

CITY COUNCIL  
CITY OF NEW YORK

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TRANSCRIPT OF THE MINUTES

Of the

COMMITTEE ON ENVIRONMENTAL  
PROTECTION

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B E F O R E: COSTA G. CONSTANTINIDES, CHAIRMAN

COUNCIL MEMBERS: STEPHEN T. LEVIN  
CARLOS MENCHACA  
ERIC A. ULRICH  
KALMAN YEGER

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

SAMARA SWANSTON, Community Counselor and Moderator

VINCENT SAPIENZA, Commissioner of New York City Department of Environment Protection

PAM ELARDO, Deputy Commissioner

MICHAEL DELOACH, DEP Deputy Commission from Bureau of Public Affairs and Communication

DIMITRI KATEHIS, Director Bureau of Wastewater Treatment

GAIL BREWER, Burrough President

PAUL STARELLA, Runs AE Com Water Group in New York

JESSICA FRANKIN, Representing ANDA

1 COMMITTEE ON ENVIRONMENTAL PROTECTION 3

2 SARGEANT HOPE: PC recording has started.

3 SARGEANT AT ARMS 2: According to the  
4 cloud, ready to go.

5 SARGEANT AT ARMS: Backup is rolling.

6 CHAIRPERSON COSTA CONSTANTINIDES: Thank  
7 you and this time will Sargeant Hope please take it  
8 away.

9 SARGEANT HOPE: Thank you, good morning.  
10 And welcome to today's remote Council hearing on  
11 Environmental Protection. At this time, would all  
12 panelists please turn on your videos. I repeat, at  
13 this time would all panelists please turn on your  
14 videos. Thank you. To minimize disruption, please  
15 place all cellphones to vibrate or silent mode. If  
16 you wish to submit testimony, you may do so at  
17 [testimony@council.nyc.gov](mailto:testimony@council.nyc.gov). I repeat  
18 [testimony@council.nyc.gov](mailto:testimony@council.nyc.gov). Chair, you are ready to  
19 begin.

20 CHAIRPERSON COSTA CONSTANTINIDES: Thank  
21 you very much Sargeant Hope. Uhm, good morning  
22 everyone. My name is Costa Constantinides, I am Chair  
23 of the Committee on Environmental Protection. Uhm,  
24 today we will hold an oversight hearing on the  
25 environmental justice impacts of COVID-19 sewage

2 disposal and hear two bills, Intro 1966 of 2020 and  
3 Intro 244 of 2018. Intro 1966 is a local law in  
4 relation to creating a pilot program to test sewage  
5 for COVID-19 RNA and Intro 244 is a local law to  
6 amend the administrative code in relationship to the  
7 sale of non-woven disposable products. SARS-COV-2 is  
8 a new human coronavirus that can spread through close  
9 personal contact via respiration of aerosols even by  
10 interaction with surfaces. The ongoing coronavirus  
11 pandemic in the United States has already sickened  
12 more than 8 million Americans and killed more than  
13 222,000 Americans overall. Longstanding systemic  
14 health and social inequities have put many people  
15 from black and brown communities at increased risk of  
16 getting sick and dying from the coronavirus.  
17 Furthermore, it is not just increased risk, according  
18 to John Hopkins expert, Sherita Golden, M.D., people  
19 of color, particularly African-Americans are  
20 experiencing more serious illness and death due to  
21 COVID-19 than white people. In fact, African-American  
22 counties account for more than 50% of the coronavirus  
23 cases and nearly 60% of the coronavirus deaths.  
24 Research indicates that nominal coronavirus is  
25 present in stool and urine samples in sufficient

2 quantity that wastewater testing can serve as full  
3 community monitor. Until concrete data regarding the  
4 infectivity of viral particles shed via these roots  
5 is established, due care should be exercised assuming  
6 a potential for infectivity. Coronaviruses have been  
7 known to spread through wastewater systems, through  
8 the respiration of aerosols created by toilet  
9 flushing or even by faulty plumbing systems.

