stuff.

1  
2 Why do we dredge? Provide access  
3 to land facilities; provide economic loading of  
4 the ships; maintain anchorages or channels for  
5 recreation; remove contaminate materials and  
6 provide source material for beaches. We have a  
7 program where when we're dredging sand, we can  
8 place that on a beach at a really good deal for  
9 the local sponsor.

10 Graphically, here's how things have  
11 gotten started. When containerization started in  
12 the 1960s, there were maybe a thousand, less than  
13 a thousand TEUs or 20-foot equivalent units. So,  
14 that's essentially one container each. And, they  
15 range from 20 to 53 feet long. They didn't  
16 require a lot. They were converted oil ships.  
17 And then, the shipping lines start building  
18 specific ships to handle these. And, currently,  
19 we're in the-- around 6,000 TEU, getting up to  
20 8,000 and there's even rumors or there were some  
21 rumors going on, maybe a 15,000 TEU ship; huge  
22 things. And, as they get bigger, they actually,  
23 you know, they get longer, wider and they get  
24 deeper. And, as they get deeper, we do the  
25 economics to see if we should deepen the channels.

1  
2 All of our channels must be economically  
3 justified, which I'll touch upon in a second.

4 I classify dredging for three  
5 reasons; one, new work. And, that's to deepen the  
6 existing channel so that we can bring in the newer  
7 vessels. An example of that is the New York  
8 Harbor, deepening that I'm the project manager  
9 for. And then, we also maintain channels.

10 Channels, because of the flow of sediment down,  
11 they'll shoal up and then, the draft decreases.

12 For federal channels, Congress authorizes a  
13 specific depth. And, we have a program where we  
14 can go in and remove channels. They're typically  
15 on a certain basis. And then, an example of that  
16 would be like the Intrepid earth required  
17 maintenance dredging. There's Jamaica Bay, even  
18 the New York Harbor. And then, finally,

19 environmental. This is outside of dredging for  
20 economic purposes. This is to remove material,  
21 either because of superfund concerns or non-  
22 superfund, environmental restoration or superfund.

23 New work, when the Corps does it,  
24 we do a feasibility study for the New York Harbor.  
25 That actually only took two years. And, hence the

1  
2 loss of all my hair, or most of it. It was fast-  
3 paced. And, fortunately, we were able to get the  
4 funding to do that. The depths are based on an  
5 economic analysis. And, the bottom line is the  
6 benefits have to outweigh the costs for the Corps  
7 to recommend the project, unless certain things  
8 happen. And, I wasn't going to get into those  
9 type complications at this. And, we do the  
10 calculations based on transportation cost savings.

11 When we know, like a 6,000 TEU ship  
12 can come in, it comes in lightly loaded. It may  
13 have 4,000 TEUs. The cost to operate that ship is  
14 going to be the same whether it's fully loaded or  
15 lightly loaded. So, if we can bring that in  
16 loaded, fully loaded, the unit cost per container  
17 decreases and that's essentially your benefits.

18 Maintenance dredging, we have a  
19 certain depth. It shoals. Every so often we'll  
20 do surveys. We do-- I'm lacking the name of it--  
21 controlling depth reports that we publish on the  
22 internet that tell you what the controlling depth  
23 of the channel is. And then, if it goes below the  
24 authorized depth, we have programs. We get money  
25 from Congress to go and dredge it. That usually

1  
2 happens maybe every two years. Some projects  
3 every ten or 30. Some channels, like the  
4 Anchorage Channel has enough flow and energy that  
5 it doesn't require any maintenance.

6 And then, environmental, this is  
7 for restoration or CERCLA. It's based on human  
8 environmental risk assessments, not really tied in  
9 with economics. When the Corps recommends an  
10 environmental dredging that's not CERCLA, we look  
11 at the cost of the first unit cost to dredge, say,  
12 10 feet, as a base, automatically justified. And  
13 then, we try to go down and look at what the  
14 optimal amount is or when that last increment just  
15 costs way too much to justify it.

16 How we dredge really depends on  
17 what we're dredging. Here's some of the types of  
18 stuff we have; sand, soft mud, Glacial Till, clay,  
19 bedrock. And, we go down from the stuff that's  
20 really easy to the stuff that's really hard.

21 I have two graphics that show what  
22 we're doing, if you want to use this one. We have  
23 essentially two types of dredges. We have the  
24 clamshell here. And, the dredge basically stays  
25 in one place and drops its bucket. And, the

1

2 bucket just scoops up material and then lifts it  
3 up. And, the bucket looks like that. And then,  
4 we have an excavator. This is basically a back  
5 hoe. But, it's a really, really big back hoe.  
6 Both of these have been on Marne and Marvels and  
7 all the History Channel things. There's a couple  
8 of shows on that have them. And then, when we get  
9 into bedrock, we throw in a third barge, which is  
10 our drill barge, where we're required to drill  
11 holes into the bedrock on a certain pattern. And  
12 then, we put in charges and then, that fractures  
13 the rock.

14 And then, we'll go back with the  
15 excavator and clean that up. All the mud is then  
16 put on a scow, or the dredge material's put on a  
17 scow. Depending upon what material that is, the  
18 scow may be a bottom dumping scow like this,  
19 where, like, for sand, it goes out to the HARS;  
20 goes out, the bucket opens up, the material drops  
21 from the bottom and then it comes back in and re-  
22 cycles. The other type is more like a bowl. And,  
23 the material to remove it, they typically have a  
24 smaller clamshell that removes the material.

25

Here's another example of one.

1  
2 This would demonstrate how the rock would have  
3 been broken up. You have a excavator, just scoops  
4 it all up, puts it in the barge. A little bit  
5 further behind it, the dredging barge would be  
6 removing it. And then, in most areas, we have  
7 material, even though we're going to like a  
8 project depth, which would be this dotted line,  
9 there's softer material usually on top of it,  
10 perhaps clay, Glacial Till, sand, whatever. So,  
11 we have to remove that so that the progress is  
12 remove it with the clamshell. Whatever we can't  
13 remove with that, they may try to remove with the  
14 excavator. And, if they can't, go back, drill it  
15 and then, remove it. Essential thing.

16 Now, we're getting in the fun part,  
17 where we have some pictures. This is an example  
18 of a hopper dredge. It's a huge boat with pipes  
19 that go down to the bottom. This is what's on the  
20 bottom. Essentially, it's a vacuum machine.  
21 Using hydraulic pumps, it just pumps water, sucks  
22 the sand with it. It then goes into hoppers  
23 that's on the dredge. Once the hoppers are  
24 filled, usually to an economic fill, which means  
25 it's pumping water out 'cause there's a large

1  
2 amount of water that gets pumped in also. That's  
3 allowed to flow overboard so you're getting just  
4 the sand in the hopper. It takes off. It'll go  
5 to the HARS or it'll go to someplace when we're  
6 doing, like, environmental restoration building an  
7 island. It'll go there to pump the material out  
8 to stockpile it or move it on to the beach. And  
9 then, it comes back and it just continues to do  
10 that.

11 This is the New York. This is an  
12 example of the excavator. To give you a size,  
13 that's the size of the bucket. It's huge. This  
14 is one of our former district engineers standing  
15 inside of it. Huge teeth. And, you can see why  
16 that thing's great for digging up rock. The  
17 problem we have with this is it does generate a  
18 lot of maintenance requirements, a lot of  
19 hydraulics. But, it just, you know, might say  
20 gobble it up and it just really nice. When you're  
21 out there watching, this does not look so big  
22 until you actually get to go on it.

23 These are the clamshells. This is  
24 just a normal-- actually it's what we term a  
25 "environmental bucket." Same with this. They

1

2 function the same way. They're both designed to  
3 scoop it out. A normal clamshell mud or water can  
4 flow out. It's kind of messy. The environmental  
5 bucket is designed to help contain it, reduce the  
6 amount of water. And so, you reduce suspension in  
7 the water. It's a bit more, when you're dealing  
8 with contaminated materials, that's the bucket  
9 we're required to use. And, we have one that's  
10 about 26 cubic yards. And, it's great for  
11 production.

12

13 There's a drill boat, three of  
14 them. You can see, basically, just like any drill  
15 that you might see drilling for water or drilling  
16 onshore. They drill. When they're getting ready  
17 to blast, there's a whole line of yellow charges  
18 that come out. We will only do two blasts during  
19 the day; one typically an hour after sunrise and  
20 then, no later than an hour before sunset. So,  
21 any of our gurat [phonetic] blasting only occurs  
22 during daylight hours, Monday through Friday.  
23 And, we don't allow our contractors to blast on  
Sundays or federal holidays.

24

CHAIRPERSON NELSON: That's good.

25

TOM SHEA: Excuse me?

1  
2 CHAIRPERSON NELSON: You don't want  
3 to scare the hell of everybody.

4 TOM SHEA: Well, we have a lot of  
5 issues, especially in the Kill Van Kull where we  
6 do most of that. A lot of residents, you know,  
7 they feel the vibrations. They feel we're going  
8 to tear their house down. And, that's not the  
9 case. And, we have a large program to go and  
10 every time we're in the area, we will survey the  
11 house, take pictures, make drawings, take video of  
12 it. And, if they have a complaint, they file a  
13 claim. We'll investigate it. And, you know, if  
14 it is, you know, we bring in the experts to figure  
15 out if this was caused by vibration. A lot of the  
16 vibrations are garbage trucks or buses. I mean,  
17 that's generating much more damage to any  
18 structure than us.

19 CHAIRPERSON NELSON: This is a - -  
20 you distribute, like, information to the locals.

21 TOM SHEA: Right. We distribute  
22 pamphlets to every house, every property in the  
23 area, well, within a 15 foot radius of where we're  
24 going to dredge or band, more appropriate. And  
25 then, we'll advertise in the newspaper for public

1

2 meeting that's held at least two weeks prior to  
3 the start of blasting. And then, our schedules  
4 are posted to Staten Island Borough President  
5 office and then, our website.

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

What do we do with the dredged material? This has been discussed in detail. But, again, it depends on the material. Sand, we can send it to the HARS or we can use it for island creation or put it on a beach. Unfortunately, a lot of material we're dredging now is so fine that, if it was to go on a beach, it would wash off over the first year. So, it's not beneficial to do that.

Soft mud requires testing. And then, it can either go upland if it doesn't meet the HARS suitability. Or, it goes out to the HARS. Glacial Till, we tend to send that out to the HARS. It makes good capping material. Clay, we send out there, too. And then, bedrock, the two states usually fight over this material so that they can create artificial reefs.

Here's what one of the landfills, this is in Bayonne. This is the former Marine Ocean Terminal Bayonne. This is the Port Jersey.

1

2 Manhattan and Brooklyn are over here. This was a  
3 landfill. It required closing. And so, we were  
4 bringing the dredge material to a processing site  
5 that was right onsite. A scow would come in. It  
6 would be off-loaded, processed and then,  
7 distributed around the landfill based on the  
8 engineering and ultimately the designer's  
9 requirements. And, this project is finished and  
10 it's a rather nice looking golf course. It looks  
11 rather challenging, too.

12

13 And then, Tom mentioned mine  
14 closure. This is one picture of one. This is  
15 before and an after shot. Again, mines, basically  
16 open rock and then, they get acid rain or they  
17 generate a bad runoff, similar requirements to  
18 landfill closure, where you can cap the material,  
19 cap whatever it is and then, landscape it so that  
it's nice looking.

20

21 Sediment stabilization is the heart  
22 of reusing the dredge material. Again, it's  
23 brought in by scows. Each process is slightly  
24 different. Some of them are even patented now.  
25 When it's brought to the cycling material, it's  
typically dewatered or pumped out. And then,

1  
2 dewatered, mixed with fly ash or cement or some  
3 stabilizing product. And then, the end result is  
4 similar right here. It basically looks like dirt  
5 that, you know, if you went to, you know, you  
6 called a company for landfill dirt, it would be  
7 very similar. And, it's a great resource.

8           Island restoration, this is Elder's  
9 Island, that's out in Jamaica Bay. We have two  
10 authorities that do this. One was the Dredging  
11 Authority and then, an environmental restoration  
12 authority. This is where we brought sand from the  
13 Anchorage One and Ambrose Channels to Elder's. It  
14 was basically the island almost went away. And  
15 now, we've rebuilt it. I don't have the specifics  
16 on the number of acres we've rebuilt. We planted  
17 grass, landscaped it and now, we're monitoring it  
18 with the Anchorage 1B Channel. And, we're going  
19 out with a second contract to continue building  
20 the island. That's been postponed due to bidding  
21 concerns. But, this is a great opportunity to  
22 restore Jamaica Bay and the natural resources and  
23 great habitat that we have out there while doing  
24 something with the dredge material.

25           Funding, for me, in the new work,

1  
2 the projects are funded partially by the federal  
3 government and then, the local sponsor. That  
4 share depends on the depth it is. It goes 25,  
5 actually 15, 25 or 50% share. And, most of the  
6 work in New York Harbor is cost shared with the  
7 Port Authority. And then, they have supporting  
8 agreements with the State of New York or the State  
9 of New Jersey for some specific channels in the  
10 deepening project.

11 Federal maintenance, the federal  
12 projects are deepen at 100% federally funded,  
13 unless the project is post-1986. So, for  
14 instance, the 50-foot project-- actually, it's  
15 when depths go beyond 45 feet, then they get cost  
16 shared for the incremental costs of maintaining.  
17 And, beyond 50 feet, there's only one project that  
18 we do that. And then, the 50-foot we'll have  
19 that.

20 And then, there's the local  
21 maintenance. When you have a marina or the  
22 berthing areas to a huge channel, that's all local  
23 owner responsibility. And, that's, again, where  
24 you get, as very well described by Katie, the  
25 problems associated with the cost of dredging,

1  
2 cost of testing the material and it gets--  
3 however, we have done in the past, for instance,  
4 Merrimac, I know for one, we had a maintenance,  
5 federal channel maintenance project. And then,  
6 the Anchorage channel was non-federal. We were  
7 able to combine the total area, dredge it under  
8 one contract and then, we basically divvied it up  
9 on who pays for what. That helps the local  
10 because it reduces a lot of the-- you increase  
11 your unit quantities, which drives down the unit  
12 cost of dredging. And, it also drives down the--  
13 or, you save money on the mobilization and demo,  
14 which can typically be about 10% of the total  
15 cost.

16 Various issues, again, dredge  
17 material testing. It's expensive. It gets  
18 expensive 'cause someone ends up counting the  
19 number of shrimp that have died after a certain  
20 number of days. The shrimp are not the type you  
21 eat. They're really small. You got get them  
22 under a microscope and do all that. And, that  
23 takes time and that drives up the costs.

24 Upland placement, again, they can  
25 range from 50 to \$100. Back in, it was '97, Tom,

1  
2 we sent material out to Utah at about \$115 a cubic  
3 yard. That barge got sent on a rail car. It used  
4 just about every transportation means, except for  
5 a bicycle to do it. At that point, we said no,  
6 there's got to be a better way. And, that's when  
7 we all started working together to do that.

8                   And then, there's environmental  
9 issues. There's loss of habitat at times.  
10 There's an impact to specific species of concern,  
11 for instance, winter flounder is a species we look  
12 after as an indicator of the overall health of  
13 other species. Air pollution, the New York Harbor  
14 is funding because we were not in compliance with  
15 the Clean Air Act for the construction of the  
16 project. We're going to spent up to \$28 million  
17 in repowering all the Staten Island ferries so  
18 that they reduce their emissions, especially Knox  
19 [phonetic], so that they're all going to be  
20 cleaner. We've also had a program through the  
21 Port Authority that's going to get cost-shared to  
22 repower a lot of the tug boats that spend about  
23 90% of their time in New York Harbor.

24                   Noise is an issue for the residents  
25 out in Staten Island, in Bayonne. Even though we

1

2

tend to be in compliance with the City Noise

3

Regulations, it's this constant drone. It's

4

constantly there. It's something that's new and

5

it's an issue.

6

And then, finally, we have

7

suspension of solids. This is more of a concern

8

when you're dealing with contaminated materials.

9

And, that's where we tend to-- and we have ways to

10

manage that, reduce it and so we're not causing

11

impacts.

12

And, I think that's it. There's my

13

contact information. Again, Corps of Engineers is

14

a extremely large organization. We have experts

15

in just about anything so that if I can't answer

16

it, I've got about 30,000 people who can.

17

CHAIRPERSON NELSON: Well, that 101

18

was really, I think fascinating. I think many

19

people in this audience probably know a lot about

20

that already. But, it was so interesting. I have

21

to tell you. It really was. I think Council

22

Member Brewer has a question.

23

COUNCIL MEMBER BREWER: You want to

24

lead questions?

25

CHAIRPERSON NELSON: No, we'll go

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

right to you. It's okay.

COUNCIL MEMBER BREWER: Thank you very much. The couple questions I have, I know Jerry Nadler [phonetic] may not be your favorite. I just e-mailed him. What should I ask? But, anyway. When you have the challenge of trying to be a very competitive port, what kind of-- obviously, that would be post-Panama Canal, that you have to be ready for-- what's your goal in all of this? In other words, what would Jerry Nadler say that you had to do between now and the opening of the Panama Canal? What's kind of-- where do we need to be at that point in terms of dredging?

TOM SHEA: Well, from the Corps' perspective, we have the 50-foot project that's being deepened. We're on a schedule. As long as Congress funds us, we're going to meet that schedule. The goal is to have a channel to 50 feet that gets into the South Elizabeth Channel. And, that's the Port Authority's goal.

COUNCIL MEMBER BREWER: And, that will make us competitive with other ports, strongly, 'cause that's what I think what our goal is is that New Yorkers and New Jersey?

1

TOM SHEA: Yes.

2

COUNCIL MEMBER BREWER: Okay.

3

TOM SHEA: Although from the Corps' perspective, we don't look at being competitive.

4

5

COUNCIL MEMBER BREWER: I know, but we do.

6

7

TOM SHEA: I know. And so, we're helping you do that.

8

9

COUNCIL MEMBER BREWER: Thank you.

10

VENETIA LANNON: Yeah, I think, and

11

we, at EDC, we engage in these conversations with

12

the Army Corps and the Port Authority and with

13

Congressman Nadler's office on a frequent basis.

14

It's foremost in our minds that our Port, which

15

provides so much, as many of the panelists said,

16

so much economic--

17

COUNCIL MEMBER BREWER: Yeah.

18

VENETIA LANNON: -- activity, jobs,

19

tax benefits to this region that it remain

20

competitive. Our main concern, when the Panama

21

Canal widens, one of our big competitors is

22

Norfolk, Virginia. And, they have naturally deep

23

water at their port. They don't have a lot of

24

these dredging-- they have some dredging concerns,

25

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

but not on the scale that we do.

And, I think one of the other really important things that isn't a topic of this conversation is just to have enough land. I mean, you can't expand Port Newark or Port Elizabeth, you know. We're looking right now to expand the New York Container Terminal at Hallan Hook. But, there's a delicate balance between, you know, when you're on the water, there are going to be wetlands. And, it's a conversation with DEC.

And, I'm sure we'll be coming back to have it with you, sort of the need to get more land and to also what's called densify throughput, meaning that you can move lots of containers on a small amount of land. So, you know, these kinds of things, densification, better efficiency, better labor practices, you know, more competitive labor force is something that comes up. These are all things as well as dredging that we can do to keep our Port competitive.

And then, you know, on top of that, we have to be competitive environmentally. The Port of LA and Long Beach are taking many initiatives to really put an additional charge on

1  
2 some of these goods that are coming through that  
3 benefit these big box stores, but have lots of  
4 local impact, especially on the environmental  
5 justice front with people suffering from asthma  
6 around the Port, especially in New Jersey. So,  
7 you have to also be competitive on the  
8 environmental front. But, as Congressman Nadler  
9 said, that's something perhaps the federal  
10 government should be addressing so that we're not  
11 competing with each other on that front. And,  
12 that's just something that everybody base-line has  
13 to take care of.

14 COUNCIL MEMBER BREWER: Thank you  
15 for that comprehensive answer. The other question  
16 I have is I know that you talked about the 50%  
17 that is clean; that some of it is contaminated. I  
18 guess my question is are there ways that are new  
19 due to new technology that can address some of  
20 this fill? In other words, obviously, you talked  
21 about what you can do with the brownfields,  
22 etcetera and the coal mines and so on. But, is  
23 that taking care of the problem? In other words,  
24 I'm trying to say is there something new that can  
25 be done 'cause you can't dump where you have in

1

2 the past in many cases? So, between the--

3

4

5

KATHRYN McGUCKIN: Not that there aren't new technologies, there are new technologies.

6

COUNCIL MEMBER BREWER: Okay.

7

8

KATHRYN McGUCKIN: However, they're very expensive--

9

COUNCIL MEMBER BREWER: Okay.

10

11

12

13

14

KATHRYN McGUCKIN: -- as both Toms could attest to. There has been a lot of research on how to actually decontaminate these materials and make them garden soil that you would purchase at Home Depot.

15

COUNCIL MEMBER BREWER: Yeah.

16

17

18

19

20

21

22

KATHRYN McGUCKIN: And, that can be done. But, it's very expensive. So, how do you do that and still remain economically viable? The sediments that are the easiest to beneficial reuse, as I was mentioning, are those that are contaminated, because it's, I mean lead occurs everywhere.

23

24

COUNCIL MEMBER BREWER: It's going to be contaminated.

25

KATHRYN McGUCKIN: It's going to be

1  
2 in your backyard. It's going to be everywhere.  
3 It's something that occurs in nature. But,  
4 they're not anywhere near hazardous. They're not  
5 any type of hazardous type of material. Okay,  
6 great. We can beneficial reuse those. We mix  
7 them with cement because they're very fine silt  
8 and they have no structural stability. So, we mix  
9 them with cement, which bulks them up. It makes  
10 them look like regular soil, just as Tom  
11 mentioned.

12 But, there's an ancillary benefit  
13 to that. When you add the cement, not only does  
14 it bulk it up, but it locks in those contaminants  
15 so that when we run an acid leach test that's  
16 required by the State of New York, the water that  
17 comes out the other end is clean. That lead that  
18 was in there, that mercury that was in there,  
19 those things that were in there, they're all  
20 locked up in that little cement matrix. And, the  
21 water that comes out is clean. So, it's not that  
22 they're gone. They're still there.

23 COUNCIL MEMBER BREWER: Um, hm.

24 KATHRYN MCGUCKIN: But, they're  
25 locked in that matrix. But, that makes a good use

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

for putting below a parking lot, like the Jersey Garden Malls, using it as road embankment fill, using it to close landfills, using it to close brownfields. Those are perfect uses for those type of material because there's not going to be a human exposure pathway there. And, there's not going to be a ground water exposure pathway, 'cause we locked up all those contaminants with that cement. So, it's perfectly reusable.

It's that stuff that's not hazardous material, but not really clean enough to do that, that's going to present the challenges for us. Those are the types of material that we have used in closing landfills and stuff. But, the landfill opportunities are going away.

COUNCIL MEMBER BREWER: Correct.

KATHRYN MCGUCKIN: You know, they're all closed or really close to being closed, you know. The below the liner material that is the only stuff that can be accepted, the dirtier stuff. Those opportunities are going away. So, our challenge for the future is where is the next opportunity to use material that is not hazardous, but not really clean enough to use

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

in most of our redevelopment projects and, to do that and still be economically viable. There are things out there, but they're very expensive.

COUNCIL MEMBER BREWER: I got it. Now, is there dredging going on in European cities? And, are they doing anything with that material that you just discussed?

TOM WAKEMAN: This has been going on worldwide, probably 30 years.

COUNCIL MEMBER BREWER: Right.

TOM WAKEMAN: The last 15--

COUNCIL MEMBER BREWER: I've been on dredges, actually.

TOM WAKEMAN: -- we started looking at ways to decontaminate and beneficially use sediments that were contaminated. The construction of making bricks, Homburg--

COUNCIL MEMBER BREWER: Right, yeah.

TOM WAKEMAN: -- they still have the pile of bricks. Nobody wants them.

COUNCIL MEMBER BREWER: Got it.

TOM WAKEMAN: If it's contaminated, I don't want that in my house.

1

2

COUNCIL MEMBER BREWER: It's like the cell phone towers. I got it.

3

4

TOM WAKEMAN: Well, the perception stops people. In terms of looking at aggregate, engineered fill, variety of other potential beneficial uses including the creation of tiles by vitrification of this material was done by Brookhaven National Laboratories--

5

6

7

8

9

10

COUNCIL MEMBER BREWER: Um, hm.

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

TOM WAKEMAN: -- with the EPA and the Corps of Engineers, the Port Authority and others, the two states, spending about 25 million and the bottom line was we put most of our effort into turning this material into a structural fill, which is probably the best use for it. It's where we have the greatest demand. It keeps the price down. And, the public is protected. There are loss of those opportunities as we quickly use up the available space. The Governors made a decision, both of them, in '96, when we sent the material from Hallan Hook to East Carbon, Utah by a combination of the scow and railroad at \$118 a yard, that we're not going to send our money to Utah anymore.

1

COUNCIL MEMBER BREWER: Um, hm.

2

3

TOM WAKEMAN: We're going to keep

4

it here and we're going to make it beneficial uses

5

for us here. The problem that we're going to face

6

is two things; your first question, how do we stay

7

competitive. To me, not an issue. It's how do we

8

get the goods. Estimates are that we'll go double

9

the number of goods that we need in this region

10

between 2007 and 2027.

11

COUNCIL MEMBER BREWER: Wow.

12

TOM WAKEMAN: Now, how to get

13

double that amount of cargo in here to meet the

14

region's needs, demands, because the population

15

increased, because of affluence--

16

COUNCIL MEMBER BREWER: Um, hm.

17

TOM WAKEMAN: -- because of all the

18

other good things that are happening. You do that

19

by having a logistics chain that is served end to

20

end to make sure you can bring the goods in and

21

put it on the shelf on the far end of Long Island.

22

How do you do that? By having the transportation

23

connections to do that.

24

COUNCIL MEMBER BREWER: Absolutely.

25

TOM WAKEMAN: The most economical,

1  
2 energy efficient and least carbon emitting is to  
3 bring it in here by sea--

4 COUNCIL MEMBER BREWER: Yeah.

5 TOM WAKEMAN: -- and then, put it  
6 on land with inner mobile connections. I think  
7 Mr. Nadler would be the first to say I want to  
8 make sure that the residents of New York are able  
9 to get the goods they want in the most efficient  
10 fashion possible.

11 In talking with Mr. Godheim about  
12 this, he wants to continue discussions and look at  
13 what are the options that we can get into the T  
14 bill, to further that function, that objective of  
15 not only having a commercially viable Port, but  
16 making sure we meet the demands.

17 COUNCIL MEMBER BREWER: Thank you  
18 very much. I won't take more time. But, for EDC,  
19 my 79th Street Boat Basin, is anybody thinking  
20 about my 79th Street Boat Basin? What do you--you  
21 say yes. What does that mean, translated? It's  
22 high dry.

23 VENETIA LANNON: Right.

24 COUNCIL MEMBER BREWER: High and  
25 dry.

1  
2 VENETIA LANNON: We were just using  
3 it as a case study the other day for when dredging  
4 becomes so cost prohibitive that really boats are  
5 just perched on, when at low tide, just perched  
6 right on the ground.

7 COUNCIL MEMBER BREWER: So, how do  
8 we get it dredged?

9 VENETIA LANNON: Well, as Katie  
10 started to mention, EDC has just-- we've gotten,  
11 just started this program called the Dredge  
12 Material Management Program. And, it's sort of a  
13 mini business within EDC, if you will. So, for  
14 some of these cleaner materials that are coming  
15 out of the federal projects, we will be sort of  
16 getting the beneficial use determination from EDC  
17 and managing the placement. So, rather than  
18 paying to dump, the dredger pays us to place. We  
19 will, therefore, generate a source of revenue to  
20 be able to either-- we didn't get too much into  
21 our testimony, but we--

22 KATHRYN MCGUCKIN: But, she has--

23 VENETIA LANNON: Yeah.

24 KATHRYN MCGUCKIN: -- our handout.

25 VENETIA LANNON: Yeah, either it's

1

2

a revolving loan fund or it's a grant--

3

COUNCIL MEMBER BREWER: Okay.

4

VENETIA LANNON: -- that we will go

5

to be able to aid places like low basins, like

6

small maritime businesses on the Gowanus Canal.

7

COUNCIL MEMBER BREWER: Okay. So,

8

79th Street could be the first test case? Thank

9

you very much.

10

KATHRYN MCGUCKIN: We did do a test

11

and it worked out really well. And, the idea is

12

that we want to be able to beneficial reuse and we

13

want that-- we want to be able to put aside money

14

for small and intermediate-sized businesses--

15

COUNCIL MEMBER BREWER: Right.

16

KATHRYN MCGUCKIN: -- to help them

17

with Dredge Material Management.

18

COUNCIL MEMBER BREWER: Okay.

19

KATHRYN MCGUCKIN: That's the real

20

benefit to having EDC do this. We're not-for-

21

profit. We're not doing this to make money. So,

22

the idea is we're setting aside money specifically

23

to help these smaller businesses.

24

COUNCIL MEMBER BREWER: Perfect.

25

Unfortunately, this business is the Parks

1

2

Department. But, let's work on it.

3

4

KATHRYN McGUCKIN: We're working with Parks, too.

5

6

7

COUNCIL MEMBER BREWER: Good. All right. Thank you very much, Mr. Chair. I could go on and on, but thank you.

8

9

CHAIRPERSON NELSON: Thank you [pause]

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

COUNCIL MEMBER MARK-VIVERITO:  
Thank you, Mr. Chair. And, somehow it feels like, you know, we're cramming for a test, like so much information that's being given. And, it's, at least for me, it's a relatively new topic. So, it's fascinating. But, just quick questions, 'cause you kept bringing up the issue of the classification of the material, that in New York State it's classified as solid waste. So, and in other cities, I'm sorry, in other states, it's not, correct? Now, is it to infer that in maybe changing the classification of the material that it would be more cost effective? Or, it would be, you know, in terms of the--

KATHRYN McGUCKIN: [Crosstalk] cost effective because you have more opportunities for

1  
2 beneficial reuse. And, the best example I can  
3 give is the State of New Jersey.

4 COUNCIL MEMBER MARK-VIVERITO:

5 Right.

6 KATHRYN MCGUCKIN: They, too, had  
7 this classified as a solid waste. But, in 2002,  
8 they declassified it and it is a regulated  
9 material, just like any other material that would  
10 be fill material at a redevelopment site. And,  
11 that's all we're looking for.

12 COUNCIL MEMBER MARK-VIVERITO:

13 Right.

14 KATHRYN MCGUCKIN: We're not  
15 looking to have no regulation.

16 COUNCIL MEMBER MARK-VIVERITO:

17 Right.

18 KATHRYN MCGUCKIN: It's the stigma  
19 attached to, this is a solid waste.

20 COUNCIL MEMBER MARK-VIVERITO:

21 Correct.

22 KATHRYN MCGUCKIN: Even though I  
23 could demonstrate to everybody in a room that this  
24 material is just as clean, if not cleaner, than  
25 this stuff that's coming from over here. 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  
25

stuff doesn't have the title solid waste, though.

COUNCIL MEMBER MARK-VIVERITO:

Where does the classification come from? Is that at a state level?

KATHRYN MCGUCKIN: Regulatory classification.

COUNCIL MEMBER MARK-VIVERITO:

Right, but, who--

VENETIA LANNON: DEC.

KATHRYN MCGUCKIN: From DEC

[crosstalk]

COUNCIL MEMBER MARK-VIVERITO: And,

it's the state, the state. Now, has there been any efforts to change the classification to get support...

KATHRYN MCGUCKIN: I do understand that years ago, and maybe Tom would remember this, I want to say it was probably about 12 years ago or so, there was an effort. And, I'm not quite sure why it fell apart. All I know is that it did. And, they do have-- they recently rewrote their Park 360 [phonetic], which are their solid waste regulations. And, in that rewrite, they did not declassify it. But, they did give it some

1

2 more automatic beneficial reuses than it has right  
3 now. But, they did not declassify it. But, those  
4 were never actually passed and put into..

5

COUNCIL MEMBER MARK-VIVERITO: Now,  
6 but in the plan or the thinking that you're taking  
7 on, you know, has there been any thought given to  
8 doing some sort of an analysis as to what the  
9 savings would be if the classification would  
10 change. What would be the, you know, what would  
11 be beneficial in changing the classification and  
12 how that would maybe get you to a better place in  
13 terms of the work that needs to get done? I don't  
14 know that level of--

15

KATHRYN McGUCKIN: [Interposing] I  
16 don't have anything written down. But--

17

COUNCIL MEMBER MARK-VIVERITO:  
18 Right.

19

KATHRYN McGUCKIN: -- - - if I sat  
20 down, Sandy Grizzlick [phonetic] can hand me a  
21 whole bunch of stuff.

22

VENETIA LANNON: It is something  
23 that we're thinking about--

24

COUNCIL MEMBER MARK-VIVERITO:  
25 Okay.

1  
2 VENETIA LANNON: -- in terms of  
3 not, you know, not our legislative agenda this  
4 year, but in, you know, I think that's a very good  
5 point to put it in the context of, you know, cost  
6 benefit. But, generally, the DEC is less  
7 sensitive to cost benefit. And, they are very  
8 conservative when it comes to reevaluating  
9 regulations because of, you know, potential  
10 precedents that they're unaware of. And,  
11 generally, especially with regards to their solid  
12 waste regulations, it's a very lengthy process to  
13 get anything changed. But, I think, you know, I  
14 do think that with a concerted, you know,  
15 evaluation that demonstrates the benefits and with  
16 the coalition of people, you know, putting, you  
17 know, making that request, I think it is something  
18 we could overcome collectively.

19 COUNCIL MEMBER MARK-VIVERITO:

20 Right. Okay. And then, the other question was I  
21 just saw one slide here and it was presented up  
22 here before. But, with the beneficial reuse of  
23 dredge material when it comes to brownfield  
24 remediation. Now, how exactly, 'cause I kind of  
25 picked up on your presentation something about

1

2 just like maybe slapping material on top of a  
3 brownfield and then, it's, you know-- I mean, how  
4 does that contribute to brownfield remediation,  
5 dredge material? I guess I want to just  
6 understand that for myself.

7

TOM SHEA: Usually in a brownfield  
8 or landfill, whatever, there's [pause] to  
9 redevelop it, they want to bring it up to a  
10 certain grade.

11

COUNCIL MEMBER MARK-VIVERITO:

12

Right.

13

TOM SHEA: So, first off, the  
14 material that's going to go from the dredge will  
15 never been dirtier, as it [crosstalk]--

16

COUNCIL MEMBER MARK-VIVERITO:

17

Right, than what the brownfield is.

18

TOM SHEA: -- more contaminated  
19 that what's going there. And, dredge material is  
20 almost always a lot cleaner than half the material  
21 you have in your backyard. We call it  
22 contaminated because it usually doesn't meet the  
23 standard for the ocean disposal, where it's at the  
24 very root of the food chain and then, when you get  
25 into the bioaccumulation and the effects there.

1  
2 So, that's why the standards are so tight. All  
3 right.

4 What happens is to get it there, if  
5 it meets all the requirements, the mechanics of  
6 it, is the scow will bring the material to some  
7 processing site. The material is mixed with some  
8 binding agent and whatever, dewatered, and then,  
9 it's treated just like dirt. All right.

10 COUNCIL MEMBER MARK-VIVERITO:

11 Right. I guess my question, and it's not  
12 questioning the hazardous aspect of the dredge  
13 material. I guess my question is if it's just  
14 grabbing that material and throwing it on top of a  
15 brownfield and not actually remediating the  
16 brownfield itself. That's my question.

17 KATHRYN MCGUCKIN: [Crosstalk]

18 Well, it depends on what your remediation plan is.  
19 Every site's going to have its own plan, either  
20 dictated by federal or state government, depending  
21 on what--

22 COUNCIL MEMBER MARK-VIVERITO:

23 Right.

24 KATHRYN MCGUCKIN: -- type of a  
25 brownfield it is. The idea is, in many cases,

1  
2 they do require, and I'm going to give an example  
3 of the Old Gatech [phonetic] site in Staten Island  
4 because that's one I'm familiar with. When DEC go  
5 to a remediation plan for that, they were required  
6 to bio-remediate the material that was  
7 contaminated with petroleum. And, they had to  
8 remove it and bio-remediate it. And, that got it  
9 clean to a certain level that was acceptable.  
10 But, it still wasn't great.

11 COUNCIL MEMBER MARK-VIVERITO:

12 Right.

13 KATHRYN MCGUCKIN: So, they want it  
14 capped.

15 COUNCIL MEMBER MARK-VIVERITO:

16 [Interposing] And, that's what the material--

17 KATHRYN MCGUCKIN: [Crosstalk]  
18 capped with cleaner material.

19 COUNCIL MEMBER MARK-VIVERITO:

20 Okay.

21 KATHRYN MCGUCKIN: Now, the whole  
22 benefit to the Dredge Material Management Program  
23 by EDC is that for a City redevelopment project,  
24 whether that site's a brownfield like a Gatech  
25 site or just a standard redevelopment site, it's

1  
2 going to cost you in today's dollars about \$60 a  
3 cubic yard/ton for every ton of material that you  
4 have to bring to that site to bring it to the FEMA  
5 flood plain or to cap, you know, your remediation  
6 site. And, that ends up being a lot of money.  
7 Fifteen thousand cubic yards, which is a very  
8 small project, \$900,000 just to get the fill to  
9 make that project happen. Instead of paying  
10 \$900,000, we were paid \$68,000 to accept dredge  
11 material as that fill. That dredge material had  
12 to meet the same chemical specifications of the  
13 material that we would have had to purchase. But,  
14 we didn't have to purchase it. So, we saved  
15 \$900,000. We made 68,000, which we had to pay--  
16 we had to pay out money to get it sampled and  
17 tested and all that. But, still, there still was  
18 \$10,300 to put into the environmental, you know,  
19 fund, to the Dredge Material Management Fund, when  
20 we were all done.

21 So, it's fill that these  
22 brownfields will have to have. But, one of the  
23 reasons brownfields go undone, unremediated, is  
24 the expense. And, using dredge material as that  
25 fill helps to cut down on that expense. And,

1  
2 that's the advantage to using it as a brownfield  
3 closer, as to using regular fill.

4 The other is the environmental  
5 benefit of not taking pristine materials from  
6 upstate New York or Canada or Virginia, wherever  
7 it's coming from, and ruining some other  
8 environment so that we can have the fill that we  
9 need for our sites here.

10 COUNCIL MEMBER MARK-VIVERITO:

11 Okay. Well, those were my two questions for now,  
12 Mr. Chair. Thanks.

13 CHAIRPERSON NELSON: Thank you,  
14 Council Member. Thank you panel. My apologies to  
15 Professor Tony DeLernia. I guess he had to go  
16 back to Kingsborough Community College. He's has  
17 that program out there as well. And, I feel  
18 terrible about that. If you're watching on  
19 Crosswalks, Tony, about one o'clock in the  
20 morning, I apologize. I'm sorry.

21 I'm going to get, for a second,  
22 also, a little parochial. Sheepshead Bay, which  
23 is a tremendous area for great resource the City  
24 has. I know there's something like a cost return  
25 ratio, of course, to the Army Corps. But, it's

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

also the economics of Sheepshead Bay, money plays a role in there as well, besides the recreational and educational, because the students at Kingsborough Community College utilize this facility. So, hopefully, we'll be discussing this a little bit more as the days or weeks go on. I know you're very stretched. What is it, approximately a \$60 billion budget the Army Corps has nationally?

TOM SHEA: About, yeah, I don't think - - the numbers that they use. It's large.

CHAIRPERSON NELSON: It was very large and yet, of course, if we have 578 miles, you know, of oceanfront property, if you will, or beach or river and all that kind of stuff, waterfront, I can't imagine what the Army Corps has to deal with and you have to take it, of course, and a lot of times it's political clout, where it may go. But, of course, it has to be based upon, you know, factual information as well. So, I'm hoping we can get to New York City areas really quickly.

I know, even like Seagate and Coney Island was renourished, for instance, about 13, 14

1  
2 years ago. Money has been put in I believe by the  
3 aforementioned Congressman Jerry Nadler to  
4 renourish again. But, that's another issue, as a  
5 matter of fact, soon playing at a theater near  
6 you. We are going to have a hearing on that as  
7 well. But, we are based now, of course, on the  
8 dredging issue situation. And, please, I'd like  
9 to follow up with the Sheepshead Bay item as well.  
10 And, again, the Chair of Community Board 15 is  
11 here, Theresa Scavo, as well. And, that's why  
12 Tony DeLernia was here.

13           Would you describe the process for  
14 obtaining a permit for a dredging operation, as  
15 far as government, non-governmental entities as  
16 well?

17           TOM SHEA: Sure. Basically, say  
18 it's a, you know, a marina wants to dredge. They  
19 will typically hire a copy and engineering firm to  
20 help do the design work and cost estimates, things  
21 like that and do the material testing. They will  
22 gather a bunch of information. They will come to  
23 the Corps of Engineers in a pre-application  
24 meeting, where we meet with the local, state and  
25 probably, in New York City, DEP also. So, all the

1  
2 regulatory agencies are at the table at the single  
3 time to meet with the applicant and go over the  
4 concerns they may have. Then, the applicant  
5 typically goes back, does some additional work and  
6 then, submits their permit. Corps of Engineers  
7 will then typically issue a public notice saying  
8 that there's a permit application; provide all the  
9 information.

10 And then, after a certain amount of  
11 time, they'll close. They'll consider anything  
12 that they heard and decide whether the permit  
13 should be issued or additional environmental  
14 analysis done, for instance an environmental  
15 impact statement or environmental assessment. At  
16 the same time, the Corps will also wait for all  
17 the other permits to come in. And then, once  
18 everything's in, it typically issues a permit for  
19 the work.

20 CHAIRPERSON NELSON: Are there any  
21 funds or grants available from either the feds or  
22 state or-- I won't even say city. I see, you  
23 know, the shaking of the head to the negative-- to  
24 offset the cost of dredging?

25 TOM SHEA: Not from the Corps of

1  
2 Engineers. There may be some from Department of  
3 Transportation or, you know, because it's a ferry  
4 terminal, there may be money that way or  
5 something. I honestly don't know.

6 CHAIRPERSON NELSON: Certainly not  
7 to any non-governmental entities then. Okay. And  
8 any measures that could be taken that could  
9 prevent or retard the sedimentation in critical  
10 areas of New York City Harbor? Or, is it just the  
11 periodic dredging? Is that the only long term  
12 solution?

13 TOM SHEA: I guess there's a lot of  
14 different land-- 'cause all the sediment, you  
15 know, starts from the land, then through the rain  
16 cycle, washes through. It erodes the rivers and  
17 all. So, a lot of it's coming from upstate, not  
18 necessarily New York City. Although there is--  
19 or, it's just the movement of the way the tides or  
20 the currents run that will move sand around.

21 CHAIRPERSON NELSON: Um, hm.

22 TOM SHEA: I don't know of any  
23 specific measures we take. However, in New  
24 Jersey, one of the driving forces of the Corps'  
25 participation in the Lower Passaic River, is to

1  
2 help dredge that river, which the whole 17 miles  
3 is a designated superfund site, because that  
4 material makes its way down to Newark Bay and into  
5 our channels. So, by cleaning it up there,  
6 through superfund and other and then, the Corps  
7 has some other authorities, we capture the  
8 material at its source, stop it there. So, that  
9 as sedimentation will continue, it should be  
10 cleaner and ultimately reducing the cost.

11 CHAIRPERSON NELSON: - - like a  
12 screen type of a vehicle, device to stop the  
13 sediment?

14 TOM SHEA: No.

15 CHAIRPERSON NELSON: How is that  
16 done?

17 TOM SHEA: Well, Lower Passaic,  
18 there'll be dredging done.

19 VENETIA LANNON: I think they're  
20 just saying that they are cleaning it up upstream  
21 from--

22 TOM SHEA: Yeah.

23 VENETIA LANNON: -- from New York  
24 City so that the sediment, when it does - - come  
25 isn't contaminated when it gets here. So, it'd be

1

2 then cheaper for us when we need to - - waters not  
3 so--

4

TOM SHEA: But, then--

5

VENETIA LANNON: [Crosstalk]

6

7

TOM SHEA: Right. And then, there  
are measures--

8

VENETIA LANNON: [Crosstalk]

9

sedimentation, I guess - -

10

CHAIRPERSON NELSON: No, no.

11

12

13

14

15

16

17

18

19

20

21

TOM SHEA: Right. But then, as I'm  
saying, there are measures. For instance, New  
York City has a large number of combined sewer  
outflows. All right. Basically, shutting those  
down so that anything that should go into a sewer  
and into a waste treatment is sent there to get  
cleaned before it goes into any of the water. On  
a huge storm, you know, there's a lot of chemicals  
that are washed off from the streets or dumped  
down the drain, 'cause, you know, Drano or  
whatever--

22

CHAIRPERSON NELSON: Um, hm.