10 Similarly, the novel coronavirus has been detected in  
11 fecal samples as well as in wastewater. It not yet  
12 clear whether active viral particles are present in  
13 fecal matter in sufficient quantities to present a  
14 plausible pathway for infection. Assuming viral  
15 particles in the sewer system through a variety of  
16 potential ways of exposure including the waste from  
17 treatment plants. Moreover, aerosol formation during  
18 a treatment process can pose a risk to wastewater  
19 treatment plant operators and facilitate  
20 dissemination. Inactivation of the coronavirus has  
21 not been studied in detail and the coronavirus has  
22 been detected in treated wastewater. Tertiary  
23 treatment, microfiltration, ultrafiltration and  
24 ultrafiltration in membra via reactors has been shown  
25 to increase removal of anoretic viruses in comparison

2 traditional wastewater treatment plant removal.

3 However, the wastewater plans do not remove the

4 virens entirely and highly influent viral loads can

5 lead to insufficient reductions of viruses before

6 discharge. While the impact of the novel coronavirus

7 in wastewater can be tested, the presence of a novel

8 coronavirus in sewage slides or bile slides is less

9 likely to be detected because DP has multiple

10 contracts with service provides that biosolids

11 transport and re-use or dispose of our city's bio

12 solvents. The NU sites are the discretion of the

13 contractors, subject DPs approval. The location for

14 biosolid disposal is distributed throughout the

15 northeast in other states, Ohio, Pennsylvania, New

16 York, Georgia, Virginia; however, when we are sending

17 our biosolids to other locations or 1,000 miles away

18 to Georgia, evidence of whether the corona bile

19 remain viable or remain infectious is uncertain. In

20 1966, in relation to creating a pilot program that

21 tests sewage for COVID RNA would require the

22 Commissioner of DEP and consultation with the

23 Commission of Health and Hygiene to create a pilot

24 program to test the City's wastewater plants for the

25 presence of SARS-COV-2, the strain of coronavirus

2 that causes COVID-19 and submit a report with the  
3 results of the program. Intro 244 of 2018, would  
4 prohibit a retailer from selling non-woven disposal  
5 product unless it complies with testing standards  
6 established by the Commissioner of DEP. I  
7 understand the spread of the novel coronavirus  
8 through the community is an intractable part of  
9 formulating litigation strategies. Monitoring  
10 wastewater and sewage sludge can provide near and  
11 real time data pertaining to the rates of infection  
12 in the general public, enabling Public Health  
13 Official to craft better and more targeted responses  
14 to community spread. I want to thank our community  
15 staff, our community counselor and moderator today,  
16 Samara Swanston. Thank you, Samara as always. Policy  
17 Analyst Nadia Johnson and Nikki Challa, thank you  
18 Nadia for your text messages, keeping me on point.  
19 Financial analyst, Jonathan Seltzer, my own  
20 legislative director, Nicholas Mazowski (SP?) for all  
21 of their hard work. Of course, everyone who was not  
22 named who is behind the scenes making this Zoom  
23 possible. Thank you to our technical staff and  
24 course to all of our hard working Sergeant at Arms  
25 who are making sure that we can get all of this done.

2 Thank you for all of your hard work as well. So,  
3 with that, I will turn it over to our moderator,  
4 Samara Swanston to swear in our first witness.

5 SAMARA SWANSTON, MODERATOR: Thank you, I  
6 will now deliver the oath to the Administration and I  
7 will call on each of you to individually record your  
8 answer to be followed by your testimony, so, please  
9 raise your right hands. I'm directing this to  
10 Vincent Sapienza, Pam Elardo, Michael DeLoach and  
11 Dimitri Katehis. And that's everybody, okay, can  
12 you, do you affirm to tell the whole truth and  
13 nothing but the truth before this Committee and to  
14 respond honestly to the Council Members questions?

15 VINCENT SAPIENZA: I do.

16 PAM ELARDO: Yes.

17 MICHAEL DELOACH: Yes.

18 DIMITRI KATEHIS: Yes.

19 SAMARA SWANSTON, MODERATOR: And now, I  
20 will turn it over to questions uhm excuse me, and now  
21 you may testify when ready, starting with Vincent  
22 Sapienza.