23

24

25

TOM SHEA: -- there's a huge number  
of sources all over the City that eventually makes  
its way into the water system, the sewer system

1  
2 and then, through combines overflows, U-drain  
3 storms gets dumped into Gowanus, for instance. If  
4 you shut that off, you'd somehow prevent-- I mean  
5 the storm water still needs to make its way in.  
6 But, being able to separate the storm water from  
7 stuff that needs to be treated would go a long way  
8 into reducing the contaminate load and placing new  
9 loads there.

10 CHAIRPERSON NELSON: Um, hm.

11 TOM WAKEMAN: The textbook answer  
12 to your question, separate from the chemical  
13 contamination, which Tom has addressed--

14 CHAIRPERSON NELSON: Can you all  
15 hear that?

16 TOM WAKEMAN: -- is that there's  
17 three ways that you basically stop sedimentation  
18 from being a dredging problem. One is to do  
19 erosion control, as Tom mentioned, from the upper  
20 drainage basin. Second is some kind of deposition  
21 basin. I mean, you dig a pit or you build a dam.  
22 You build a dam, you stop all the sediment coming  
23 down streams, except what comes over the wier  
24 which causes erosion generally downstream. Or,  
25 you can increase the velocity of the water to keep

1  
2 the material in suspension, so that it goes past  
3 the project area. And, there's been some attempts  
4 to do that by building wiers or [pause] had one  
5 wier in [pause] near the Arthur Kill filled up  
6 after about 12 years, 15 years.

7           So, those three methods are used.  
8 Probably the best approach for this region, given  
9 the cost of doing business, is to do erosion  
10 control upstream in the drainage basin. Make sure  
11 the construction sites are carefully monitored.  
12 Make sure that the contractor that's responsible  
13 for keeping sediments from going down the waste  
14 water or the storm drain because it'll end up in  
15 the Hudson and then, ultimately, it'll end up in  
16 the Passenger Ship Terminal.

17           One of the things that you face in  
18 this region is we are still developing our  
19 understanding of the hydrodynamics of sediment  
20 transport characteristics of this Harbor.

21 Although it is 300 years old, there hasn't been a  
22 lot of studying here. There's been an enormous  
23 amount of studying in about the last ten years.  
24 But, prior to that, there were no books. So,  
25 we're still learning.

1  
2 One of the things that I find very  
3 gratifying is that you're having this hearing.  
4 Nobody paid attention for a very long time with  
5 what a fabulous resource you have here. The other  
6 thing is what EDC's doing; finally, looking  
7 strategically at combining the cost and the  
8 benefits and looking at this pragmatically and  
9 saying what are our best opportunities here. I'm  
10 delighted to hear that somebody's actually making  
11 money on dredge material, 'cause that was one of  
12 our dreams was to actually get rid of the stuff,  
13 see it as a resource that has some commercial  
14 value instead of seen as a waste that we're going  
15 to pay for.

16 One of the problems with, and the  
17 reason that the state didn't continue was they ran  
18 out of funding. So, they ran out of the ability  
19 to maintain staff on the project. However, if you  
20 treat it as a waste to the State of New York, you  
21 have difficulty sending it to Pennsylvania or any  
22 other place because they're saying, we're taking  
23 New York's waste. They will pay for that. Utah  
24 said that. Utah got a lot of money.

25 KATHRYN MCGUCKIN: To speak to your

1  
2 sedimentation issue, though, and I want to bring  
3 this to your Sheepshead Bay project, there's a  
4 more global sense of dealing with sedimentation,  
5 as was already mentioned. But, in an area like  
6 Sheapheads Bay or anything like that, where you  
7 have several marinas that are all co-located, the  
8 key there is to work together. None of them want  
9 to do that. But, that's the key. And, the reason  
10 is if Joe, Tom and Sally all have marinas and Joe  
11 dredges his, but Tom and Sally don't, guess what  
12 happens to Joe's. His fills up with the sediments  
13 from Tom and Sally's. Okay.

14           So, if they don't work together,  
15 it's a huge battle. And, they also, by working  
16 together, they get the economies of scale that are  
17 awarded to larger projects, because Joe only has  
18 to dredge 20,000 and Sally has to dredge 20,000.  
19 But, if you put them all together, now maybe you  
20 have 100,000 or a 200,000 cubic area project.  
21 And, you're sharing that mobilization and  
22 demobilization cost and you're sharing those  
23 testing costs. So, you're actually bringing down  
24 your per cubic area price if you work together.

25           CHAIRPERSON NELSON: The synergy is

1

2 there. I heard that happened at Kingsborough  
3 Community College. That was the problem. So,  
4 word to the wise. We've got to move forward with  
5 this as a team effort, without a doubt.

6 KATHRYN MCGUCKIN: Correct.

7 CHAIRPERSON NELSON: I know. We  
8 have some other people who want to also to  
9 testify. But, just one last question from me.  
10 How long does it take for a typical dredging  
11 project? And, I know, of course, it would based  
12 upon size and so on. But, let's say, from the  
13 smallest to the largest, sort of, if we can.

14 KATHRYN MCGUCKIN: - - take the  
15 largest.

16 TOM WAKEMAN: Federal projects,  
17 first have to come through a congressional  
18 request.

19 CHAIRPERSON NELSON: I'm sorry.

20 TOM WAKEMAN: If you're going to do  
21 a federal project, a large dredging project, a  
22 national dredging project, it has to come through  
23 a congressional request.

24 CHAIRPERSON NELSON: Sure.

25 TOM WAKEMAN: Then, you do the, the

1  
2 Corps does a recognizance. If it's found that  
3 it's in the national interest, then they go on.  
4 That process can take on the order of ten years  
5 and then, another 15 years to do the project, the  
6 construction. That's a large project, 100 million  
7 plus. And, that's been the average time. At  
8 least it was until Tom Shea did his feasibility  
9 study in two years.

10 For smaller projects, the hang up  
11 will be whether or not you can get both your local  
12 and your federal permit. And, that can take  
13 anywhere from two to five years. The LA Basin,  
14 they're not able to get their permits. They've  
15 been waiting the last seven years for permits on  
16 13 different projects. That's why they're not  
17 expanding. For a small marina, unless you have a  
18 disposal site, the state will not issue you a  
19 permit because the Congress gave them the  
20 authority for Clean Water Act certifications.

21 And, unless you can-- remember we talked about you  
22 dredge it and you transport and you dispose of it?  
23 Well, if you can't dispose of it, you're not going  
24 to dredge it. And so, until you're able to  
25 generate that disposal site, you're not able to

1  
2 get your dredging permit. And, that's the nexus  
3 between these two parts, as has been very clearly  
4 stated to you by EDC, if you can't find a disposal  
5 site, New York will not dredge because New York  
6 EDC will got to DEC and DEC will say no.

7 CHAIRPERSON NELSON: I believe  
8 Council Member Brewer has a question related to  
9 that.

10 COUNCIL MEMBER BREWER: Well, thank  
11 you, because I guess that was what I was trying to  
12 say earlier is that how much of our dredging is  
13 curtailed because we don't have a place to put  
14 what you just described, where DEC and Pete  
15 Grannis [phonetic] will not allow it. In other  
16 words, is that an impediment to, as you suggested,  
17 sir, expanding to deal with our population?

18 KATHRYN MCGUCKIN: It is an  
19 impediment, yes.

20 COUNCIL MEMBER BREWER: I mean--

21 KATHRYN MCGUCKIN: The fact that  
22 the permitting process, especially in the last  
23 couple years, is just being extrapolated to years  
24 instead of six months is something that we're all  
25 having to deal with. But, you know, a dredging

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

project can be simple. Small project like South Brooklyn Marine Terminal, we dredged 50,000 cubic yards; 45 days, it was all dredged and put upland. Perfect, no problem. The whole key is getting a program like this beneficial reuse program, that EDC has started out there and advertised so people know that there are ways to reuse it. Okay. So, that somebody who has a project that he needs fill for, he comes to EDC. I need some fill. Do you have some that meet my needs? And so, that we actually develop more sites.

COUNCIL MEMBER BREWER: That makes sense. So, that's what EDC is doing now--

KATHRYN MCGUCKIN: That's what--

COUNCIL MEMBER BREWER: -- correct?

KATHRYN MCGUCKIN: -- we're working on now.

COUNCIL MEMBER BREWER: Okay.

KATHRYN MCGUCKIN: But, it will--

COUNCIL MEMBER BREWER: That's exciting.

KATHRYN MCGUCKIN: -- take time to do that. And then, there is, like I said, there's a certain type of material that our project isn't

1  
2 meant to address. And, mine reclamation is  
3 something that is really excellent. But, we don't  
4 want to take it to the Pennsylvania mines, (a)  
5 because that's Pennsylvania, and (b) it's too far  
6 away. It costs a lot of money. But, you know  
7 what, we have quarries and mines right here in New  
8 York. Shouldn't we be looking at maybe we can  
9 reclaim some of our own quarries and mines with  
10 our dredge material? So, these are the long term  
11 issues that we want to look at that takes, like I  
12 said, the coordination of federal, city, state  
13 agencies to look at together.

14 COUNCIL MEMBER BREWER: So, what  
15 you're doing is then, you're working with state  
16 agencies, too, to try to come up with some  
17 solutions.

18 KATHRYN MCGUCKIN: We try real  
19 hard, but they come kicking and screaming. Can I  
20 say that?

21 VENETIA LANNON: Yeah, I think, you  
22 know, step one is to change the classification so  
23 it's not a solid waste. And, that's going to take  
24 time. And then, over that time, I think it's the  
25 same thing, and Council Member Brewer, you were

1

2 active in the Solid Waste Management Plan, you  
3 know, for the notion--

4

COUNCIL MEMBER BREWER: Not always  
5 on the right side, according to you, but, yes.

6

7 VENETIA LANNON: We got there in  
8 the end. And, I mean, that is the point that I  
9 think that when you're looking at exporting New  
10 York City's materials to places outside of the  
11 City, I mean, first of all, it would help if it  
12 wasn't being called a waste, which it's not. But,  
13 second of all, you know, we want to look first at  
14 places in-state, you know, to places like mines  
15 and quarries. But, again, you can just imagine  
16 the difficulty when we say to Westchester, oh, we  
17 want you to take this mud and don't worry about  
18 the PCBs in it, you know, trust us, it's clean,  
19 you know. That's going to be--

19

KATHRYN McGUCKIN: [Interposing]  
20 [Crosstalk] even know it's a waste, it's not a  
21 problem.

22

23 VENETIA LANNON: Right. It's going  
24 to be difficult. And, like the Solid Waste  
25 Management Plan, I think it's going to take a lot  
of stakeholders and a lot of, you know, coalition

1

2 builders.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

COUNCIL MEMBER BREWER: So, is there a coalition of environmental groups and EDC and Port all thinking about this? Or, is everybody thinking about it together?

VENETIA LANNON: Yes. And, I think it's coming to a head as Fresh Kills closes to accept dredge material, you know, as they go through their closure.

COUNCIL MEMBER BREWER: Um, hm.

VENETIA LANNON: You know, then it'll become more acute. But, you know, the representatives are here from the New York Shipping Association today.

COUNCIL MEMBER BREWER: Right, I see them.

VENETIA LANNON: Yeah, there are lots of people from the business perspective, from the environmental perspective. And, it's really, it's just beginning. I mean, your hearing is well timed.

COUNCIL MEMBER BREWER: Okay.  
Thank you.

CHAIRPERSON NELSON: [Off-mic] I'm

1

2

sorry. Instead of solid waste, maybe something like regulated material.

3

4

KATHRYN McGUCKIN: Exactly right.

5

6

CHAIRPERSON NELSON: It is a challenging name, fearsome name when you hear the other one.

7

8

KATHRYN McGUCKIN: Yes.

9

10

CHAIRPERSON NELSON: So, yeah, let's get rid of this waste business here. So, Council Member Viverita. Wow, I mean, I have another question. But, we really have to move, 'cause, again, I feel so sorry, again, about Tony having to leave. This has been extremely illuminating.

11

12

13

14

15

16

FEMALE VOICE: - - all of us.

17

18

CHAIRPERSON NELSON: Yes. We're going to track you down, especially for our little provincial, little situation as well. And, I'm sure all of my colleagues have a little touch, except the landlocked ones. So, we eliminate that many. But, wow, you know, Professor and Army Corps, EDC, tremendous. And, we really appreciate your testimony. And, it was so incredibly interesting. I think everybody in the room would

19

20

21

22

23

24

25

1

2 just about agree. So, thank you so much.

2

3

3 VENETIA LANNON: Thank you.

4

4 CHAIRPERSON NELSON: We'll be

5

5 speaking to you soon. Thanks. Melissa, thanks.

6

6 And, again, two experts in the field, the

7

7 university of probably bedrocks, they're

8

8 professors. And, we have with us, right now, we

9

9 have Roland Lewis and Ed Kelly, two people who

10

10 probably knew all of this already, plus more.

11

11 And, they can add with their expertise to more

12

12 information, no doubt about it. Thank you,

13

13 Melissa. Thank you.

14

14 ROLAND LEWIS: Which one works?

15

15 Okay. All right. Well, good afternoon, Chair

16

16 Nelson and the Committee. I'll echo the

17

17 sentiments of everybody that spoke before. I

18

18 think this is well-timed and incredibly important

19

19 hearing that you're holding. And, I think it's a

20

20 start of something very, very-- a dialogue that

21

21 needs to go on and hopefully action will follow

22

22 that. I'll just summarize, 'cause most of what

23

23 was said before is dead on it.

24

24 I often have the opportunity and

25

25 the obligation to try and present the dredge issue

1  
2 to lay public. And, the best example I always  
3 comes to my mind is something that was, in all our  
4 minds, that just a couple weeks ago when the  
5 mighty Intrepid returned to its berth up on Pier  
6 86, 'cause I remind folks that when it left a  
7 couple years ago for necessary repairs, it didn't  
8 leave. The press was there. The politicians were  
9 there. The brass bands were there. And, it was  
10 stuck in the mud. And, you know, fortunately for  
11 the museum and for all of us, Congressman Nadler  
12 and a bunch of other folks who had a lot of clout  
13 with the Army Corps and others, got on the horn  
14 and got some-- the dredging material and got the  
15 mud removed and the ship was able to get out and  
16 get repaired and come back again.

17 This isn't as true for many other  
18 folks. And, we've touched on them a little bit.  
19 But, I bring to mind, actually, a small business.  
20 It's Schildwachter Oil, up in the Bronx. They're  
21 a oil company up on Westchester Creek, a navigable  
22 water. They are now, and as you were talking  
23 about the large Army Corps budget, which is just  
24 not adequate to dredge all navigable waters in our  
25 City. They're still waiting for Westchester Creek

1  
2 to be dredged. And, as they wait, half-filled  
3 barges are now going up and down the Creek 'cause  
4 they can't fill a barge up all the way 'cause it  
5 will scrape bottom. And so, in thinking about,  
6 you know, play that out in terms of wasted effort,  
7 energy loss, money, exactly, it's insane.

8 And, it goes for education,  
9 recreation. We've talked about Sheepshead Bay.  
10 We've talked about the 79th Street Boat Basin.  
11 Thinking about the Science Barge. And, you know,  
12 think about Caddell Dry Dock. I brought a few of  
13 these for the audience. We're having a waterfront  
14 conference in about two and a half weeks. And,  
15 we're having a session on-- some of the same folks  
16 you're hearing today will be presenting. One  
17 guy's going to be presenting on a session on mud  
18 or on the silt is Steve Kalil of Caddell Dry Dock,  
19 who has a, you know, one of the largest repair  
20 facilities. He had to pay \$300,000 to just test  
21 the mud in front of his facility. And then, you  
22 know, millions more to dredge it. And, he dredged  
23 it before that and as he will say much more  
24 articulately and powerfully than I can, he was  
25 told by DEC that he did it once, you don't have to

1

2

do it again.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

But, it turns out, of course, that we came up with the dioxins from the upper Passaic and the PCBs from the upper Hudson are what's polluting him. He's picking up someone else's garbage on - - Basin, a tremendous cost in a very competitive business. He's a small businessman making a go of it in New York. And, you know, he's being harmed by this mud issue. And, it's our, you know, our collective responsibility to help the Schildwachter Oils and the Caddell Dry Dock, 'cause it's as much as we pave the roads and fill the potholes, dredging is our responsibility.

I'd just like to, again, reiterate the cost factor is what is driving this as much as anything else. It's a matter of money. And, you know, in these times, it's hard to talk about it. But, it's an, you know, just as many of the presidential candidates are talking about investment in infrastructure. This is an infrastructure. It's not seen by the common eye. It's not like a big bridge. But, it's an infrastructure investment that must be made to maintain our economy and our quality of life.

1  
2 I'll talk just very briefly about a  
3 couple of other things. And, I'll mention  
4 something that was mentioned by the Army Corps a  
5 minute ago. The upriver contamination, which, you  
6 know, you know, by Diamond Shamrock and GE, costs  
7 \$25 million a year in extra-- by a new report that  
8 Regional Sediment Management Work Group has put  
9 out. And, that's Army Corps, Port Authority, all  
10 those guys together, \$25 million a year in extra  
11 money to clean up. So, those folks, who polluted  
12 in the first place and are sending that poison  
13 downstream to us, have a economic responsibility  
14 to us to clean up.

15 There are solutions that need to be  
16 explored. Everything we should put on the table  
17 to do things. I'm so happy about what EDC is  
18 doing to try and help small business and use the  
19 dredge material in various creative ways. But,  
20 again, building islands in Jamaica Bay, all sorts  
21 of ideas should happen. You asked about Europe,  
22 in Rotterdam, they actually expand the port  
23 outward. They're building with dredge material to  
24 increase the land size of their city.

25 And, lastly, I was, again, the

1  
2 point made by Tom, from the Army Corps, about  
3 combined sewer overflow, you know. This goes to  
4 show you the holisticness and comprehensive nature  
5 of what our waterfront is. That's a dredge issue.  
6 I actually didn't think about that, but,  
7 absolutely. That's now going to be a standard  
8 talking point. My eyebrows went up the same time  
9 as yours did, Mike. It was exactly right, the  
10 solving the CSO issue is so important for things  
11 in the waterfront, but it's important for dredge  
12 because that garbage is being put in every time it  
13 rains, as well, and poisoning our environment.

14 So, I'll leave you with that. I'll  
15 leave you with my testimony and leave you with the  
16 invitation to please join us over at the Customs  
17 House, the Museum of American Indian - - . I  
18 think it'll be a great conference, including a  
19 session just on mud.

20 EDWARD KELLY: I'm going to be  
21 there.

22 CHAIRPERSON NELSON: Thank you,  
23 Roland. Please, and Mr. Kelly.

24 EDWARD KELLY: My name is Edward  
25 Kelly. I'm the Executive Director of the Maritime

1  
2 Association, Port of New York, New Jersey. And,  
3 I'm here today testifying on behalf of the over  
4 500 paid members of our organization, which relate  
5 to maritime commerce. We are a firm believer in  
6 the responsible mixed-use over this waterfront.  
7 And, dredging is a paramount issue.

8 As you can imagine, the waterfront,  
9 the interface between water and land is where  
10 maritime commerce really commences and begins.  
11 Ships leave from docks. They arrive at docks.  
12 Recently, the New York Economic Development  
13 Corporation had done a survey on maritime support  
14 services. And, it had revealed the high number of  
15 jobs, the activity of all of these relatively  
16 small businesses that are clustered here in our  
17 City, along our waterways that support the larger  
18 economic flow of international shipping, tanks,  
19 cargos, communities, trash, etcetera, that the  
20 maritime community handles every day.

21 Dredging is particularly onerous  
22 and important to these smaller operations.  
23 Roland, I'm glad you did mention Steve Kalil. You  
24 know, I've been working with Steve for several  
25 years now. We've gotten him to become a member of

1  
2 our Board of Directors. He has an issue that  
3 could actually prove embarrassing to the City of  
4 New York. The new Molinari class of the Staten  
5 Island ferries will probably not fit in his dry  
6 docks anymore because of dredging issues.

7 He, as has been mentioned, is on  
8 the Kill Van Kull, which is unfortunately a tidal  
9 flush area for the Passaic River. Now, I am one  
10 of the few people on the planet and a few of my  
11 classmates and friends who may be alive because of  
12 Agent Orange. So, I kind of have a soft spot in  
13 my heart for dioxin. But, nonetheless, you know,  
14 it's a bad thing. It comes down. Through no  
15 fault of his own, he's never produced dioxin, or  
16 had any reason to produce dioxin on or near his  
17 facility. But, nature flows downstream and he is  
18 the receptacle and because he's a dredged area,  
19 sediments tend to drop to the lowest levels. He's  
20 faced with a horrible issue. There is no place  
21 for him to dispose of these dredged materials.

22 Now, the problem is that yes, it  
23 has been mentioned that HARS and several other  
24 areas are around. But, not for partially  
25 contaminated material such as he has. And, most

1  
2 certainly, even for some of the upland facilities,  
3 Fresh Kills, etcetera, although there are spaces  
4 available, they're already committed to the large  
5 scale dredging projects, such as the Federal  
6 Navigation Channel, the 50-foot channel, etcetera.  
7 So, that they really don't have access to get to  
8 these locations, therefore, pushing the cost for  
9 dredge material disposal to a very high and a  
10 prohibitive level.

11 To suffice, let me say that  
12 government is probably at its best when it can  
13 enhance the public good by enabling situations  
14 that cannot possibly be achieved by individuals or  
15 by individual entities. That being the case,  
16 we're thoroughly enheartened with what New York  
17 Economic Development is doing to develop the  
18 Dredge Management Disposal opportunities. No  
19 individual business or entity along our waterway  
20 is going to have the political clout or the  
21 foresight to be able to engineer such deals as can  
22 be done by an entity of the government.

23 Now, we also would support that  
24 there be further state opportunities here, most  
25 notably with DEC, which has been, let's say, not

1  
2 the best partner to work with to get things done.  
3 They're doing their job. But, some of their  
4 parameters, definitions, etcetera, really should  
5 be readdressed, such as reclassifying this from  
6 solid waste to some less horrible-sounding thing.  
7 You know, if you noticed, we used to say in the  
8 business that it used to be dredge spoils. And, I  
9 hadn't heard that term all day. And, I'm glad  
10 because it gives it a negative connotation. And,  
11 to call it solid waste makes it even worse than  
12 spoils. So, I think we have to reassess some of  
13 our terminology.

14           And, we've got to find productive  
15 uses for what can be a constructive material.  
16 This will create opportunities for our businesses,  
17 particularly near shore and non-deep water federal  
18 dredging projects to be able to afford to  
19 participate in dredging opportunities. And, we  
20 would hope that perhaps EDC can also help to  
21 foster perhaps a cooperative operation here in our  
22 City, where we can combine dredging jobs and  
23 perhaps get a neutral third party dredging entity  
24 involved to help to spread costs.

25           When a small operator, who once

1  
2 every, anywhere from two to ten years has to  
3 dredge a relatively small amount of material, for  
4 him to go up against DEC, to go up against trying  
5 to develop a landfill project someplace, it's  
6 obviously not going to happen. And, as a result,  
7 even something as integral to our Harbor, as the  
8 Caddell Dry Dock, which services our tugs, our  
9 barges, most of the vehicles and vessels mentioned  
10 in our Marine Support Services Study, this guy's  
11 running out of space. He has to reprofile. He  
12 has to dredge. And, he can't do it.

13 Now, one other thing that hasn't  
14 been mentioned today, and there is in particular  
15 as a possible source of resource for Caddell and  
16 several others in the Kill Van Kull, in  
17 particular, and Arthur Kill, there has been  
18 created, as a by-product of the 50-foot federal  
19 channel, the states have also created a Bi-State  
20 Dredging Fund. That fund is a bi-state fund with  
21 New York Empire State Development Corp. and it was  
22 the equivalent in New Jersey. It's currently  
23 being held by the Port Authority. We have been  
24 absolutely and totally frustrated with getting any  
25 of that money to be used for the purpose it was

1  
2 specifically designated for. And, we would  
3 appreciate any help on that front as well. We  
4 have repeatedly gone to Empire State Development  
5 and we've been over to the Port Authority. And,  
6 we get this. And, we've been told, you know, so,  
7 we really are looking for how we can free up that  
8 money. There's 20-some odd million dollars in  
9 that fund. We have not been able to accurately  
10 determine. It's between 20 and \$23 million that  
11 we've been told is in there. And, we hope that  
12 that also can be put to productive use to assist  
13 primarily the small business owners that are  
14 addressed in our Marine Support Services groups.

15 So, in closing, we welcome  
16 government intervention because these smaller  
17 business are incapable of wrestling such huge  
18 economic, environmental issues without some type  
19 of an intermediary and perhaps, you know, not me  
20 to say and I don't give you the budget, but EDC  
21 may seem to be the best place for this to happen.  
22 And, we're very much encouraged that they're  
23 grabbing the bull by the horns and starting to  
24 move some of this along. Thank you.

25 CHAIRPERSON NELSON: Wow, thank

1  
2 you, Mr. Kelly, for bringing up that resource,  
3 too. Now, we can start looking into. As a matter  
4 of fact, Kathleen Wah [phonetic], from the EDC  
5 would like to say something. I think you have to  
6 go up here formally to do so.

7 FEMALE VOICE: I believe that was  
8 what he was talking about.

9 CHAIRPERSON NELSON: Oh, okay. Oh,  
10 this part. Oh, that's right, yeah.

11 KATHLEEN WAH: First of all, I  
12 should tell you all that before I started working  
13 for EDC, which I just celebrated my third  
14 anniversary, I was the Regional Dredging  
15 Coordinator for the DEC Region Two office. So,  
16 that's how EDC stole me away. Sometimes, they're  
17 kind of sorry they did because now they have no  
18 one on the other side.

19 But, the idea is that there is a  
20 Bi-State Dredge Fund. There is in excess of \$20  
21 million dollars in the New York portion of that  
22 fund. That fund is what paid my salary when I was  
23 at DEC. But, the personnel portion of it, the  
24 funds expired. The idea is that we, at EDC, have  
25 actually had internal discussions about the

1  
2 possibility of approaching the Port Authority and  
3 ESDC about the ability to manage those funds.

4 And, the reason that we have thought of that is  
5 that we do have dredging expertise. We now have a  
6 Dredge Material Management Program. Neither one  
7 of them has dredging expertise. And, neither one  
8 of them has a Dredge Material Management Program.

9 And, therefore, when someone wants  
10 to use those funds, nobody knows what to do.  
11 Nobody knows how to get them. There's no  
12 protocol. There's no nothing. So, the fact that  
13 I'm hearing today that Ed would actually support  
14 EDC being able to manage those funds is actually a  
15 benefit to me to hear that.

16 ROLAND LEWIS: If I may add, on the  
17 panel, there will be a representative from the  
18 Port Authority and also Chris Ward, the head of  
19 that Port Authority will be there at our  
20 conference. So, we can all get together, cut the  
21 deal right there on November 13th.

22 CHAIRPERSON NELSON: That's some  
23 great information that came out of this hearing.

24 ROLAND LEWIS: Um, hm.

25 CHAIRPERSON NELSON: Okay. Now,

1

2

where do we go with it? We'll have to follow through with this from this Committee through input from you waterfront geniuses. That'd be terrific. And, Council Member Brewer has a question.

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

COUNCIL MEMBER BREWER: Thank you very much. I think Kathleen deserves all the credit for that. So, congratulations. My question is something similar to what I asked before, is there anything technologically going on in other countries that could help us dispose-- what we heard earlier was that the thought of this cost benefit is going on, thanks to EDC. But it's expensive to try to think of some of these technologies that could convert. That's question number one. And then, also for the waterfront conference, Roland, do you have some of the environmental groups also coming so that they can help smooth the way with--

21

ROLAND LEWIS: Yeah--

22

COUNCIL MEMBER BREWER: -- Mr.

23

Grannis?

24

ROLAND LEWIS: The Baykeeper's

25

coming and, as a matter of fact, Jim Tripp, from--

1

COUNCIL MEMBER BREWER: Okay.

2

ROLAND LEWIS: -- Environmental

3

Defense is moderating the panel--

4

COUNCIL MEMBER BREWER: Perfect.

5

ROLAND LEWIS: -- on our dredge.

6

COUNCIL MEMBER BREWER: All right.

7

Go ahead, Mr. Kelly.

8

EDWARD KELLY: I would say that

9

yes, there are active and productive undertakings

10

in such exotic foreign locales as Norfolk,

11

Virginia--

12

COUNCIL MEMBER BREWER: Um, hm.

13

EDWARD KELLY: -- who is--

14

COUNCIL MEMBER BREWER: That is

15

definitely foreign.

16

EDWARD KELLY: -- who is a direct

17

competitor to this port--

18

COUNCIL MEMBER BREWER: Correct,

19

that's--

20

EDWARD KELLY: -- that have huge

21

dredge materials to reconstitute and expand a 543-

22

acre terminal island, Craney Island, that will be

23

in operation very shortly and will compete

24

directly with this Port. Also, they've got the -

25

1  
2 - Port-a-Port, courtesy of the U. S. Navy. You  
3 know, they maintain those depths because the  
4 submarines have to access in and out. So, they  
5 have a very low cost of operation for dredging.  
6 But, using dredge materials, yes, throughout the  
7 world and as nearby as Hampton Roads, Norfolk,  
8 Virginia. This has been used to reconstitute  
9 islands, to expand port facilities. It's been  
10 used to create golf courses, parking lots,  
11 etcetera. I think a few of the uses were  
12 mentioned here. And, that's happening all over  
13 the world.

14 COUNCIL MEMBER BREWER: Okay.  
15 Thank you.

16 CHAIRPERSON NELSON: Wow, sometimes  
17 this Committee feels like a kid in the candy store  
18 that it's like, it's there. It's there. How do  
19 we get to it? Purchase it? Do we break the  
20 window and take out the M and Ms or what? But,  
21 this is really-- some things are really evolving  
22 here, which is terrific. With no more questions,  
23 I suppose and no more statements, really we thank  
24 you so much. And, the panel before you, which was  
25 very, very interesting information, which will be

1  
2 utilized. We can go forward with it and have  
3 another hearing on this. And, see what we can  
4 come up with in the forms of trying to pressure  
5 organizations, governmental, to work within the  
6 framework and help our economy and our City, as a  
7 whole, recreational, as well. So, thank you so  
8 much, gentlemen. And, with no further questions--  
9 oh--

10 ROLAND LEWIS: No, no, I'm good.

11 CHAIRPERSON NELSON: Oh.

12 ROLAND LEWIS: Thank you.

13 CHAIRPERSON NELSON: Thank you.

14 With that, the Committee on Waterfronts is  
15 adjourned. Thank you.  
16  
17

C E R T I F I C A T E

I, DeeDee E. Tataseo certify that the foregoing transcript is a true and accurate record of the proceedings. I further certify that I am not related to any of the parties to this action by blood or marriage, and that I am in no way interested in the outcome of this matter.

Signature

A handwritten signature in cursive script that reads "DeeDee E. Tataseo". The signature is written in black ink and is positioned above a horizontal line.

Date November 24, 2008

CITY COUNCIL  
CITY OF NEW YORK

-----X

TRANSCRIPT OF THE MINUTES

of the

COMMITTEE ON WATERFRONTS

-----X

October 27, 2008

Start: 10:44am

Recess: 12:35pm

HELD AT: Council Chambers  
City Hall

B E F O R E:  
MICHAEL C. NELSON  
Chairperson

COUNCIL MEMBERS:  
Gale A. Brewer  
Melissa Mark-Viverito

## A P P E A R A N C E S

## COUNCIL MEMBERS:

Anthony Como

## A P P E A R A N C E S (CONTINUED)

Venetia Lannon  
Senior Vice President, Maritime Department  
New York City Economic Development Corporation

Kathryn McGuckin  
Assistant Vice President, Maritime Department  
Director of Dredge Material Management Program  
New York City Economic Development Corporation

Tom Wakeman  
Professor, Davidson Laboratory  
Stevens Institute of Technology

Tom Shea  
Project Manager  
United States Army Corps of Engineers

Roland Lewis  
President and CEO  
The Metropolitan Waterfront Alliance

Edward Kelly  
Executive Director  
Maritime Association, Port of New York/New Jersey

Kathleen Wah  
New York City Economic Development Corporation

1  
2 CHAIRPERSON NELSON: --including  
3 its economic benefits, the environmental concerns,  
4 the legal and regulatory requirements of dredging  
5 projects and, of course, the costs associated with  
6 dredging and disposal.

7 The Committee also looks forward to  
8 hearing the details of EDC's new Dredge Material  
9 Management program. And, our first panel will  
10 consist of Kathryn McGuckin, of New York City EDC,  
11 Venetia Lannon, also of New York City EDC, and I  
12 think it's Dr. Tom Wakeman, Davidson Laboratories,  
13 the Stevens Institute of Technology in Hoboken and  
14 Mr. Tom Shea of the U.S. Army Corps of Engineers.  
15 Please, if the first panel would begin. And,  
16 before you speak, whoever's going to speak first,  
17 would just identify themselves for the record.  
18 Thank you.

19 MALE VOICE: Good morning.

20 VENETIA LANNON: Hi. Ready? Good  
21 morning, Chairman Nelson and members of the  
22 Waterfronts Committee. My name is Venetia Lannon.  
23 And, I am Senior Vice President of the Maritime  
24 Department at the New York City Economic  
25 Development Corporation. With me here today is,

1  
2 to my left is Kathryn McGuckin, Assistant Vice  
3 President in the Maritime Department and Director  
4 of our Dredge Material Management program.

5 EDC would like to thank the New  
6 York City Council for convening this hearing on  
7 dredging in the New York Harbor and for inviting  
8 EDC to offer testimony to report on the progress  
9 that has been made to date, as well as the  
10 challenges that lie before us. By way of  
11 introduction, EDC is a public benefit corporation  
12 empowered by the City of New York via its Maritime  
13 contract to retain the City's maritime businesses,  
14 attract additional maritime business to the City  
15 and to promote maritime agreements for the City's  
16 waterfront properties. Dredging to maintain  
17 adequate water depths throughout the Harbor and at  
18 the City's waterfront berths is paramount to  
19 fulfilling these responsibilities. I will now  
20 turn it over to Kathryn to provide today's  
21 testimony.

22 KATHRYN MCGUCKIN: Thank you,  
23 Venetia. My name is Kathryn McGuckin. And, my  
24 testimony today will center on three topics;  
25 dredging, what it is and why it's needed, the cost

1  
2 of dredging and Dredge Material Management, what  
3 it is and why it's needed.

4 Dredging, the removal of sediments  
5 from waterways, allows for the survival and  
6 continued growth of the entire port of New York  
7 and New Jersey, the third largest port complex in  
8 the U.S. and the largest on the East Coast, as  
9 previously stated by the Chairman. Furthermore,  
10 maintenance dredging of waterfront berths located  
11 throughout the five boroughs, publicly and  
12 privately owned, is essential to maritime-related  
13 economic growth.

14 The United States Army Corps of  
15 Engineers, along with their local sponsor, the  
16 Port Authority of New York and New Jersey, is  
17 presently deepening the New York/New Jersey Harbor  
18 to a depth of 50 feet, the largest deep draft  
19 navigation project in U.S. history. Maintenance  
20 dredging to maintain depth is a constant in the  
21 Harbor with frequency varying throughout the  
22 Harbor's many rivers, bays and channels. As an  
23 example, the Passenger Ship Terminal on the  
24 westside of Manhattan requires annual dredging of  
25 approximately 300,000 cubic yards of sediments

1  
2 annually. Facilities on the East River, such as  
3 the South Brooklyn Marine Terminal, require  
4 dredging less frequently, about once every five  
5 years. The volume of sediment deposited in any  
6 given area is dependent upon several factors, most  
7 notably the flow rate of the water body and the  
8 number, size and shape of waterfront structures.

9           Historically, open water disposal  
10 at an ocean site has been the primary method of  
11 disposing of sediments dredged from the New  
12 York/New Jersey Harbor Estuary. The New York  
13 Bight Dredge Material Disposal Site, known as the  
14 Mud Dump Site, was designated in 1984 for disposal  
15 of up to 100 million cubic yards of dredge  
16 material from the Port and nearby Harbors. The  
17 Mud Dump Site and its environs located 5.3  
18 nautical miles east of Highlands, New Jersey and  
19 9.6 nautical miles south of Rockaway, New York,  
20 has historically been the major option for dredged  
21 material disposal since 1914. An average of four  
22 to five million cubic yards of dredged material from  
23 the New York/New Jersey Harbor has been disposed in  
24 the ocean each year.

25           In July 1996, in the interest of

1  
2 maintaining sustainable port development and  
3 environmental protection of the estuary and  
4 ocean, a letter signed by the Administrator of  
5 the U.S. Environmental Protection Agency and the  
6 Secretaries of the Departments of the Army and  
7 Transportation set forth the Administration's Plan  
8 to close the Mud Dump Site for disposal of dredged  
9 material. In a final rule that became effective  
10 September 29th, 1997, EPA de-designated and  
11 terminated the use of the 2.2 square nautical mile  
12 area of the Mud Dump Site. Simultaneous with the  
13 closure of the Mud Dump Site, the site and a 13.5  
14 square nautical mile area surrounding the site  
15 were re-designated as the Historic Area  
16 Remediation Site, also known as HARS.

17 Pursuant to this rule, the HARS is  
18 restricted to receive only dredged material  
19 suitable for use as Remediation Material which is  
20 defined as uncontaminated dredged material; more  
21 specifically material that meets the Category I  
22 standards set for the former Mud Dump Site and  
23 which does not cause significant undesirable  
24 effects, including through bioaccumulation.

25 On September 27th, 2000, to ensure

1  
2 that the remedial goals of the HARS would be met,  
3 the U.S. Environmental Protection Agency  
4 tightened the guideline for PCBs in dredged  
5 material placed at the HARS from 400 parts per  
6 billion in worm tissue to 113 parts per billion  
7 in worm tissue. This significant, more stringent  
8 change resulted in approximately 75% of the  
9 region's dredging projects being ineligible for  
10 placement at the HARS, which in turn resulted  
11 in the affected parties, being the Corps, the  
12 Port Authority and waterfront businesses, both  
13 public and private, taking a more focused look  
14 at other possibilities for beneficial reuse of  
15 dredged material. Upland beneficial reuses for  
16 dredged material include construction fill,  
17 brownfields remediation, landfill closures and  
18 wetland/habitat enhancement. Dredged material  
19 from New York/New Jersey Harbor has been used for  
20 these and other beneficial uses.

21 The bioassay tests required to  
22 determine the HARS suitability of dredged material  
23 as well as the conditioning of sediments,  
24 generally the addition of cement, and testing  
25 required for beneficial reuse of dredged material

1  
2 at upland sites significantly affect the cost of  
3 dredging projects. Prior to the closure of the  
4 Mud Dump Site, the cost of dredging, including  
5 placement at the Mud Dump Site, was approximately  
6 \$4 per cubic yard. Today the cost averages about  
7 \$16 per cubic yard plus the cost of the required  
8 bioassay test, which adds approximately \$242,000  
9 per composite sample to the total project cost.

10 EDC recently paid \$836,000 to  
11 determine whether sediments from the Passenger  
12 Ship Terminal were suitable for HARS placement.  
13 The cost of dredging roughly 300,000 cubic yards,  
14 including transport to the HARS for placement,  
15 was approximately 2.8 million. The project also  
16 included about 69,000 cubic yards of project  
17 sediments that were deemed unsuitable for HARS.  
18 This material was retested for suitability for  
19 beneficial use upland and upon being deemed  
20 suitable, was dredged, processed with cement and  
21 beneficially reused as landfill closure material  
22 at a cost of approximately \$5.5 million. Total  
23 cost of the Passenger Ship dredging project  
24 approximated \$9.1 million compared to the  
25 approximately \$2 million cost of eight years ago.

1  
2 Understandably a portion of the  
3 increase in the cost of dredging is due to the  
4 rising costs of labor, fuel and conditioning  
5 materials like cement. However, additional costs  
6 related to testing of dredged material have  
7 significantly increased the per cubic yard cost of  
8 dredging. The cost of bioassay testing required  
9 for determination of HARS suitability of dredged  
10 material, is approximately 242,000 per composite  
11 sample; upland testing runs approximately 15,000  
12 per composite sample for pre-dredge testing and  
13 \$1,200 per composite sample for pre-placement  
14 testing. Furthermore, the basic components of  
15 dredging and placement, such as fuel and cement,  
16 are commodities subject to lower prices when  
17 purchased in higher volumes. In the end these  
18 fixed costs makes dredging a volume economics  
19 business, the greater the volume of material  
20 proposed to be dredged the lower the per cubic  
21 yard cost.

22 As an example imagine three  
23 separate and distinct, yet geographically co-  
24 located dredging projects all proposing HARS  
25 placement, a moderately sized marina dredging

1  
2 50,000 cubic yards, the EDC's annual dredging of  
3 300,000 cubic yards from the Passenger Ship  
4 Terminal and a one million cubic yard Army Corps  
5 Federal Navigation Channel dredging project.  
6 Since the three projects are co-located, the  
7 mobilization and demobilization costs can be  
8 expected to be the same for each, approximately  
9 \$200,000. All three projects will submit one  
10 HARS composite for testing and analysis, about  
11 \$242,000. Therefore the per cubic yard cost of  
12 mobilization, demobilization and HARS testing for  
13 the three projects breaks down as follows; for the  
14 marina \$8.84 per cubic yard; for the Passenger  
15 Ship Terminal \$1.48 per cubic yard; for the  
16 Federal navigation channel project \$0.45 per  
17 cubic yard. Similarly, because the dredger can  
18 lock in a better price for fuel when purchasing  
19 large volumes, a lower per cubic yard price for  
20 the actual dredging of a high-volume, million  
21 cubic yard project can be expected to be less than  
22 for a 50,000 cubic yard project.

23 Dredging with beneficial reuse  
24 upland has similar economies of scale. However,  
25 project cost has two major differences. First,

1  
2 testing for upland placement is significantly  
3 less, costing \$15,000 per composite sample for  
4 pre-dredge testing and approximately \$1,000 per  
5 composite sample for pre-placement testing.

6 Second, placement costs are about \$110 per cubic  
7 yard. Placement costs are expected to escalate to  
8 two to three times today's cost of \$110 if local  
9 placement sites reach capacity with no new sites  
10 coming online.

11 In summary, the cost of dredging  
12 to small and moderately sized businesses,  
13 regardless of whether the placement site is the  
14 HARS or an upland beneficial use site, can almost  
15 be 20 times higher than for Federal projects of  
16 large volume, an amount so onerous as to be  
17 prohibitive.

18 Planning, in the form of local and  
19 regional dredged material management, seems to be  
20 the best way to reign in and possibly control  
21 escalating dredging costs.

22 The New York/New Jersey Harbor has  
23 a Dredged Material Management Plan, a DMMP, that  
24 serves as an important guide for the appropriate  
25 treatment and/or placement of material dredged

1  
2 pursuant to the Harbor Deepening Project as well  
3 as maintenance dredging of Federal Navigation  
4 Channels. EDC was a partner in the preparation of  
5 the original DMMP as well as the recently  
6 released 2008 update. To ensure that the  
7 approach to dredged material management  
8 remains environmentally and economically  
9 sound, the DMMP is a dynamic document that will  
10 be revised periodically to reflect the most  
11 current information relevant to dredged material  
12 management.

13           The implementation of the DMMP  
14 requires communication, coordination and  
15 cooperation-- and no coughing-- against and  
16 between a myriad of Federal, State and City  
17 agencies. To that end, a monthly Regional Dredge  
18 Team meeting and a quarterly Senior Partners  
19 meeting are convened. The City is represented  
20 at these meetings by EDC, the City's Office of  
21 Environmental Coordination and City Planning.

22           The recently implemented EDC  
23 Dredged Material Management Program is a direct  
24 result of being a participating member of the  
25 Regional Dredge Team. It is designed to

1  
2 beneficially use dredged material from throughout  
3 the New York/New Jersey Harbor Estuary region as  
4 alternative fill material at City-owned and/or  
5 privately owned sites requiring grading fill  
6 anywhere in the City. Eliminating the cost of  
7 fill for redevelopment projects through the  
8 beneficial reuse of dredged material is projected  
9 to result in up to \$30 million in savings to New  
10 York City and \$9 million in savings to EDC during  
11 fiscal year 2009. The Program anticipates  
12 collecting approximately \$3 million in placement  
13 fees during fiscal year 2009, 15% of which will be  
14 directed to a Dredged Material Management Fund,  
15 designed to assist local businesses with dredged  
16 material management issues through a grant and/or  
17 low- interest loan program.

18 A pilot project undertaken  
19 pursuant to the new Dredged Material Management  
20 Program resulted in savings to City Parks of  
21 approximately \$900,000. Placement fees of \$68,700  
22 were collected, with just over \$10,300 being  
23 directed to the Dredged Material Management Fund.