23 CHAIRPERSON COSTA CONSTANTINIDES: Can I  
24 quickly just recognize, I know Council Member Levin



2 and Council Member Yeger, both from Brooklyn are on  
3 the meeting today. Thank you.

4 VINCENT SAPIENZA: Thank you. Okay, I'll  
5 begin, good morning, Chair Constantinides, it is good  
6 to see you and members of the Committee on  
7 Environmental Protection. I am Vinny Sapienza, the  
8 Commissioner of the New York City Department of  
9 Environmental Protection. I am here today to speak  
10 about COVID-19 and non-woven disposable products.  
11 These are important topics and I thank the Council  
12 for focusing on them. I am joined here today by DEP  
13 Deputy Commissioner from our Bureau of Public Affairs  
14 and Communications and by Deputy Commissioner, Pam  
15 Elardo and Director Dimitri Katehis from our Bureau  
16 of Wastewater Treatment. The first agenda item today  
17 is the Environmental Justice impacts of COVID-19  
18 sewage disposal. Environmental Justice is a critical  
19 factor in DEPs mission to protect public health and  
20 the environment. We thank the Chair for his  
21 leadership and advancing Environmental Justice across  
22 the City. We carefully consider public health,  
23 environmental and social impacts of all DEP projects  
24 and operations including the design and construction  
25 of our green infrastructure assets, the

1 prioritization of water bodies in our CSO Control  
2 Program and our Affordability Programs for rate  
3 payers. For our Wastewater Treatment Programs we go  
4 above and beyond the discharge of clean, treated  
5 water, working to recover valuable resources and  
6 reducing the amounts of waste that cannot be recycled  
7 or re-used. For example, we landfill about 70% of  
8 our biosolids, along with screenings as well as an  
9 estimated 40 to 50,000 tons of scum, which is grease  
10 per year that we collect in the treatment process.  
11 While we are investing in and planning to achieve  
12 100% of beneficial use of biosolids we are currently  
13 investigating adding scum to onsite digestion to  
14 increase production of valuable biogas for beneficial  
15 reuse. There is no credible evidence that the  
16 coronavirus can be transmitted through wastewater  
17 exposure. This question has come up and so I want to  
18 answer it directly. Genetic material or the RNA  
19 fragments within the virus can be detected in  
20 wastewater, this is different from the infectious  
21 virus itself. In fact, the coronavirus breaks down  
22 in sewage more easily than other pathogens that we  
23 regularly treat for. So now, on to Intro 1966, the  
24 presence of coronavirus in waste ties in to Intro  
25

2 1966 which calls for a pilot program to test sewage  
3 for COVID-19 RNA. Sewage testing has a potential to  
4 identify corona, COVID-19 outbreaks. We share the  
5 Council's goal of having an effective testing program  
6 in the City. Since the spread, DEPs Bureau of  
7 Wastewater Treatment has been implementing molecular  
8 monitoring techniques in sewage and coordinating with  
9 the New York City Department of Health and Mental  
10 Hygiene. The work has a potential to identify hot  
11 spots and provide early warnings about disease  
12 spread. Similar programs have been established in  
13 other cities around the country and the world. DEP  
14 has engaged with national experts to define the state  
15 of the science and assess the role that virus  
16 tracking can play. We are working directly with a  
17 team from the City University of New York and New  
18 York University, Stanford University and the  
19 University of Michigan and also leading utilities  
20 from across the US to refine the sampling and  
21 analytical methods to tract genetic material, the RNA  
22 from the novel coronavirus in the city's wastewater.  
23 In the short term, the data collected will allow us  
24 to assess trends in genetic material, concentrations  
25 of the virus that causes COVID-19 within the sewage