24 The most significant impediment--I  
25 can do this-- to the success of the Dredged

1  
2 Material Management Program will be the fact that  
3 in the State of New York dredged material is  
4 classified as a solid waste. Defining dredged  
5 material as a solid waste generally means that it  
6 must be regulated as such. As a result, public  
7 perception of dredged material tends to be negative  
8 and the use of dredged material is met with a  
9 variety of regulatory hurdles. Regulating  
10 dredged material as a "waste" severely limits  
11 beneficial reuse projects because the philosophy  
12 behind solid waste management is one of containing  
13 wastes to prevent their escape into the  
14 environment. Though recycling or reuse of wastes  
15 has become commonplace in municipal, and to some  
16 extent, industrial waste management, the same  
17 concept has not yet pervaded the area of dredged  
18 material management. As a result, regulating  
19 dredged material as a solid waste, even under a  
20 series of exemptions, known as Beneficial Use  
21 Determinations or BUDs, is not optimal.

22                   Technically, once granted a BUD,  
23 the exempted dredged material is no longer a  
24 waste. However, it is still perceived as such  
25 even though its use as grading fill requires it

1  
2 to meet the same site-specific chemical  
3 specifications as all other fill being accepted.  
4 Needless to say contractors are reluctant to use  
5 dredged material and communities reluctant to  
6 embrace it because of the stigma attached to solid  
7 waste. Thank you.

8           Beyond a doubt there is dredged  
9 material that is highly contaminated and  
10 unsuitable for beneficial reuse at upland sites.  
11 However, the same can be said of most any type of  
12 fill proposed as grading material. Declassifying  
13 dredged material and managing it as a regulatory  
14 material will provide the testing and oversight  
15 necessary to ensure the health and welfare of the  
16 public and the environment while allowing for a  
17 myriad of beneficial reuses.

18           The EDC Dredged Material Management  
19 Program will be a significant asset to finding  
20 upland beneficial reuses for the cleaner dredged  
21 material coming from the New York/New Jersey  
22 Harbor. It does not, nor was it meant to,  
23 address the fate of the dredged materials too  
24 dirty to be used as grading fill at City  
25 redevelopment sites and yet not dirty enough to be

1  
2 classified as hazardous waste. The management of  
3 these dirtier materials, after stabilization with  
4 cement, has to date included use as below-the-liner  
5 landfill closure material and mine reclamation  
6 material. It is management of these not clean,  
7 yet less than hazardous, sediments that is the  
8 true challenge, management that is  
9 environmentally and economically sound. This  
10 will require a multi-multi agency, regional  
11 approach to research, create and implement  
12 beneficial reuse opportunities.

13 To recap, the economic vitality  
14 and continued growth of the Port of New York and  
15 New Jersey, the third largest Port complex in the  
16 United States, is dependent upon keeping the  
17 Federal Navigation Channels and Port berths  
18 dredged. Regulating dredged material as a waste  
19 severely limits beneficial reuse projects.  
20 Dredging is expensive and the cost of dredging  
21 has become onerous for small and moderately sized  
22 businesses. The cost of dredging will continue  
23 to escalate unless local and regional beneficial  
24 reuse opportunities are identified and brought  
25 online. Dredge Material Management is a federal,

1  
2 state and city multi-agency responsibility  
3 requiring immediate action and solutions that are  
4 environmentally and economically sound.

5 I thank you for your time. Please  
6 note that, for your convenience, our presentation  
7 has been attached to the back of the testimony.  
8 I'll now turn it over to Venetia and for any  
9 questions you may have.

10 CHAIRPERSON NELSON: I know that  
11 Professor Wakeman has to get back to teach class  
12 soon. So, I don't know if you need to speak next?

13 KATHRYN MCGUCKIN: Oh, his students  
14 won't mind if he's not there, will they? I never  
15 minded when the Professor didn't show.

16 CHAIRPERSON NELSON: Get the - -  
17 right?

18 TOM WAKEMAN: Miss McGuckin really  
19 provides you a broad description of the issues  
20 that face the City, as well as the region. What  
21 I'm planning to do based on the [off-mic] was to  
22 simply give you 101, very basic. It turns out  
23 that Mr. Shea's office is going to do something  
24 similar.

25 Most ports, whether they be coastal

1  
2 ports or river ports need to be dredged because  
3 they get sediment in from the drainage basins or  
4 they get sediment from moving along the coast.  
5 When we try and bring a ship up to the land, we've  
6 got to make the berth there for them. Modern  
7 ships, because of economies of scale and because  
8 trade policies we put in place over about the last  
9 25 years has caused all trade to be part of a  
10 global marketplace. That said, containerization,  
11 which also evolved around here starting in 1956,  
12 has caused larger and larger ships to be built.  
13 And, we're at about the eighth generation of  
14 container ships at this point.

15 Ports are significant economic  
16 engines. But, more importantly, ports are now the  
17 commercial gateways that we have to the world in  
18 order to get goods. About 50% of the goods that  
19 we use in this nation, excuse me, in our region,  
20 that's shows how provincial I am, come from our  
21 local port. About 30% come from LALB, which is  
22 hitting its capacity very quickly because they're  
23 not able to build new projects. They don't need  
24 dredging. However, they need expansion, a plan.  
25 And, about 20% come from along the other East

1  
2 Coast ports. In other words, if we lose parts of  
3 other ports, which we could from the West Coast,  
4 we will not be able to take care of the consumer  
5 demands that we have in this region.

6 The other thing that becomes a  
7 thought to consider is the economic engine of this  
8 region has the potential to grow with the opening  
9 of the expanded Panama Canal, which will occur in  
10 2014 or 2015. Ships that earlier were only going  
11 to the East, excuse me, the West Coast, will be  
12 able to come to the East Coast and serve us  
13 directly.

14 There's two types of dredging.  
15 There's the excavation of the material. And,  
16 there's the disposal of material with a link in  
17 the middle of transport. For a very long time,  
18 this region, unlike many other regions in the  
19 country, didn't have to worry about disposal of  
20 dredge material because it all went to the ocean.  
21 And, under the Federal rules, if you have an ocean  
22 site, or if you have any other option besides the  
23 ocean site, you have to use it. So, when things  
24 started to change here, about 12 years ago, the  
25 region galvanized, got together, led by the Corps

1  
2 of Engineers. I was working for the Port  
3 Authority at that time responsible for their  
4 waterways development, and came up with a program  
5 called the Dredge Material Management Plan for  
6 disposal of this.

7           Most of the material we have here,  
8 about 50%, is clean and can be used beneficially  
9 either by covering the Mud Dump or in reef.  
10 Contaminated material has to be treated in some  
11 fashion, as Miss McGuckinton mentioned. Either  
12 initially, it was put in pits and then, after  
13 that, in this region, we developed a very  
14 expensive processing method that turned it into a  
15 resource. The first utilization of that was for a  
16 parking lot at Jersey Gardens over in Elizabeth.  
17 The reason that the contractor wanted to use it  
18 was because it doesn't have differential settling.  
19 It's all nice graded fill.

20           We have maintenance issues in this  
21 Harbor and we have new construction. In order to  
22 be part of the 21st century global port complexes,  
23 we have to be at about 15.2 meters, or 50 feet.  
24 That project's underway. The City is a  
25 participant. And, there's about 20 million cubic

1

2

yards left to be done on that project out of a total of 50 million. So, it's very well on the way.

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

The other things, there's an ongoing maintenance problem. The area is challenged by three principal superfund sites. One, PCBs in the Upper Hudson; two, dioxins on the Passaic River and three, mercury on the Hackensack. Those three chemicals come in and have been part of the reason the material's not ocean acceptable any longer. Those legacy sediments will be us for another several decades.

The principal places that we've been focusing on for dredging and will have to continue are the connecting channels to where those berths are and the container terminals. And, this port really is a combination of container activities, auto activities and break bulk. Most of the break bulk is salt coming in; going out, it is scrap metal and waste paper.

The dredging challenge essentially comes down to making sure that the federal government's able to maintain their schedule, which is-- had the Corps receiving on the order of

1  
2 100 million a year to keep this project moving and  
3 completing it before the Panama Canal opens  
4 because the Panama Canal will be able to take  
5 these larger vessels, carrying about 8,000 to  
6 9,000 20-foot equivalents. And, without 50 feet,  
7 we will see that cargo go to Norfolk or South.  
8 And, it's going to come here then by truck, which  
9 is not a real good way to move cargo these days,  
10 particularly on I-95.

11 The other projects that we have in  
12 this area are influenced by regulatory  
13 requirements of both New Jersey and New York.  
14 And, as Katie mentioned already, DEC classifies  
15 dredge material as waste, therefore, it falls  
16 under federal regulations for RCRA and that  
17 changes, not only the public perception, but the  
18 rules for placement. New Jersey doesn't handle it  
19 that way. So, there's been more flexibility  
20 there. Pennsylvania the same thing. In general,  
21 the federal government, I believe, does not treat  
22 it under RCRA, nor do most other states.

23 Finally, the expanding financial  
24 concerns, the amounts of money were already  
25 mentioned in dredging, and it's only going to go

1  
2 up if fuel goes back up. And, in this day and  
3 age, we have to be cognizant that all project  
4 costs limit the ability to actually do a project.  
5 And, the question's whether or not it's the best  
6 place for the city, the state, the federal  
7 government to put their money.

8           The challenges are we don't have  
9 any disposal sites here. The ocean site was  
10 closed in one year. They had one last shot in '97  
11 to put what remaining material that could go there  
12 that could be capped. Thereafter, we had a pit in  
13 Newark Bay for a short period of time. It's still  
14 there, but it can't be used. It's not permitted.  
15 So, everything else has been going on land. There  
16 are some long term opportunities. But, there're  
17 also large cost associated with that, such as  
18 taking the material to Pennsylvania and using it  
19 for acid mine drainage pit cover; reclaiming  
20 mines, in other words.

21           There is a 1.2 million yard  
22 requirement every year for disposal on land  
23 because it's not acceptable for ocean or inland  
24 waterway disposal. These are issues that we'll  
25 have to grapple with because, to me, dredging is,

1  
2 as you said, an unseen infrastructure requirement,  
3 if, indeed, you want to be a port. If you want to  
4 be a port this day and age and not a feeder port  
5 or a barge port, which means it's rehandled  
6 somewhere else and brought to you, which adds to  
7 the cost of delivery. Then, you have to maintain  
8 the channels, just like you have to maintain the  
9 roads and driveways and parking lots.

10 It's the choice that the region  
11 faces, not recognizing, I don't think, that the  
12 rules of the international trade are changing and  
13 changing rapidly. Thank you.

14 CHAIRPERSON NELSON: Thank you.

15 [Pause] appreciate it. You said the whole panel.

16 MALE VOICE: Yeah, Mr. Shea's next.

17 CHAIRPERSON NELSON: Okay. Sorry,  
18 I was requested to have Mr. Shea go next. That  
19 okay?

20 TOM SHEA: Yeah, we're going to--

21 CHAIRPERSON NELSON: Thank you.  
22 Army Corps of Engineers who were so pivotal to our  
23 economic situation right now.

24 TOM SHEA: Briefly change out - - -

25 -

1

CHAIRPERSON NELSON: Um, hm.

2

TOM SHEA: -- slide mount.

3

CHAIRPERSON NELSON: No problem.

4

Please, let me introduce Council Member Melissa Mark-Viverito, who joined us. Remiss I didn't do that earlier.

5

6

7

MALE VOICE: Gale's here, too.

8

CHAIRPERSON NELSON: Oh, and

9

Council Member Gale Brewer. Nice to see you, Gale.

10

11

COUNCIL MEMBER BREWER: - -

12

CHAIRPERSON NELSON: You're

13

welcome.

14

TOM SHEA: Okay. Good morning.

15

I'm Tom Shea. I'm a project manager at the United States Army Corps of Engineers. We're the world's oldest and largest engineering construction firm. Now, I'm blind 'cause I-- I'm going to be doing a Dredging 101. That's what I was asked to do. I will not go into as many details of our projects that we have going on and focus more on mechanics, why we do things and some of the issues involved. Again, some of this-- got some stuff on here doesn't make me look good, here. I don't know

16

17

18

19

20

21

22

23

24

25

1  
2 what it is. Oh, no, don't. Hopefully, this'll  
3 work.

4           Again, New York Harbor was  
5 originally, you know, when Henry Hudson came in,  
6 about 17 feet and we were first and naturally  
7 deep. So, anything, all big ships come in because  
8 we've dredged. And, we've dredged a lot. The  
9 Corps of Engineers maintains over 240 miles of  
10 channels in New York City. Those range from 45  
11 feet deep along the Kill Van Kull. And, in some  
12 areas, they're 4, 6, 10 feet. Some of the smaller  
13 ones that we get for recreation or some barge  
14 movement in some of the small rivers, like the  
15 Bronx River, say. And, we're deepening  
16 approximately 45 miles right now.

17           These numbers, you've all seen,  
18 we're the largest port on the East Coast. Lots of  
19 money, 35% of the U.S. population served. That  
20 goes up to almost 60 or 70% that's almost a day or  
21 day and a half travel time away from us. A huge  
22 amount of goods come in because there's a huge  
23 population and we, as Americans, like to buy  
24 stuff. And, that stuff, a lot of it all comes in  
25 and that's generating the big stuff.

1  
2 Why do we dredge? Provide access  
3 to land facilities; provide economic loading of  
4 the ships; maintain anchorages or channels for  
5 recreation; remove contaminate materials and  
6 provide source material for beaches. We have a  
7 program where when we're dredging sand, we can  
8 place that on a beach at a really good deal for  
9 the local sponsor.

10 Graphically, here's how things have  
11 gotten started. When containerization started in  
12 the 1960s, there were maybe a thousand, less than  
13 a thousand TEUs or 20-foot equivalent units. So,  
14 that's essentially one container each. And, they  
15 range from 20 to 53 feet long. They didn't  
16 require a lot. They were converted oil ships.  
17 And then, the shipping lines start building  
18 specific ships to handle these. And, currently,  
19 we're in the-- around 6,000 TEU, getting up to  
20 8,000 and there's even rumors or there were some  
21 rumors going on, maybe a 15,000 TEU ship; huge  
22 things. And, as they get bigger, they actually,  
23 you know, they get longer, wider and they get  
24 deeper. And, as they get deeper, we do the  
25 economics to see if we should deepen the channels.

1  
2 All of our channels must be economically  
3 justified, which I'll touch upon in a second.

4 I classify dredging for three  
5 reasons; one, new work. And, that's to deepen the  
6 existing channel so that we can bring in the newer  
7 vessels. An example of that is the New York  
8 Harbor, deepening that I'm the project manager  
9 for. And then, we also maintain channels.

10 Channels, because of the flow of sediment down,  
11 they'll shoal up and then, the draft decreases.

12 For federal channels, Congress authorizes a  
13 specific depth. And, we have a program where we  
14 can go in and remove channels. They're typically  
15 on a certain basis. And then, an example of that  
16 would be like the Intrepid earth required  
17 maintenance dredging. There's Jamaica Bay, even  
18 the New York Harbor. And then, finally,

19 environmental. This is outside of dredging for  
20 economic purposes. This is to remove material,  
21 either because of superfund concerns or non-  
22 superfund, environmental restoration or superfund.

23 New work, when the Corps does it,  
24 we do a feasibility study for the New York Harbor.  
25 That actually only took two years. And, hence the

1  
2 loss of all my hair, or most of it. It was fast-  
3 paced. And, fortunately, we were able to get the  
4 funding to do that. The depths are based on an  
5 economic analysis. And, the bottom line is the  
6 benefits have to outweigh the costs for the Corps  
7 to recommend the project, unless certain things  
8 happen. And, I wasn't going to get into those  
9 type complications at this. And, we do the  
10 calculations based on transportation cost savings.

11           When we know, like a 6,000 TEU ship  
12 can come in, it comes in lightly loaded. It may  
13 have 4,000 TEUs. The cost to operate that ship is  
14 going to be the same whether it's fully loaded or  
15 lightly loaded. So, if we can bring that in  
16 loaded, fully loaded, the unit cost per container  
17 decreases and that's essentially your benefits.

18           Maintenance dredging, we have a  
19 certain depth. It shoals. Every so often we'll  
20 do surveys. We do-- I'm lacking the name of it--  
21 controlling depth reports that we publish on the  
22 internet that tell you what the controlling depth  
23 of the channel is. And then, if it goes below the  
24 authorized depth, we have programs. We get money  
25 from Congress to go and dredge it. That usually

1  
2 happens maybe every two years. Some projects  
3 every ten or 30. Some channels, like the  
4 Anchorage Channel has enough flow and energy that  
5 it doesn't require any maintenance.

6 And then, environmental, this is  
7 for restoration or CERCLA. It's based on human  
8 environmental risk assessments, not really tied in  
9 with economics. When the Corps recommends an  
10 environmental dredging that's not CERCLA, we look  
11 at the cost of the first unit cost to dredge, say,  
12 10 feet, as a base, automatically justified. And  
13 then, we try to go down and look at what the  
14 optimal amount is or when that last increment just  
15 costs way too much to justify it.

16 How we dredge really depends on  
17 what we're dredging. Here's some of the types of  
18 stuff we have; sand, soft mud, Glacial Till, clay,  
19 bedrock. And, we go down from the stuff that's  
20 really easy to the stuff that's really hard.

21 I have two graphics that show what  
22 we're doing, if you want to use this one. We have  
23 essentially two types of dredges. We have the  
24 clamshell here. And, the dredge basically stays  
25 in one place and drops its bucket. And, the

1  
2 bucket just scoops up material and then lifts it  
3 up. And, the bucket looks like that. And then,  
4 we have an excavator. This is basically a back  
5 hoe. But, it's a really, really big back hoe.  
6 Both of these have been on Marne and Marvels and  
7 all the History Channel things. There's a couple  
8 of shows on that have them. And then, when we get  
9 into bedrock, we throw in a third barge, which is  
10 our drill barge, where we're required to drill  
11 holes into the bedrock on a certain pattern. And  
12 then, we put in charges and then, that fractures  
13 the rock.

14           And then, we'll go back with the  
15 excavator and clean that up. All the mud is then  
16 put on a scow, or the dredge material's put on a  
17 scow. Depending upon what material that is, the  
18 scow may be a bottom dumping scow like this,  
19 where, like, for sand, it goes out to the HARS;  
20 goes out, the bucket opens up, the material drops  
21 from the bottom and then it comes back in and re-  
22 cycles. The other type is more like a bowl. And,  
23 the material to remove it, they typically have a  
24 smaller clamshell that removes the material.

25           Here's another example of one.

1  
2 This would demonstrate how the rock would have  
3 been broken up. You have a excavator, just scoops  
4 it all up, puts it in the barge. A little bit  
5 further behind it, the dredging barge would be  
6 removing it. And then, in most areas, we have  
7 material, even though we're going to like a  
8 project depth, which would be this dotted line,  
9 there's softer material usually on top of it,  
10 perhaps clay, Glacial Till, sand, whatever. So,  
11 we have to remove that so that the progress is  
12 remove it with the clamshell. Whatever we can't  
13 remove with that, they may try to remove with the  
14 excavator. And, if they can't, go back, drill it  
15 and then, remove it. Essential thing.

16 Now, we're getting in the fun part,  
17 where we have some pictures. This is an example  
18 of a hopper dredge. It's a huge boat with pipes  
19 that go down to the bottom. This is what's on the  
20 bottom. Essentially, it's a vacuum machine.  
21 Using hydraulic pumps, it just pumps water, sucks  
22 the sand with it. It then goes into hoppers  
23 that's on the dredge. Once the hoppers are  
24 filled, usually to an economic fill, which means  
25 it's pumping water out 'cause there's a large

1

2 amount of water that gets pumped in also. That's  
3 allowed to flow overboard so you're getting just  
4 the sand in the hopper. It takes off. It'll go  
5 to the HARS or it'll go to someplace when we're  
6 doing, like, environmental restoration building an  
7 island. It'll go there to pump the material out  
8 to stockpile it or move it on to the beach. And  
9 then, it comes back and it just continues to do  
10 that.

11 This is the New York. This is an  
12 example of the excavator. To give you a size,  
13 that's the size of the bucket. It's huge. This  
14 is one of our former district engineers standing  
15 inside of it. Huge teeth. And, you can see why  
16 that thing's great for digging up rock. The  
17 problem we have with this is it does generate a  
18 lot of maintenance requirements, a lot of  
19 hydraulics. But, it just, you know, might say  
20 gobble it up and it just really nice. When you're  
21 out there watching, this does not look so big  
22 until you actually get to go on it.

23 These are the clamshells. This is  
24 just a normal-- actually it's what we term a  
25 "environmental bucket." Same with this. They

1

2 function the same way. They're both designed to  
3 scoop it out. A normal clamshell mud or water can  
4 flow out. It's kind of messy. The environmental  
5 bucket is designed to help contain it, reduce the  
6 amount of water. And so, you reduce suspension in  
7 the water. It's a bit more, when you're dealing  
8 with contaminated materials, that's the bucket  
9 we're required to use. And, we have one that's  
10 about 26 cubic yards. And, it's great for  
11 production.

12

13 There's a drill boat, three of  
14 them. You can see, basically, just like any drill  
15 that you might see drilling for water or drilling  
16 onshore. They drill. When they're getting ready  
17 to blast, there's a whole line of yellow charges  
18 that come out. We will only do two blasts during  
19 the day; one typically an hour after sunrise and  
20 then, no later than an hour before sunset. So,  
21 any of our gurat [phonetic] blasting only occurs  
22 during daylight hours, Monday through Friday.  
23 And, we don't allow our contractors to blast on  
Sundays or federal holidays.

24

CHAIRPERSON NELSON: That's good.

25

TOM SHEA: Excuse me?

1  
2                   CHAIRPERSON NELSON: You don't want  
3 to scare the hell of everybody.

4                   TOM SHEA: Well, we have a lot of  
5 issues, especially in the Kill Van Kull where we  
6 do most of that. A lot of residents, you know,  
7 they feel the vibrations. They feel we're going  
8 to tear their house down. And, that's not the  
9 case. And, we have a large program to go and  
10 every time we're in the area, we will survey the  
11 house, take pictures, make drawings, take video of  
12 it. And, if they have a complaint, they file a  
13 claim. We'll investigate it. And, you know, if  
14 it is, you know, we bring in the experts to figure  
15 out if this was caused by vibration. A lot of the  
16 vibrations are garbage trucks or buses. I mean,  
17 that's generating much more damage to any  
18 structure than us.

19                  CHAIRPERSON NELSON: This is a - -  
20 you distribute, like, information to the locals.

21                  TOM SHEA: Right. We distribute  
22 pamphlets to every house, every property in the  
23 area, well, within a 15 foot radius of where we're  
24 going to dredge or band, more appropriate. And  
25 then, we'll advertise in the newspaper for public

1

2

3

4

5

meeting that's held at least two weeks prior to the start of blasting. And then, our schedules are posted to Staten Island Borough President office and then, our website.

6

7

8

9

10

11

12

13

14

What do we do with the dredged material? This has been discussed in detail. But, again, it depends on the material. Sand, we can send it to the HARS or we can use it for island creation or put it on a beach. Unfortunately, a lot of material we're dredging now is so fine that, if it was to go on a beach, it would wash off over the first year. So, it's not beneficial to do that.

15

16

17

18

19

20

21

22

Soft mud requires testing. And then, it can either go upland if it doesn't meet the HARS suitability. Or, it goes out to the HARS. Glacial Till, we tend to send that out to the HARS. It makes good capping material. Clay, we send out there, too. And then, bedrock, the two states usually fight over this material so that they can create artificial reefs.

23

24

25

Here's what one of the landfills, this is in Bayonne. This is the former Marine Ocean Terminal Bayonne. This is the Port Jersey.

1  
2 Manhattan and Brooklyn are over here. This was a  
3 landfill. It required closing. And so, we were  
4 bringing the dredge material to a processing site  
5 that was right onsite. A scow would come in. It  
6 would be off-loaded, processed and then,  
7 distributed around the landfill based on the  
8 engineering and ultimately the designer's  
9 requirements. And, this project is finished and  
10 it's a rather nice looking golf course. It looks  
11 rather challenging, too.

12                   And then, Tom mentioned mine  
13 closure. This is one picture of one. This is  
14 before and an after shot. Again, mines, basically  
15 open rock and then, they get acid rain or they  
16 generate a bad runoff, similar requirements to  
17 landfill closure, where you can cap the material,  
18 cap whatever it is and then, landscape it so that  
19 it's nice looking.

20                   Sediment stabilization is the heart  
21 of reusing the dredge material. Again, it's  
22 brought in by scows. Each process is slightly  
23 different. Some of them are even patented now.  
24 When it's brought to the cycling material, it's  
25 typically dewatered or pumped out. And then,

1  
2 dewatered, mixed with fly ash or cement or some  
3 stabilizing product. And then, the end result is  
4 similar right here. It basically looks like dirt  
5 that, you know, if you went to, you know, you  
6 called a company for landfill dirt, it would be  
7 very similar. And, it's a great resource.

8           Island restoration, this is Elder's  
9 Island, that's out in Jamaica Bay. We have two  
10 authorities that do this. One was the Dredging  
11 Authority and then, an environmental restoration  
12 authority. This is where we brought sand from the  
13 Anchorage One and Ambrose Channels to Elder's. It  
14 was basically the island almost went away. And  
15 now, we've rebuilt it. I don't have the specifics  
16 on the number of acres we've rebuilt. We planted  
17 grass, landscaped it and now, we're monitoring it  
18 with the Anchorage 1B Channel. And, we're going  
19 out with a second contract to continue building  
20 the island. That's been postponed due to bidding  
21 concerns. But, this is a great opportunity to  
22 restore Jamaica Bay and the natural resources and  
23 great habitat that we have out there while doing  
24 something with the dredge material.

25           Funding, for me, in the new work,

1  
2 the projects are funded partially by the federal  
3 government and then, the local sponsor. That  
4 share depends on the depth it is. It goes 25,  
5 actually 15, 25 or 50% share. And, most of the  
6 work in New York Harbor is cost shared with the  
7 Port Authority. And then, they have supporting  
8 agreements with the State of New York or the State  
9 of New Jersey for some specific channels in the  
10 deepening project.

11 Federal maintenance, the federal  
12 projects are deepen at 100% federally funded,  
13 unless the project is post-1986. So, for  
14 instance, the 50-foot project-- actually, it's  
15 when depths go beyond 45 feet, then they get cost  
16 shared for the incremental costs of maintaining.  
17 And, beyond 50 feet, there's only one project that  
18 we do that. And then, the 50-foot we'll have  
19 that.

20 And then, there's the local  
21 maintenance. When you have a marina or the  
22 berthing areas to a huge channel, that's all local  
23 owner responsibility. And, that's, again, where  
24 you get, as very well described by Katie, the  
25 problems associated with the cost of dredging,

1  
2 cost of testing the material and it gets--  
3 however, we have done in the past, for instance,  
4 Merrimac, I know for one, we had a maintenance,  
5 federal channel maintenance project. And then,  
6 the Anchorage channel was non-federal. We were  
7 able to combine the total area, dredge it under  
8 one contract and then, we basically divvied it up  
9 on who pays for what. That helps the local  
10 because it reduces a lot of the-- you increase  
11 your unit quantities, which drives down the unit  
12 cost of dredging. And, it also drives down the--  
13 or, you save money on the mobilization and demo,  
14 which can typically be about 10% of the total  
15 cost.

16 Various issues, again, dredge  
17 material testing. It's expensive. It gets  
18 expensive 'cause someone ends up counting the  
19 number of shrimp that have died after a certain  
20 number of days. The shrimp are not the type you  
21 eat. They're really small. You got get them  
22 under a microscope and do all that. And, that  
23 takes time and that drives up the costs.

24 Upland placement, again, they can  
25 range from 50 to \$100. Back in, it was '97, Tom,

1  
2 we sent material out to Utah at about \$115 a cubic  
3 yard. That barge got sent on a rail car. It used  
4 just about every transportation means, except for  
5 a bicycle to do it. At that point, we said no,  
6 there's got to be a better way. And, that's when  
7 we all started working together to do that.

8                   And then, there's environmental  
9 issues. There's loss of habitat at times.  
10 There's an impact to specific species of concern,  
11 for instance, winter flounder is a species we look  
12 after as an indicator of the overall health of  
13 other species. Air pollution, the New York Harbor  
14 is funding because we were not in compliance with  
15 the Clean Air Act for the construction of the  
16 project. We're going to spent up to \$28 million  
17 in repowering all the Staten Island ferries so  
18 that they reduce their emissions, especially Knox  
19 [phonetic], so that they're all going to be  
20 cleaner. We've also had a program through the  
21 Port Authority that's going to get cost-shared to  
22 repower a lot of the tug boats that spend about  
23 90% of their time in New York Harbor.

24                   Noise is an issue for the residents  
25 out in Staten Island, in Bayonne. Even though we

1

2 tend to be in compliance with the City Noise  
3 Regulations, it's this constant drone. It's  
4 constantly there. It's something that's new and  
5 it's an issue.

6

7 And then, finally, we have  
8 suspension of solids. This is more of a concern  
9 when you're dealing with contaminated materials.  
10 And, that's where we tend to-- and we have ways to  
11 manage that, reduce it and so we're not causing  
12 impacts.

12

13 And, I think that's it. There's my  
14 contact information. Again, Corps of Engineers is  
15 a extremely large organization. We have experts  
16 in just about anything so that if I can't answer  
17 it, I've got about 30,000 people who can.

17

18 CHAIRPERSON NELSON: Well, that 101  
19 was really, I think fascinating. I think many  
20 people in this audience probably know a lot about  
21 that already. But, it was so interesting. I have  
22 to tell you. It really was. I think Council  
23 Member Brewer has a question.

23

24 COUNCIL MEMBER BREWER: You want to  
25 lead questions?

25

CHAIRPERSON NELSON: No, we'll go

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

right to you. It's okay.

COUNCIL MEMBER BREWER: Thank you very much. The couple questions I have, I know Jerry Nadler [phonetic] may not be your favorite. I just e-mailed him. What should I ask? But, anyway. When you have the challenge of trying to be a very competitive port, what kind of-- obviously, that would be post-Panama Canal, that you have to be ready for-- what's your goal in all of this? In other words, what would Jerry Nadler say that you had to do between now and the opening of the Panama Canal? What's kind of-- where do we need to be at that point in terms of dredging?

TOM SHEA: Well, from the Corps' perspective, we have the 50-foot project that's being deepened. We're on a schedule. As long as Congress funds us, we're going to meet that schedule. The goal is to have a channel to 50 feet that gets into the South Elizabeth Channel. And, that's the Port Authority's goal.

COUNCIL MEMBER BREWER: And, that will make us competitive with other ports, strongly, 'cause that's what I think what our goal is is that New Yorkers and New Jersey?

1

TOM SHEA: Yes.

2

COUNCIL MEMBER BREWER: Okay.

3

TOM SHEA: Although from the Corps' perspective, we don't look at being competitive.

4

5

COUNCIL MEMBER BREWER: I know, but we do.

6

7

TOM SHEA: I know. And so, we're helping you do that.

8

9

COUNCIL MEMBER BREWER: Thank you.

10

VENETIA LANNON: Yeah, I think, and

11

we, at EDC, we engage in these conversations with

12

the Army Corps and the Port Authority and with

13

Congressman Nadler's office on a frequent basis.

14

It's foremost in our minds that our Port, which

15

provides so much, as many of the panelists said,

16

so much economic--

17

COUNCIL MEMBER BREWER: Yeah.

18

VENETIA LANNON: -- activity, jobs,

19

tax benefits to this region that it remain

20

competitive. Our main concern, when the Panama

21

Canal widens, one of our big competitors is

22

Norfolk, Virginia. And, they have naturally deep

23

water at their port. They don't have a lot of

24

these dredging-- they have some dredging concerns,

25

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

but not on the scale that we do.

And, I think one of the other really important things that isn't a topic of this conversation is just to have enough land. I mean, you can't expand Port Newark or Port Elizabeth, you know. We're looking right now to expand the New York Container Terminal at Hallan Hook. But, there's a delicate balance between, you know, when you're on the water, there are going to be wetlands. And, it's a conversation with DEC.

And, I'm sure we'll be coming back to have it with you, sort of the need to get more land and to also what's called densify throughput, meaning that you can move lots of containers on a small amount of land. So, you know, these kinds of things, densification, better efficiency, better labor practices, you know, more competitive labor force is something that comes up. These are all things as well as dredging that we can do to keep our Port competitive.

And then, you know, on top of that, we have to be competitive environmentally. The Port of LA and Long Beach are taking many initiatives to really put an additional charge on

1  
2 some of these goods that are coming through that  
3 benefit these big box stores, but have lots of  
4 local impact, especially on the environmental  
5 justice front with people suffering from asthma  
6 around the Port, especially in New Jersey. So,  
7 you have to also be competitive on the  
8 environmental front. But, as Congressman Nadler  
9 said, that's something perhaps the federal  
10 government should be addressing so that we're not  
11 competing with each other on that front. And,  
12 that's just something that everybody base-line has  
13 to take care of.

14 COUNCIL MEMBER BREWER: Thank you  
15 for that comprehensive answer. The other question  
16 I have is I know that you talked about the 50%  
17 that is clean; that some of it is contaminated. I  
18 guess my question is are there ways that are new  
19 due to new technology that can address some of  
20 this fill? In other words, obviously, you talked  
21 about what you can do with the brownfields,  
22 etcetera and the coal mines and so on. But, is  
23 that taking care of the problem? In other words,  
24 I'm trying to say is there something new that can  
25 be done 'cause you can't dump where you have in

1

2 the past in many cases? So, between the--

3

4

5

KATHRYN McGUCKIN: Not that there aren't new technologies, there are new technologies.

6

COUNCIL MEMBER BREWER: Okay.

7

8

KATHRYN McGUCKIN: However, they're very expensive--

9

COUNCIL MEMBER BREWER: Okay.

10

11

12

13

14

KATHRYN McGUCKIN: -- as both Toms could attest to. There has been a lot of research on how to actually decontaminate these materials and make them garden soil that you would purchase at Home Depot.

15

COUNCIL MEMBER BREWER: Yeah.

16

17

18

19

20

21

22

KATHRYN McGUCKIN: And, that can be done. But, it's very expensive. So, how do you do that and still remain economically viable? The sediments that are the easiest to beneficial reuse, as I was mentioning, are those that are contaminated, because it's, I mean lead occurs everywhere.

23

24

COUNCIL MEMBER BREWER: It's going to be contaminated.

25

KATHRYN McGUCKIN: It's going to be

1  
2 in your backyard. It's going to be everywhere.  
3 It's something that occurs in nature. But,  
4 they're not anywhere near hazardous. They're not  
5 any type of hazardous type of material. Okay,  
6 great. We can beneficial reuse those. We mix  
7 them with cement because they're very fine silt  
8 and they have no structural stability. So, we mix  
9 them with cement, which bulks them up. It makes  
10 them look like regular soil, just as Tom  
11 mentioned.

12 But, there's an ancillary benefit  
13 to that. When you add the cement, not only does  
14 it bulk it up, but it locks in those contaminants  
15 so that when we run an acid leach test that's  
16 required by the State of New York, the water that  
17 comes out the other end is clean. That lead that  
18 was in there, that mercury that was in there,  
19 those things that were in there, they're all  
20 locked up in that little cement matrix. And, the  
21 water that comes out is clean. So, it's not that  
22 they're gone. They're still there.

23 COUNCIL MEMBER BREWER: Um, hm.

24 KATHRYN MCGUCKIN: But, they're  
25 locked in that matrix. But, that makes a good use

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

for putting below a parking lot, like the Jersey Garden Malls, using it as road embankment fill, using it to close landfills, using it to close brownfields. Those are perfect uses for those type of material because there's not going to be a human exposure pathway there. And, there's not going to be a ground water exposure pathway, 'cause we locked up all those contaminants with that cement. So, it's perfectly reusable.

It's that stuff that's not hazardous material, but not really clean enough to do that, that's going to present the challenges for us. Those are the types of material that we have used in closing landfills and stuff. But, the landfill opportunities are going away.

COUNCIL MEMBER BREWER: Correct.

KATHRYN MCGUCKIN: You know, they're all closed or really close to being closed, you know. The below the liner material that is the only stuff that can be accepted, the dirtier stuff. Those opportunities are going away. So, our challenge for the future is where is the next opportunity to use material that is not hazardous, but not really clean enough to use

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

in most of our redevelopment projects and, to do that and still be economically viable. There are things out there, but they're very expensive.

COUNCIL MEMBER BREWER: I got it. Now, is there dredging going on in European cities? And, are they doing anything with that material that you just discussed?

TOM WAKEMAN: This has been going on worldwide, probably 30 years.

COUNCIL MEMBER BREWER: Right.

TOM WAKEMAN: The last 15--

COUNCIL MEMBER BREWER: I've been on dredges, actually.

TOM WAKEMAN: -- we started looking at ways to decontaminate and beneficially use sediments that were contaminated. The construction of making bricks, Homburg--

COUNCIL MEMBER BREWER: Right, yeah.

TOM WAKEMAN: -- they still have the pile of bricks. Nobody wants them.

COUNCIL MEMBER BREWER: Got it.

TOM WAKEMAN: If it's contaminated, I don't want that in my house.

1  
2 COUNCIL MEMBER BREWER: It's like  
3 the cell phone towers. I got it.

4 TOM WAKEMAN: Well, the perception  
5 stops people. In terms of looking at aggregate,  
6 engineered fill, variety of other potential  
7 beneficial uses including the creation of tiles by  
8 vitrification of this material was done by  
9 Brookhaven National Laboratories--

10 COUNCIL MEMBER BREWER: Um, hm.

11 TOM WAKEMAN: -- with the EPA and  
12 the Corps of Engineers, the Port Authority and  
13 others, the two states, spending about 25 million  
14 and the bottom line was we put most of our effort  
15 into turning this material into a structural fill,  
16 which is probably the best use for it. It's where  
17 we have the greatest demand. It keeps the price  
18 down. And, the public is protected. There are  
19 loss of those opportunities as we quickly use up  
20 the available space. The Governors made a  
21 decision, both of them, in '96, when we sent the  
22 material from Hallan Hook to East Carbon, Utah by  
23 a combination of the scow and railroad at \$118 a  
24 yard, that we're not going to send our money to  
25 Utah anymore.

1

COUNCIL MEMBER BREWER: Um, hm.

2

3

TOM WAKEMAN: We're going to keep

4

it here and we're going to make it beneficial uses

5

for us here. The problem that we're going to face

6

is two things; your first question, how do we stay

7

competitive. To me, not an issue. It's how do we

8

get the goods. Estimates are that we'll go double

9

the number of goods that we need in this region

10

between 2007 and 2027.

11

COUNCIL MEMBER BREWER: Wow.

12

TOM WAKEMAN: Now, how to get

13

double that amount of cargo in here to meet the

14

region's needs, demands, because the population

15

increased, because of affluence--

16

COUNCIL MEMBER BREWER: Um, hm.

17

TOM WAKEMAN: -- because of all the

18

other good things that are happening. You do that

19

by having a logistics chain that is served end to

20

end to make sure you can bring the goods in and

21

put it on the shelf on the far end of Long Island.

22

How do you do that? By having the transportation

23

connections to do that.

24

COUNCIL MEMBER BREWER: Absolutely.

25

TOM WAKEMAN: The most economical,

1  
2 energy efficient and least carbon emitting is to  
3 bring it in here by sea--

4 COUNCIL MEMBER BREWER: Yeah.

5 TOM WAKEMAN: -- and then, put it  
6 on land with inner mobile connections. I think  
7 Mr. Nadler would be the first to say I want to  
8 make sure that the residents of New York are able  
9 to get the goods they want in the most efficient  
10 fashion possible.

11 In talking with Mr. Godheim about  
12 this, he wants to continue discussions and look at  
13 what are the options that we can get into the T  
14 bill, to further that function, that objective of  
15 not only having a commercially viable Port, but  
16 making sure we meet the demands.

17 COUNCIL MEMBER BREWER: Thank you  
18 very much. I won't take more time. But, for EDC,  
19 my 79th Street Boat Basin, is anybody thinking  
20 about my 79th Street Boat Basin? What do you--you  
21 say yes. What does that mean, translated? It's  
22 high dry.

23 VENETIA LANNON: Right.

24 COUNCIL MEMBER BREWER: High and  
25 dry.

1  
2 VENETIA LANNON: We were just using  
3 it as a case study the other day for when dredging  
4 becomes so cost prohibitive that really boats are  
5 just perched on, when at low tide, just perched  
6 right on the ground.

7 COUNCIL MEMBER BREWER: So, how do  
8 we get it dredged?

9 VENETIA LANNON: Well, as Katie  
10 started to mention, EDC has just-- we've gotten,  
11 just started this program called the Dredge  
12 Material Management Program. And, it's sort of a  
13 mini business within EDC, if you will. So, for  
14 some of these cleaner materials that are coming  
15 out of the federal projects, we will be sort of  
16 getting the beneficial use determination from EDC  
17 and managing the placement. So, rather than  
18 paying to dump, the dredger pays us to place. We  
19 will, therefore, generate a source of revenue to  
20 be able to either-- we didn't get too much into  
21 our testimony, but we--

22 KATHRYN MCGUCKIN: But, she has--

23 VENETIA LANNON: Yeah.

24 KATHRYN MCGUCKIN: -- our handout.

25 VENETIA LANNON: Yeah, either it's

1

2

a revolving loan fund or it's a grant--

3

COUNCIL MEMBER BREWER: Okay.

4

VENETIA LANNON: -- that we will go

5

to be able to aid places like low basins, like

6

small maritime businesses on the Gowanus Canal.

7

COUNCIL MEMBER BREWER: Okay. So,

8

79th Street could be the first test case? Thank

9

you very much.

10

KATHRYN MCGUCKIN: We did do a test

11

and it worked out really well. And, the idea is

12

that we want to be able to beneficial reuse and we

13

want that-- we want to be able to put aside money

14

for small and intermediate-sized businesses--

15

COUNCIL MEMBER BREWER: Right.

16

KATHRYN MCGUCKIN: -- to help them

17

with Dredge Material Management.

18

COUNCIL MEMBER BREWER: Okay.

19

KATHRYN MCGUCKIN: That's the real

20

benefit to having EDC do this. We're not-for-

21

profit. We're not doing this to make money. So,

22

the idea is we're setting aside money specifically

23

to help these smaller businesses.

24

COUNCIL MEMBER BREWER: Perfect.

25

Unfortunately, this business is the Parks

1

2

Department. But, let's work on it.

3

4

KATHRYN MCGUCKIN: We're working with Parks, too.

5

6

7

COUNCIL MEMBER BREWER: Good. All right. Thank you very much, Mr. Chair. I could go on and on, but thank you.

8

9

CHAIRPERSON NELSON: Thank you [pause]

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

COUNCIL MEMBER MARK-VIVERITO:  
Thank you, Mr. Chair. And, somehow it feels like, you know, we're cramming for a test, like so much information that's being given. And, it's, at least for me, it's a relatively new topic. So, it's fascinating. But, just quick questions, 'cause you kept bringing up the issue of the classification of the material, that in New York State it's classified as solid waste. So, and in other cities, I'm sorry, in other states, it's not, correct? Now, is it to infer that in maybe changing the classification of the material that it would be more cost effective? Or, it would be, you know, in terms of the--

KATHRYN MCGUCKIN: [Crosstalk] cost effective because you have more opportunities for

1  
2 beneficial reuse. And, the best example I can  
3 give is the State of New Jersey.

4 COUNCIL MEMBER MARK-VIVERITO:

5 Right.

6 KATHRYN McGUCKIN: They, too, had  
7 this classified as a solid waste. But, in 2002,  
8 they declassified it and it is a regulated  
9 material, just like any other material that would  
10 be fill material at a redevelopment site. And,  
11 that's all we're looking for.

12 COUNCIL MEMBER MARK-VIVERITO:

13 Right.

14 KATHRYN McGUCKIN: We're not  
15 looking to have no regulation.

16 COUNCIL MEMBER MARK-VIVERITO:

17 Right.

18 KATHRYN McGUCKIN: It's the stigma  
19 attached to, this is a solid waste.

20 COUNCIL MEMBER MARK-VIVERITO:

21 Correct.

22 KATHRYN McGUCKIN: Even though I  
23 could demonstrate to everybody in a room that this  
24 material is just as clean, if not cleaner, than  
25 this stuff that's coming from over here. 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  
25

stuff doesn't have the title solid waste, though.

COUNCIL MEMBER MARK-VIVERITO:

Where does the classification come from? Is that at a state level?

KATHRYN MCGUCKIN: Regulatory classification.

COUNCIL MEMBER MARK-VIVERITO:

Right, but, who--

VENETIA LANNON: DEC.