2 for each of the City's 14 sewer sheds. Preparing for  
3 the long-term, we are building protocols and  
4 infrastructure that can be used in the future to  
5 monitor sewage for potential outbreaks of a number of  
6 viruses such as common influenza. The tools that we  
7 are developing are not just useful for COVID. The  
8 project included collecting samples from all 14 of  
9 our wastewater recourse recovery facilities twice per  
10 week. Our testing covers every neighborhood in the  
11 City because every neighborhood is a part of the  
12 sewer shed as illustrated and you will have the  
13 testimony on paper in front of you but there is a map  
14 that shows the sewer sheds. We are able to conduct  
15 the necessary analysis in house at the Newtown Creek  
16 Microbiology Laboratory. At this stage, the  
17 analytical testing technology is well-developed. A  
18 technical gap will remain due to the multiple, multi-  
19 day steps and the labor-intensive nature of the  
20 analysis. We are further refining the process, and  
21 we are in the process of procuring equipment such as  
22 additional centrifuges and analytical equipment.  
23 DOHMH is early on the process of determining how they  
24 may be able to use the information we send them and  
25 how it may help with disease surveillance and

2 decision making. Preliminary comparison suggests  
3 that this may be a promising contribution to existing  
4 public health data streams. We want to suggest some  
5 technical edits to the Bill language for Intro 1966  
6 to align with our Bill testing methods and best  
7 suited for work that we are doing right now. We  
8 support the Bill's intent and we thank the Council  
9 for supporting us in this effort. Now on to Intro  
10 244, the final agenda item today is Intro 244 of 2018  
11 which relates to wipes being flushed into the sewer  
12 system. I want to thank you for moving forward with  
13 this issue. As the Council is aware, flushing  
14 anything other than human waste and toilet paper can  
15 cause serious problems in the system. Foreign  
16 objects like wipes damage the equipment at our  
17 Wastewater Resource Recovery Facilities and  
18 contribute to fat burps that block sewer pipes. Even  
19 wipes that are labeled flushable should not be  
20 flushed. Preventing items from being flushed is  
21 critical to protect City and private infrastructure.  
22 DEP spends nearly \$19 million annually to remediate  
23 the damage caused by these clogs such as cleaning  
24 sewers, disposing of wipes and repairing damaged  
25 machinery. The prevalence of wipes has increased

1 significantly over the last decade. Over the same  
2 period, the sales of wipes have increased as well and  
3 there is a graphic as well as in the written  
4 testimony that shows the correlation between the  
5 amount of wipes, we are removing from the wastewater  
6 system and the sale of wipes. We want to propose  
7 significant changes to the bill text incorporating  
8 what we have learned from and accomplished since the  
9 Bill was introduced in 2018. The International Water  
10 Services Flushability Group or IWSFG is an  
11 international body of experts who established  
12 standards in 2018 to determine whether something is  
13 truly flushable. Changes to the City's sewer  
14 regulations went into effect in March of this year.  
15 The rules now prohibit any item that does not reach  
16 the IWSFG standard from being discharged into the  
17 sewer system. These are important developments since  
18 Intro 244 was introduced in 2018. We also launched a  
19 Trash It Don't Flush It behavior change campaign last  
20 year. The campaigns purpose was to inform people  
21 about what is flushable. The campaigns targeted  
22 wipes, grease and any other items besides toilet  
23 paper. Everything that contributes to fat burns. We  
24 re-launched the campaign from April to June of this  
25

2 year to remind the public about this important issue.  
3 Unfortunately, we have not seen a significant change  
4 in wipes in the system. DEP has been engaged in a  
5 multi-year, multi-prong effort to address the  
6 prevalence of wipes in our sewer system and we have  
7 made multiple public education attempts including  
8 doubling down on public education since the onset of  
9 the pandemic. We have changed the sewer use rules  
10 this year to prohibit flushing these items. Despite  
11 our efforts, we continue to see wipes and other  
12 debris in our pipes and in our plants. We have been  
13 unsuccessful in eliminating the problem so far and so  
14 we are grateful to the Council's partnership on this  
15 issue. Thank you again for the opportunity to  
16 testify today. My colleagues and I are happy to  
17 answer any questions you may have.