KATHRYN MCGUCKIN: From DEC

[crosstalk]

COUNCIL MEMBER MARK-VIVERITO: And,

it's the state, the state. Now, has there been any efforts to change the classification to get support...

KATHRYN MCGUCKIN: I do understand that years ago, and maybe Tom would remember this, I want to say it was probably about 12 years ago or so, there was an effort. And, I'm not quite sure why it fell apart. All I know is that it did. And, they do have-- they recently rewrote their Park 360 [phonetic], which are their solid waste regulations. And, in that rewrite, they did not declassify it. But, they did give it some

1

2

more automatic beneficial reuses than it has right now. But, they did not declassify it. But, those were never actually passed and put into..

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

COUNCIL MEMBER MARK-VIVERITO: Now, but in the plan or the thinking that you're taking on, you know, has there been any thought given to doing some sort of an analysis as to what the savings would be if the classification would change. What would be the, you know, what would be beneficial in changing the classification and how that would maybe get you to a better place in terms of the work that needs to get done? I don't know that level of--

KATHRYN McGUCKIN: [Interposing] I don't have anything written down. But--

COUNCIL MEMBER MARK-VIVERITO:

Right.

KATHRYN McGUCKIN: -- - - if I sat down, Sandy Grizzlick [phonetic] can hand me a whole bunch of stuff.

VENETIA LANNON: It is something that we're thinking about--

COUNCIL MEMBER MARK-VIVERITO:

Okay.

1  
2 VENETIA LANNON: -- in terms of  
3 not, you know, not our legislative agenda this  
4 year, but in, you know, I think that's a very good  
5 point to put it in the context of, you know, cost  
6 benefit. But, generally, the DEC is less  
7 sensitive to cost benefit. And, they are very  
8 conservative when it comes to reevaluating  
9 regulations because of, you know, potential  
10 precedents that they're unaware of. And,  
11 generally, especially with regards to their solid  
12 waste regulations, it's a very lengthy process to  
13 get anything changed. But, I think, you know, I  
14 do think that with a concerted, you know,  
15 evaluation that demonstrates the benefits and with  
16 the coalition of people, you know, putting, you  
17 know, making that request, I think it is something  
18 we could overcome collectively.

19 COUNCIL MEMBER MARK-VIVERITO:

20 Right. Okay. And then, the other question was I  
21 just saw one slide here and it was presented up  
22 here before. But, with the beneficial reuse of  
23 dredge material when it comes to brownfield  
24 remediation. Now, how exactly, 'cause I kind of  
25 picked up on your presentation something about

1

2 just like maybe slapping material on top of a  
3 brownfield and then, it's, you know-- I mean, how  
4 does that contribute to brownfield remediation,  
5 dredge material? I guess I want to just  
6 understand that for myself.

7

TOM SHEA: Usually in a brownfield  
8 or landfill, whatever, there's [pause] to  
9 redevelop it, they want to bring it up to a  
10 certain grade.

11

COUNCIL MEMBER MARK-VIVERITO:

12

Right.

13

TOM SHEA: So, first off, the  
14 material that's going to go from the dredge will  
15 never been dirtier, as it [crosstalk]--

16

COUNCIL MEMBER MARK-VIVERITO:

17

Right, than what the brownfield is.

18

TOM SHEA: -- more contaminated  
19 that what's going there. And, dredge material is  
20 almost always a lot cleaner than half the material  
21 you have in your backyard. We call it  
22 contaminated because it usually doesn't meet the  
23 standard for the ocean disposal, where it's at the  
24 very root of the food chain and then, when you get  
25 into the bioaccumulation and the effects there.

1  
2 So, that's why the standards are so tight. All  
3 right.

4 What happens is to get it there, if  
5 it meets all the requirements, the mechanics of  
6 it, is the scow will bring the material to some  
7 processing site. The material is mixed with some  
8 binding agent and whatever, dewatered, and then,  
9 it's treated just like dirt. All right.

10 COUNCIL MEMBER MARK-VIVERITO:

11 Right. I guess my question, and it's not  
12 questioning the hazardous aspect of the dredge  
13 material. I guess my question is if it's just  
14 grabbing that material and throwing it on top of a  
15 brownfield and not actually remediating the  
16 brownfield itself. That's my question.

17 KATHRYN MCGUCKIN: [Crosstalk]

18 Well, it depends on what your remediation plan is.  
19 Every site's going to have its own plan, either  
20 dictated by federal or state government, depending  
21 on what--

22 COUNCIL MEMBER MARK-VIVERITO:

23 Right.

24 KATHRYN MCGUCKIN: -- type of a  
25 brownfield it is. The idea is, in many cases,

1  
2 they do require, and I'm going to give an example  
3 of the Old Gatech [phonetic] site in Staten Island  
4 because that's one I'm familiar with. When DEC go  
5 to a remediation plan for that, they were required  
6 to bio-remediate the material that was  
7 contaminated with petroleum. And, they had to  
8 remove it and bio-remediate it. And, that got it  
9 clean to a certain level that was acceptable.  
10 But, it still wasn't great.

11 COUNCIL MEMBER MARK-VIVERITO:

12 Right.

13 KATHRYN MCGUCKIN: So, they want it  
14 capped.

15 COUNCIL MEMBER MARK-VIVERITO:

16 [Interposing] And, that's what the material--

17 KATHRYN MCGUCKIN: [Crosstalk]  
18 capped with cleaner material.

19 COUNCIL MEMBER MARK-VIVERITO:

20 Okay.

21 KATHRYN MCGUCKIN: Now, the whole  
22 benefit to the Dredge Material Management Program  
23 by EDC is that for a City redevelopment project,  
24 whether that site's a brownfield like a Gatech  
25 site or just a standard redevelopment site, it's

1  
2 going to cost you in today's dollars about \$60 a  
3 cubic yard/ton for every ton of material that you  
4 have to bring to that site to bring it to the FEMA  
5 flood plain or to cap, you know, your remediation  
6 site. And, that ends up being a lot of money.  
7 Fifteen thousand cubic yards, which is a very  
8 small project, \$900,000 just to get the fill to  
9 make that project happen. Instead of paying  
10 \$900,000, we were paid \$68,000 to accept dredge  
11 material as that fill. That dredge material had  
12 to meet the same chemical specifications of the  
13 material that we would have had to purchase. But,  
14 we didn't have to purchase it. So, we saved  
15 \$900,000. We made 68,000, which we had to pay--  
16 we had to pay out money to get it sampled and  
17 tested and all that. But, still, there still was  
18 \$10,300 to put into the environmental, you know,  
19 fund, to the Dredge Material Management Fund, when  
20 we were all done.

21 So, it's fill that these  
22 brownfields will have to have. But, one of the  
23 reasons brownfields go undone, unremediated, is  
24 the expense. And, using dredge material as that  
25 fill helps to cut down on that expense. And,

1  
2 that's the advantage to using it as a brownfield  
3 closer, as to using regular fill.

4 The other is the environmental  
5 benefit of not taking pristine materials from  
6 upstate New York or Canada or Virginia, wherever  
7 it's coming from, and ruining some other  
8 environment so that we can have the fill that we  
9 need for our sites here.

10 COUNCIL MEMBER MARK-VIVERITO:

11 Okay. Well, those were my two questions for now,  
12 Mr. Chair. Thanks.

13 CHAIRPERSON NELSON: Thank you,  
14 Council Member. Thank you panel. My apologies to  
15 Professor Tony DeLernia. I guess he had to go  
16 back to Kingsborough Community College. He's has  
17 that program out there as well. And, I feel  
18 terrible about that. If you're watching on  
19 Crosswalks, Tony, about one o'clock in the  
20 morning, I apologize. I'm sorry.

21 I'm going to get, for a second,  
22 also, a little parochial. Sheepshead Bay, which  
23 is a tremendous area for great resource the City  
24 has. I know there's something like a cost return  
25 ratio, of course, to the Army Corps. But, it's

1  
2 also the economics of Sheepshead Bay, money plays  
3 a role in there as well, besides the recreational  
4 and educational, because the students at  
5 Kingsborough Community College utilize this  
6 facility. So, hopefully, we'll be discussing this  
7 a little bit more as the days or weeks go on. I  
8 know you're very stretched. What is it,  
9 approximately a \$60 billion budget the Army Corps  
10 has nationally?

11 TOM SHEA: About, yeah, I don't  
12 think - - the numbers that they use. It's large.

13 CHAIRPERSON NELSON: It was very  
14 large and yet, of course, if we have 578 miles,  
15 you know, of oceanfront property, if you will, or  
16 beach or river and all that kind of stuff,  
17 waterfront, I can't imagine what the Army Corps  
18 has to deal with and you have to take it, of  
19 course, and a lot of times it's political clout,  
20 where it may go. But, of course, it has to be  
21 based upon, you know, factual information as well.  
22 So, I'm hoping we can get to New York City areas  
23 really quickly.

24 I know, even like Seagate and Coney  
25 Island was renourished, for instance, about 13, 14

1  
2 years ago. Money has been put in I believe by the  
3 aforementioned Congressman Jerry Nadler to  
4 renourish again. But, that's another issue, as a  
5 matter of fact, soon playing at a theater near  
6 you. We are going to have a hearing on that as  
7 well. But, we are based now, of course, on the  
8 dredging issue situation. And, please, I'd like  
9 to follow up with the Sheepshead Bay item as well.  
10 And, again, the Chair of Community Board 15 is  
11 here, Theresa Scavo, as well. And, that's why  
12 Tony DeLernia was here.

13           Would you describe the process for  
14 obtaining a permit for a dredging operation, as  
15 far as government, non-governmental entities as  
16 well?

17           TOM SHEA: Sure. Basically, say  
18 it's a, you know, a marina wants to dredge. They  
19 will typically hire a copy and engineering firm to  
20 help do the design work and cost estimates, things  
21 like that and do the material testing. They will  
22 gather a bunch of information. They will come to  
23 the Corps of Engineers in a pre-application  
24 meeting, where we meet with the local, state and  
25 probably, in New York City, DEP also. So, all the

1  
2 regulatory agencies are at the table at the single  
3 time to meet with the applicant and go over the  
4 concerns they may have. Then, the applicant  
5 typically goes back, does some additional work and  
6 then, submits their permit. Corps of Engineers  
7 will then typically issue a public notice saying  
8 that there's a permit application; provide all the  
9 information.

10 And then, after a certain amount of  
11 time, they'll close. They'll consider anything  
12 that they heard and decide whether the permit  
13 should be issued or additional environmental  
14 analysis done, for instance an environmental  
15 impact statement or environmental assessment. At  
16 the same time, the Corps will also wait for all  
17 the other permits to come in. And then, once  
18 everything's in, it typically issues a permit for  
19 the work.

20 CHAIRPERSON NELSON: Are there any  
21 funds or grants available from either the feds or  
22 state or-- I won't even say city. I see, you  
23 know, the shaking of the head to the negative-- to  
24 offset the cost of dredging?

25 TOM SHEA: Not from the Corps of

1  
2 Engineers. There may be some from Department of  
3 Transportation or, you know, because it's a ferry  
4 terminal, there may be money that way or  
5 something. I honestly don't know.

6 CHAIRPERSON NELSON: Certainly not  
7 to any non-governmental entities then. Okay. And  
8 any measures that could be taken that could  
9 prevent or retard the sedimentation in critical  
10 areas of New York City Harbor? Or, is it just the  
11 periodic dredging? Is that the only long term  
12 solution?

13 TOM SHEA: I guess there's a lot of  
14 different land-- 'cause all the sediment, you  
15 know, starts from the land, then through the rain  
16 cycle, washes through. It erodes the rivers and  
17 all. So, a lot of it's coming from upstate, not  
18 necessarily New York City. Although there is--  
19 or, it's just the movement of the way the tides or  
20 the currents run that will move sand around.

21 CHAIRPERSON NELSON: Um, hm.

22 TOM SHEA: I don't know of any  
23 specific measures we take. However, in New  
24 Jersey, one of the driving forces of the Corps'  
25 participation in the Lower Passaic River, is to

1

2 help dredge that river, which the whole 17 miles  
3 is a designated superfund site, because that  
4 material makes its way down to Newark Bay and into  
5 our channels. So, by cleaning it up there,  
6 through superfund and other and then, the Corps  
7 has some other authorities, we capture the  
8 material at its source, stop it there. So, that  
9 as sedimentation will continue, it should be  
10 cleaner and ultimately reducing the cost.

11

12

13

CHAIRPERSON NELSON: - - like a  
screen type of a vehicle, device to stop the  
sediment?

14

TOM SHEA: No.

15

16

CHAIRPERSON NELSON: How is that  
done?

17

18

TOM SHEA: Well, Lower Passaic,  
there'll be dredging done.

19

20

21

VENETIA LANNON: I think they're  
just saying that they are cleaning it up upstream  
from--

22

TOM SHEA: Yeah.

23

24

25

VENETIA LANNON: -- from New York  
City so that the sediment, when it does - - come  
isn't contaminated when it gets here. So, it'd be

1

2

then cheaper for us when we need to - - waters not  
so--

3

4

TOM SHEA: But, then--

5

VENETIA LANNON: [Crosstalk]

6

7

TOM SHEA: Right. And then, there  
are measures--

8

VENETIA LANNON: [Crosstalk]

9

sedimentation, I guess - -

10

CHAIRPERSON NELSON: No, no.

11

12

TOM SHEA: Right. But then, as I'm  
saying, there are measures. For instance, New  
York City has a large number of combined sewer  
outflows. All right. Basically, shutting those  
down so that anything that should go into a sewer  
and into a waste treatment is sent there to get  
cleaned before it goes into any of the water. On  
a huge storm, you know, there's a lot of chemicals  
that are washed off from the streets or dumped  
down the drain, 'cause, you know, Drano or  
whatever--

13

14

15

16

17

18

19

20

21

22

CHAIRPERSON NELSON: Um, hm.

23

24

25

TOM SHEA: -- there's a huge number  
of sources all over the City that eventually makes  
its way into the water system, the sewer system

1  
2 and then, through combines overflows, U-drain  
3 storms gets dumped into Gowanus, for instance. If  
4 you shut that off, you'd somehow prevent-- I mean  
5 the storm water still needs to make its way in.  
6 But, being able to separate the storm water from  
7 stuff that needs to be treated would go a long way  
8 into reducing the contaminate load and placing new  
9 loads there.

10 CHAIRPERSON NELSON: Um, hm.

11 TOM WAKEMAN: The textbook answer  
12 to your question, separate from the chemical  
13 contamination, which Tom has addressed--

14 CHAIRPERSON NELSON: Can you all  
15 hear that?

16 TOM WAKEMAN: -- is that there's  
17 three ways that you basically stop sedimentation  
18 from being a dredging problem. One is to do  
19 erosion control, as Tom mentioned, from the upper  
20 drainage basin. Second is some kind of deposition  
21 basin. I mean, you dig a pit or you build a dam.  
22 You build a dam, you stop all the sediment coming  
23 down streams, except what comes over the wier  
24 which causes erosion generally downstream. Or,  
25 you can increase the velocity of the water to keep

1

2 the material in suspension, so that it goes past  
3 the project area. And, there's been some attempts  
4 to do that by building wiers or [pause] had one  
5 wier in [pause] near the Arthur Kill filled up  
6 after about 12 years, 15 years.

7

8 So, those three methods are used.  
9 Probably the best approach for this region, given  
10 the cost of doing business, is to do erosion  
11 control upstream in the drainage basin. Make sure  
12 the construction sites are carefully monitored.  
13 Make sure that the contractor that's responsible  
14 for keeping sediments from going down the waste  
15 water or the storm drain because it'll end up in  
16 the Hudson and then, ultimately, it'll end up in  
17 the Passenger Ship Terminal.

18

19 One of the things that you face in  
20 this region is we are still developing our  
21 understanding of the hydrodynamics of sediment  
22 transport characteristics of this Harbor.

23

24 Although it is 300 years old, there hasn't been a  
25 lot of studying here. There's been an enormous  
amount of studying in about the last ten years.

26

27 But, prior to that, there were no books. So,  
28 we're still learning.

1  
2 One of the things that I find very  
3 gratifying is that you're having this hearing.  
4 Nobody paid attention for a very long time with  
5 what a fabulous resource you have here. The other  
6 thing is what EDC's doing; finally, looking  
7 strategically at combining the cost and the  
8 benefits and looking at this pragmatically and  
9 saying what are our best opportunities here. I'm  
10 delighted to hear that somebody's actually making  
11 money on dredge material, 'cause that was one of  
12 our dreams was to actually get rid of the stuff,  
13 see it as a resource that has some commercial  
14 value instead of seen as a waste that we're going  
15 to pay for.

16 One of the problems with, and the  
17 reason that the state didn't continue was they ran  
18 out of funding. So, they ran out of the ability  
19 to maintain staff on the project. However, if you  
20 treat it as a waste to the State of New York, you  
21 have difficulty sending it to Pennsylvania or any  
22 other place because they're saying, we're taking  
23 New York's waste. They will pay for that. Utah  
24 said that. Utah got a lot of money.

25 KATHRYN MCGUCKIN: To speak to your

1  
2 sedimentation issue, though, and I want to bring  
3 this to your Sheepshead Bay project, there's a  
4 more global sense of dealing with sedimentation,  
5 as was already mentioned. But, in an area like  
6 Sheapheads Bay or anything like that, where you  
7 have several marinas that are all co-located, the  
8 key there is to work together. None of them want  
9 to do that. But, that's the key. And, the reason  
10 is if Joe, Tom and Sally all have marinas and Joe  
11 dredges his, but Tom and Sally don't, guess what  
12 happens to Joe's. His fills up with the sediments  
13 from Tom and Sally's. Okay.

14           So, if they don't work together,  
15 it's a huge battle. And, they also, by working  
16 together, they get the economies of scale that are  
17 awarded to larger projects, because Joe only has  
18 to dredge 20,000 and Sally has to dredge 20,000.  
19 But, if you put them all together, now maybe you  
20 have 100,000 or a 200,000 cubic area project.  
21 And, you're sharing that mobilization and  
22 demobilization cost and you're sharing those  
23 testing costs. So, you're actually bringing down  
24 your per cubic area price if you work together.

25           CHAIRPERSON NELSON: The synergy is

1

2 there. I heard that happened at Kingsborough  
3 Community College. That was the problem. So,  
4 word to the wise. We've got to move forward with  
5 this as a team effort, without a doubt.

6 KATHRYN MCGUCKIN: Correct.

7 CHAIRPERSON NELSON: I know. We  
8 have some other people who want to also to  
9 testify. But, just one last question from me.  
10 How long does it take for a typical dredging  
11 project? And, I know, of course, it would based  
12 upon size and so on. But, let's say, from the  
13 smallest to the largest, sort of, if we can.

14 KATHRYN MCGUCKIN: - - take the  
15 largest.

16 TOM WAKEMAN: Federal projects,  
17 first have to come through a congressional  
18 request.

19 CHAIRPERSON NELSON: I'm sorry.

20 TOM WAKEMAN: If you're going to do  
21 a federal project, a large dredging project, a  
22 national dredging project, it has to come through  
23 a congressional request.

24 CHAIRPERSON NELSON: Sure.

25 TOM WAKEMAN: Then, you do the, the

1  
2 Corps does a recognizance. If it's found that  
3 it's in the national interest, then they go on.  
4 That process can take on the order of ten years  
5 and then, another 15 years to do the project, the  
6 construction. That's a large project, 100 million  
7 plus. And, that's been the average time. At  
8 least it was until Tom Shea did his feasibility  
9 study in two years.

10 For smaller projects, the hang up  
11 will be whether or not you can get both your local  
12 and your federal permit. And, that can take  
13 anywhere from two to five years. The LA Basin,  
14 they're not able to get their permits. They've  
15 been waiting the last seven years for permits on  
16 13 different projects. That's why they're not  
17 expanding. For a small marina, unless you have a  
18 disposal site, the state will not issue you a  
19 permit because the Congress gave them the  
20 authority for Clean Water Act certifications.  
21 And, unless you can-- remember we talked about you  
22 dredge it and you transport and you dispose of it?  
23 Well, if you can't dispose of it, you're not going  
24 to dredge it. And so, until you're able to  
25 generate that disposal site, you're not able to

1  
2 get your dredging permit. And, that's the nexus  
3 between these two parts, as has been very clearly  
4 stated to you by EDC, if you can't find a disposal  
5 site, New York will not dredge because New York  
6 EDC will got to DEC and DEC will say no.

7 CHAIRPERSON NELSON: I believe  
8 Council Member Brewer has a question related to  
9 that.

10 COUNCIL MEMBER BREWER: Well, thank  
11 you, because I guess that was what I was trying to  
12 say earlier is that how much of our dredging is  
13 curtailed because we don't have a place to put  
14 what you just described, where DEC and Pete  
15 Grannis [phonetic] will not allow it. In other  
16 words, is that an impediment to, as you suggested,  
17 sir, expanding to deal with our population?

18 KATHRYN MCGUCKIN: It is an  
19 impediment, yes.

20 COUNCIL MEMBER BREWER: I mean--

21 KATHRYN MCGUCKIN: The fact that  
22 the permitting process, especially in the last  
23 couple years, is just being extrapolated to years  
24 instead of six months is something that we're all  
25 having to deal with. But, you know, a dredging

1  
2 project can be simple. Small project like South  
3 Brooklyn Marine Terminal, we dredged 50,000 cubic  
4 yards; 45 days, it was all dredged and put upland.  
5 Perfect, no problem. The whole key is getting a  
6 program like this beneficial reuse program, that  
7 EDC has started out there and advertised so people  
8 know that there are ways to reuse it. Okay. So,  
9 that somebody who has a project that he needs fill  
10 for, he comes to EDC. I need some fill. Do you  
11 have some that meet my needs? And so, that we  
12 actually develop more sites.

13 COUNCIL MEMBER BREWER: That makes  
14 sense. So, that's what EDC is doing now--

15 KATHRYN MCGUCKIN: That's what--

16 COUNCIL MEMBER BREWER: -- correct?

17 KATHRYN MCGUCKIN: -- we're working  
18 on now.

19 COUNCIL MEMBER BREWER: Okay.

20 KATHRYN MCGUCKIN: But, it will--

21 COUNCIL MEMBER BREWER: That's  
22 exciting.

23 KATHRYN MCGUCKIN: -- take time to  
24 do that. And then, there is, like I said, there's  
25 a certain type of material that our project isn't

1  
2 meant to address. And, mine reclamation is  
3 something that is really excellent. But, we don't  
4 want to take it to the Pennsylvania mines, (a)  
5 because that's Pennsylvania, and (b) it's too far  
6 away. It costs a lot of money. But, you know  
7 what, we have quarries and mines right here in New  
8 York. Shouldn't we be looking at maybe we can  
9 reclaim some of our own quarries and mines with  
10 our dredge material? So, these are the long term  
11 issues that we want to look at that takes, like I  
12 said, the coordination of federal, city, state  
13 agencies to look at together.

14 COUNCIL MEMBER BREWER: So, what  
15 you're doing is then, you're working with state  
16 agencies, too, to try to come up with some  
17 solutions.

18 KATHRYN MCGUCKIN: We try real  
19 hard, but they come kicking and screaming. Can I  
20 say that?

21 VENETIA LANNON: Yeah, I think, you  
22 know, step one is to change the classification so  
23 it's not a solid waste. And, that's going to take  
24 time. And then, over that time, I think it's the  
25 same thing, and Council Member Brewer, you were

1

2 active in the Solid Waste Management Plan, you  
3 know, for the notion--

4

COUNCIL MEMBER BREWER: Not always  
5 on the right side, according to you, but, yes.

6

7 VENETIA LANNON: We got there in  
8 the end. And, I mean, that is the point that I  
9 think that when you're looking at exporting New  
10 York City's materials to places outside of the  
11 City, I mean, first of all, it would help if it  
12 wasn't being called a waste, which it's not. But,  
13 second of all, you know, we want to look first at  
14 places in-state, you know, to places like mines  
15 and quarries. But, again, you can just imagine  
16 the difficulty when we say to Westchester, oh, we  
17 want you to take this mud and don't worry about  
18 the PCBs in it, you know, trust us, it's clean,  
19 you know. That's going to be--

19

KATHRYN McGUCKIN: [Interposing]  
20 [Crosstalk] even know it's a waste, it's not a  
21 problem.

22

23 VENETIA LANNON: Right. It's going  
24 to be difficult. And, like the Solid Waste  
25 Management Plan, I think it's going to take a lot  
of stakeholders and a lot of, you know, coalition

1

2 builders.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

COUNCIL MEMBER BREWER: So, is there a coalition of environmental groups and EDC and Port all thinking about this? Or, is everybody thinking about it together?

VENETIA LANNON: Yes. And, I think it's coming to a head as Fresh Kills closes to accept dredge material, you know, as they go through their closure.

COUNCIL MEMBER BREWER: Um, hm.

VENETIA LANNON: You know, then it'll become more acute. But, you know, the representatives are here from the New York Shipping Association today.

COUNCIL MEMBER BREWER: Right, I see them.

VENETIA LANNON: Yeah, there are lots of people from the business perspective, from the environmental perspective. And, it's really, it's just beginning. I mean, your hearing is well timed.

COUNCIL MEMBER BREWER: Okay.  
Thank you.

CHAIRPERSON NELSON: [Off-mic] I'm

1

2

sorry. Instead of solid waste, maybe something like regulated material.

3

4

KATHRYN McGUCKIN: Exactly right.

5

6

CHAIRPERSON NELSON: It is a challenging name, fearsome name when you hear the other one.

7

8

KATHRYN McGUCKIN: Yes.

9

10

CHAIRPERSON NELSON: So, yeah, let's get rid of this waste business here. So, Council Member Viverita. Wow, I mean, I have another question. But, we really have to move, 'cause, again, I feel so sorry, again, about Tony having to leave. This has been extremely illuminating.

11

12

13

14

15

16

FEMALE VOICE: - - all of us.

17

18

CHAIRPERSON NELSON: Yes. We're going to track you down, especially for our little provincial, little situation as well. And, I'm sure all of my colleagues have a little touch, except the landlocked ones. So, we eliminate that many. But, wow, you know, Professor and Army Corps, EDC, tremendous. And, we really appreciate your testimony. And, it was so incredibly interesting. I think everybody in the room would

19

20

21

22

23

24

25

1

2 just about agree. So, thank you so much.

2

3

VENETIA LANNON: Thank you.

4

CHAIRPERSON NELSON: We'll be

5

speaking to you soon. Thanks. Melissa, thanks.

6

And, again, two experts in the field, the

7

university of probably bedrocks, they're

8

professors. And, we have with us, right now, we

9

have Roland Lewis and Ed Kelly, two people who

10

probably knew all of this already, plus more.

11

And, they can add with their expertise to more

12

information, no doubt about it. Thank you,

13

Melissa. Thank you.

14

ROLAND LEWIS: Which one works?

15

Okay. All right. Well, good afternoon, Chair

16

Nelson and the Committee. I'll echo the

17

sentiments of everybody that spoke before. I

18

think this is well-timed and incredibly important

19

hearing that you're holding. And, I think it's a

20

start of something very, very-- a dialogue that

21

needs to go on and hopefully action will follow

22

that. I'll just summarize, 'cause most of what

23

was said before is dead on it.

24

I often have the opportunity and

25

the obligation to try and present the dredge issue

1  
2 to lay public. And, the best example I always  
3 comes to my mind is something that was, in all our  
4 minds, that just a couple weeks ago when the  
5 mighty Intrepid returned to its berth up on Pier  
6 86, 'cause I remind folks that when it left a  
7 couple years ago for necessary repairs, it didn't  
8 leave. The press was there. The politicians were  
9 there. The brass bands were there. And, it was  
10 stuck in the mud. And, you know, fortunately for  
11 the museum and for all of us, Congressman Nadler  
12 and a bunch of other folks who had a lot of clout  
13 with the Army Corps and others, got on the horn  
14 and got some-- the dredging material and got the  
15 mud removed and the ship was able to get out and  
16 get repaired and come back again.

17 This isn't as true for many other  
18 folks. And, we've touched on them a little bit.  
19 But, I bring to mind, actually, a small business.  
20 It's Schildwachter Oil, up in the Bronx. They're  
21 a oil company up on Westchester Creek, a navigable  
22 water. They are now, and as you were talking  
23 about the large Army Corps budget, which is just  
24 not adequate to dredge all navigable waters in our  
25 City. They're still waiting for Westchester Creek

1  
2 to be dredged. And, as they wait, half-filled  
3 barges are now going up and down the Creek 'cause  
4 they can't fill a barge up all the way 'cause it  
5 will scrape bottom. And so, in thinking about,  
6 you know, play that out in terms of wasted effort,  
7 energy loss, money, exactly, it's insane.

8 And, it goes for education,  
9 recreation. We've talked about Sheepshead Bay.  
10 We've talked about the 79th Street Boat Basin.  
11 Thinking about the Science Barge. And, you know,  
12 think about Caddell Dry Dock. I brought a few of  
13 these for the audience. We're having a waterfront  
14 conference in about two and a half weeks. And,  
15 we're having a session on-- some of the same folks  
16 you're hearing today will be presenting. One  
17 guy's going to be presenting on a session on mud  
18 or on the silt is Steve Kalil of Caddell Dry Dock,  
19 who has a, you know, one of the largest repair  
20 facilities. He had to pay \$300,000 to just test  
21 the mud in front of his facility. And then, you  
22 know, millions more to dredge it. And, he dredged  
23 it before that and as he will say much more  
24 articulately and powerfully than I can, he was  
25 told by DEC that he did it once, you don't have to

1

2 do it again.

3

4 But, it turns out, of course, that  
5 we came up with the dioxins from the upper Passaic  
6 and the PCBs from the upper Hudson are what's  
7 polluting him. He's picking up someone else's  
8 garbage on - - Basin, a tremendous cost in a very  
9 competitive business. He's a small businessman  
10 making a go of it in New York. And, you know,  
11 he's being harmed by this mud issue. And, it's  
12 our, you know, our collective responsibility to  
13 help the Schildwachter Oils and the Caddell Dry  
14 Dock, 'cause it's as much as we pave the roads and  
15 fill the potholes, dredging is our responsibility.

16

17 I'd just like to, again, reiterate  
18 the cost factor is what is driving this as much as  
19 anything else. It's a matter of money. And, you  
20 know, in these times, it's hard to talk about it.  
21 But, it's an, you know, just as many of the  
22 presidential candidates are talking about  
23 investment in infrastructure. This is an  
24 infrastructure. It's not seen by the common eye.  
25 It's not like a big bridge. But, it's an  
infrastructure investment that must be made to  
maintain our economy and our quality of life.

1  
2 I'll talk just very briefly about a  
3 couple of other things. And, I'll mention  
4 something that was mentioned by the Army Corps a  
5 minute ago. The upriver contamination, which, you  
6 know, you know, by Diamond Shamrock and GE, costs  
7 \$25 million a year in extra-- by a new report that  
8 Regional Sediment Management Work Group has put  
9 out. And, that's Army Corps, Port Authority, all  
10 those guys together, \$25 million a year in extra  
11 money to clean up. So, those folks, who polluted  
12 in the first place and are sending that poison  
13 downstream to us, have a economic responsibility  
14 to us to clean up.

15 There are solutions that need to be  
16 explored. Everything we should put on the table  
17 to do things. I'm so happy about what EDC is  
18 doing to try and help small business and use the  
19 dredge material in various creative ways. But,  
20 again, building islands in Jamaica Bay, all sorts  
21 of ideas should happen. You asked about Europe,  
22 in Rotterdam, they actually expand the port  
23 outward. They're building with dredge material to  
24 increase the land size of their city.

25 And, lastly, I was, again, the

1  
2 point made by Tom, from the Army Corps, about  
3 combined sewer overflow, you know. This goes to  
4 show you the holisticness and comprehensive nature  
5 of what our waterfront is. That's a dredge issue.  
6 I actually didn't think about that, but,  
7 absolutely. That's now going to be a standard  
8 talking point. My eyebrows went up the same time  
9 as yours did, Mike. It was exactly right, the  
10 solving the CSO issue is so important for things  
11 in the waterfront, but it's important for dredge  
12 because that garbage is being put in every time it  
13 rains, as well, and poisoning our environment.

14 So, I'll leave you with that. I'll  
15 leave you with my testimony and leave you with the  
16 invitation to please join us over at the Customs  
17 House, the Museum of American Indian - - . I  
18 think it'll be a great conference, including a  
19 session just on mud.

20 EDWARD KELLY: I'm going to be  
21 there.

22 CHAIRPERSON NELSON: Thank you,  
23 Roland. Please, and Mr. Kelly.

24 EDWARD KELLY: My name is Edward  
25 Kelly. I'm the Executive Director of the Maritime

1  
2 Association, Port of New York, New Jersey. And,  
3 I'm here today testifying on behalf of the over  
4 500 paid members of our organization, which relate  
5 to maritime commerce. We are a firm believer in  
6 the responsible mixed-use over this waterfront.  
7 And, dredging is a paramount issue.

8 As you can imagine, the waterfront,  
9 the interface between water and land is where  
10 maritime commerce really commences and begins.  
11 Ships leave from docks. They arrive at docks.  
12 Recently, the New York Economic Development  
13 Corporation had done a survey on maritime support  
14 services. And, it had revealed the high number of  
15 jobs, the activity of all of these relatively  
16 small businesses that are clustered here in our  
17 City, along our waterways that support the larger  
18 economic flow of international shipping, tanks,  
19 cargos, communities, trash, etcetera, that the  
20 maritime community handles every day.

21 Dredging is particularly onerous  
22 and important to these smaller operations.  
23 Roland, I'm glad you did mention Steve Kalil. You  
24 know, I've been working with Steve for several  
25 years now. We've gotten him to become a member of

1  
2 our Board of Directors. He has an issue that  
3 could actually prove embarrassing to the City of  
4 New York. The new Molinari class of the Staten  
5 Island ferries will probably not fit in his dry  
6 docks anymore because of dredging issues.

7 He, as has been mentioned, is on  
8 the Kill Van Kull, which is unfortunately a tidal  
9 flush area for the Passaic River. Now, I am one  
10 of the few people on the planet and a few of my  
11 classmates and friends who may be alive because of  
12 Agent Orange. So, I kind of have a soft spot in  
13 my heart for dioxin. But, nonetheless, you know,  
14 it's a bad thing. It comes down. Through no  
15 fault of his own, he's never produced dioxin, or  
16 had any reason to produce dioxin on or near his  
17 facility. But, nature flows downstream and he is  
18 the receptacle and because he's a dredged area,  
19 sediments tend to drop to the lowest levels. He's  
20 faced with a horrible issue. There is no place  
21 for him to dispose of these dredged materials.

22 Now, the problem is that yes, it  
23 has been mentioned that HARS and several other  
24 areas are around. But, not for partially  
25 contaminated material such as he has. And, most

1  
2 certainly, even for some of the upland facilities,  
3 Fresh Kills, etcetera, although there are spaces  
4 available, they're already committed to the large  
5 scale dredging projects, such as the Federal  
6 Navigation Channel, the 50-foot channel, etcetera.  
7 So, that they really don't have access to get to  
8 these locations, therefore, pushing the cost for  
9 dredge material disposal to a very high and a  
10 prohibitive level.

11 To suffice, let me say that  
12 government is probably at its best when it can  
13 enhance the public good by enabling situations  
14 that cannot possibly be achieved by individuals or  
15 by individual entities. That being the case,  
16 we're thoroughly enheartened with what New York  
17 Economic Development is doing to develop the  
18 Dredge Management Disposal opportunities. No  
19 individual business or entity along our waterway  
20 is going to have the political clout or the  
21 foresight to be able to engineer such deals as can  
22 be done by an entity of the government.

23 Now, we also would support that  
24 there be further state opportunities here, most  
25 notably with DEC, which has been, let's say, not

1  
2 the best partner to work with to get things done.  
3 They're doing their job. But, some of their  
4 parameters, definitions, etcetera, really should  
5 be readdressed, such as reclassifying this from  
6 solid waste to some less horrible-sounding thing.  
7 You know, if you noticed, we used to say in the  
8 business that it used to be dredge spoils. And, I  
9 hadn't heard that term all day. And, I'm glad  
10 because it gives it a negative connotation. And,  
11 to call it solid waste makes it even worse than  
12 spoils. So, I think we have to reassess some of  
13 our terminology.

14           And, we've got to find productive  
15 uses for what can be a constructive material.  
16 This will create opportunities for our businesses,  
17 particularly near shore and non-deep water federal  
18 dredging projects to be able to afford to  
19 participate in dredging opportunities. And, we  
20 would hope that perhaps EDC can also help to  
21 foster perhaps a cooperative operation here in our  
22 City, where we can combine dredging jobs and  
23 perhaps get a neutral third party dredging entity  
24 involved to help to spread costs.

25           When a small operator, who once

1  
2 every, anywhere from two to ten years has to  
3 dredge a relatively small amount of material, for  
4 him to go up against DEC, to go up against trying  
5 to develop a landfill project someplace, it's  
6 obviously not going to happen. And, as a result,  
7 even something as integral to our Harbor, as the  
8 Caddell Dry Dock, which services our tugs, our  
9 barges, most of the vehicles and vessels mentioned  
10 in our Marine Support Services Study, this guy's  
11 running out of space. He has to reprofile. He  
12 has to dredge. And, he can't do it.

13 Now, one other thing that hasn't  
14 been mentioned today, and there is in particular  
15 as a possible source of resource for Caddell and  
16 several others in the Kill Van Kull, in  
17 particular, and Arthur Kill, there has been  
18 created, as a by-product of the 50-foot federal  
19 channel, the states have also created a Bi-State  
20 Dredging Fund. That fund is a bi-state fund with  
21 New York Empire State Development Corp. and it was  
22 the equivalent in New Jersey. It's currently  
23 being held by the Port Authority. We have been  
24 absolutely and totally frustrated with getting any  
25 of that money to be used for the purpose it was

1 specifically designated for. And, we would  
2 appreciate any help on that front as well. We  
3 have repeatedly gone to Empire State Development  
4 and we've been over to the Port Authority. And,  
5 we get this. And, we've been told, you know, so,  
6 we really are looking for how we can free up that  
7 money. There's 20-some odd million dollars in  
8 that fund. We have not been able to accurately  
9 determine. It's between 20 and \$23 million that  
10 we've been told is in there. And, we hope that  
11 that also can be put to productive use to assist  
12 primarily the small business owners that are  
13 addressed in our Marine Support Services groups.

14 So, in closing, we welcome  
15 government intervention because these smaller  
16 business are incapable of wrestling such huge  
17 economic, environmental issues without some type  
18 of an intermediary and perhaps, you know, not me  
19 to say and I don't give you the budget, but EDC  
20 may seem to be the best place for this to happen.  
21 And, we're very much encouraged that they're  
22 grabbing the bull by the horns and starting to  
23 move some of this along. Thank you.

24 CHAIRPERSON NELSON: Wow, thank  
25

1  
2 you, Mr. Kelly, for bringing up that resource,  
3 too. Now, we can start looking into. As a matter  
4 of fact, Kathleen Wah [phonetic], from the EDC  
5 would like to say something. I think you have to  
6 go up here formally to do so.

7 FEMALE VOICE: I believe that was  
8 what he was talking about.

9 CHAIRPERSON NELSON: Oh, okay. Oh,  
10 this part. Oh, that's right, yeah.

11 KATHLEEN WAH: First of all, I  
12 should tell you all that before I started working  
13 for EDC, which I just celebrated my third  
14 anniversary, I was the Regional Dredging  
15 Coordinator for the DEC Region Two office. So,  
16 that's how EDC stole me away. Sometimes, they're  
17 kind of sorry they did because now they have no  
18 one on the other side.

19 But, the idea is that there is a  
20 Bi-State Dredge Fund. There is in excess of \$20  
21 million dollars in the New York portion of that  
22 fund. That fund is what paid my salary when I was  
23 at DEC. But, the personnel portion of it, the  
24 funds expired. The idea is that we, at EDC, have  
25 actually had internal discussions about the

1  
2 possibility of approaching the Port Authority and  
3 ESDC about the ability to manage those funds.

4 And, the reason that we have thought of that is  
5 that we do have dredging expertise. We now have a  
6 Dredge Material Management Program. Neither one  
7 of them has dredging expertise. And, neither one  
8 of them has a Dredge Material Management Program.

9 And, therefore, when someone wants  
10 to use those funds, nobody knows what to do.  
11 Nobody knows how to get them. There's no  
12 protocol. There's no nothing. So, the fact that  
13 I'm hearing today that Ed would actually support  
14 EDC being able to manage those funds is actually a  
15 benefit to me to hear that.

16 ROLAND LEWIS: If I may add, on the  
17 panel, there will be a representative from the  
18 Port Authority and also Chris Ward, the head of  
19 that Port Authority will be there at our  
20 conference. So, we can all get together, cut the  
21 deal right there on November 13th.

22 CHAIRPERSON NELSON: That's some  
23 great information that came out of this hearing.

24 ROLAND LEWIS: Um, hm.

25 CHAIRPERSON NELSON: Okay. Now,

1

2

where do we go with it? We'll have to follow through with this from this Committee through input from you waterfront geniuses. That'd be terrific. And, Council Member Brewer has a question.

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

COUNCIL MEMBER BREWER: Thank you very much. I think Kathleen deserves all the credit for that. So, congratulations. My question is something similar to what I asked before, is there anything technologically going on in other countries that could help us dispose-- what we heard earlier was that the thought of this cost benefit is going on, thanks to EDC. But it's expensive to try to think of some of these technologies that could convert. That's question number one. And then, also for the waterfront conference, Roland, do you have some of the environmental groups also coming so that they can help smooth the way with--

21

ROLAND LEWIS: Yeah--

22

COUNCIL MEMBER BREWER: -- Mr.

23

Grannis?

24

ROLAND LEWIS: The Baykeeper's

25

coming and, as a matter of fact, Jim Tripp, from--

1

COUNCIL MEMBER BREWER: Okay.

2

ROLAND LEWIS: -- Environmental

3

Defense is moderating the panel--

4

COUNCIL MEMBER BREWER: Perfect.

5

ROLAND LEWIS: -- on our dredge.

6

COUNCIL MEMBER BREWER: All right.

7

Go ahead, Mr. Kelly.

8

EDWARD KELLY: I would say that

9

yes, there are active and productive undertakings

10

in such exotic foreign locales as Norfolk,

11

Virginia--

12

COUNCIL MEMBER BREWER: Um, hm.

13

EDWARD KELLY: -- who is--

14

COUNCIL MEMBER BREWER: That is

15

definitely foreign.

16

EDWARD KELLY: -- who is a direct

17

competitor to this port--

18

COUNCIL MEMBER BREWER: Correct,

19

that's--

20

EDWARD KELLY: -- that have huge

21

dredge materials to reconstitute and expand a 543-

22

acre terminal island, Craney Island, that will be

23

in operation very shortly and will compete

24

directly with this Port. Also, they've got the -

25

1  
2 - Port-a-Port, courtesy of the U. S. Navy. You  
3 know, they maintain those depths because the  
4 submarines have to access in and out. So, they  
5 have a very low cost of operation for dredging.  
6 But, using dredge materials, yes, throughout the  
7 world and as nearby as Hampton Roads, Norfolk,  
8 Virginia. This has been used to reconstitute  
9 islands, to expand port facilities. It's been  
10 used to create golf courses, parking lots,  
11 etcetera. I think a few of the uses were  
12 mentioned here. And, that's happening all over  
13 the world.

14 COUNCIL MEMBER BREWER: Okay.  
15 Thank you.

16 CHAIRPERSON NELSON: Wow, sometimes  
17 this Committee feels like a kid in the candy store  
18 that it's like, it's there. It's there. How do  
19 we get to it? Purchase it? Do we break the  
20 window and take out the M and Ms or what? But,  
21 this is really-- some things are really evolving  
22 here, which is terrific. With no more questions,  
23 I suppose and no more statements, really we thank  
24 you so much. And, the panel before you, which was  
25 very, very interesting information, which will be

1  
2 utilized. We can go forward with it and have  
3 another hearing on this. And, see what we can  
4 come up with in the forms of trying to pressure  
5 organizations, governmental, to work within the  
6 framework and help our economy and our City, as a  
7 whole, recreational, as well. So, thank you so  
8 much, gentlemen. And, with no further questions--  
9 oh--

10 ROLAND LEWIS: No, no, I'm good.

11 CHAIRPERSON NELSON: Oh.

12 ROLAND LEWIS: Thank you.

13 CHAIRPERSON NELSON: Thank you.

14 With that, the Committee on Waterfronts is  
15 adjourned. Thank you.  
16  
17

C E R T I F I C A T E

I, DeeDee E. Tataseo certify that the foregoing transcript is a true and accurate record of the proceedings. I further certify that I am not related to any of the parties to this action by blood or marriage, and that I am in no way interested in the outcome of this matter.

Signature

A handwritten signature in cursive script that reads "DeeDee E. Tataseo". The signature is written in black ink and is positioned above a horizontal line.

Date November 24, 2008