18 CHAIRPERSON COSTA CONSTANTINIDES: Thank  
19 you Commission, always good to see you and to see  
20 your team as well. Pam, I miss seeing you at the  
21 Jackson Heights Green Market uhm it's always good to  
22 see you as well. So, I guess I will start off with  
23 just a few questions. You brought up the centrifuges  
24 and other equipment, do we have like an ETA on what  
25 that equipment will be procured and will be able to

2 move forward with more robust of testing as you  
3 talked about?

4 VINCENT SAPIENZA: Yeah, so uhm, I'm  
5 going to let Pam and Dimitri answer the question.  
6 But now again thank you for your comments also at the  
7 beginning. We've, we've done a lot of good work  
8 this, this past spring and summer and I got to you  
9 now personally visit our Newtown Creek Lab a few  
10 times and seeing how the ramp-up is going but there  
11 is some additional equipment that we need. We were  
12 able to hire three new employees to do this work but  
13 Pam or Dimitri do you have an answer on the  
14 procurement?

15 PAM ELARDO: Yeah, so first of all I  
16 would just like to acknowledge the support that we  
17 had throughout much of New York City and the  
18 community and beyond including Bureau President Gail  
19 Brewer who is interested in helping us set up the  
20 COVID testing lab and we've got the lab set up. It  
21 was right after I would like to recognize Dr. Dimitri  
22 Katehis and his team. He is not a medical doctor but  
23 he does have a PhD. So, he has, he was instrumental  
24 in getting that set up and collaborating across the  
25 country to make it happen so, as you can imagine it



2 is very difficult to take sewage and look for very  
3 fine strands of RNA that are extremely low  
4 concentrations and we had some existing equipment and  
5 we were able to secure filling those vacancies and we  
6 would like to increase our through puts, so I would  
7 like Dimitri to give us just a couple of details on  
8 that if you don't mind.

9           DIMITRI KATEHIS: Certain, uhm, and thank  
10 you again for the opportunity to testify. The  
11 procurements were initiated once we received  
12 approvals in the summer. We've had a couple of  
13 challenges, basically the equipment is rather hard to  
14 locate right now and was on backorder. The  
15 centrifuges are coming in from Germany, so they are  
16 in route as I understand with a delivery anticipated  
17 in mid to late November. The associated analytical  
18 equipment is also on backorder and we expect that to  
19 come a little before Christmas. Okay.

20           PAM ELARDO: But I would like.

21           DIMITRI KATEHIS: I...

22           PAM ELARDO: I would just like to  
23 acknowledge that we currently are sampling a number,  
24 Dimitri just tell us how many samples per week that

2 we are doing and what, what the new equipment will  
3 bring us up to?

4                   DIMITRI KATEHIS: Well, we currently were  
5 executing approximately 40 samples per week,  
6 recognizing that this is a rather laborious method.  
7 With the new equipment online, we anticipate to a  
8 little over double that. While, reducing the time  
9 frame from three days to two days to get local  
10 results back.

11                   CHAIRPERSON COSTA CONSTANTINIDES: And  
12 how closely are we working with the Department of  
13 Health on this? Uhm, I look at Boston and they may  
14 be looking at almost exponential outbreak where like  
15 hours and minutes matter. Uhm, so how are we  
16 coordinating with the Department of Health on the  
17 stuff that we are finding and, and moving forward?

18                   VINCENT SAPIENZA: Yeah, so I'll start  
19 and then I will turn it over to, to Pam and Dimitri.  
20 But now it's a good question in that the test and  
21 trace program that I think we have done locally has  
22 been superb and that is how we have really been able  
23 to keep the pandemic tamped down to the extent that  
24 we have compared to you know other places around the  
25 country, but the traditional test and trace programs,

2 they do have some shortcomings. If people aren't  
3 going to get tested, it is issue and in especially in  
4 EJ communities it can be tough. You know where you  
5 are potentially, at home watching kids who are tele-  
6 learning or your spouse was laid off and you are  
7 working extra shifts, extra jobs. It is sometimes  
8 tough for you to get out to get tested and those  
9 people can get missed through the traditional test  
10 and trace program but by analyzing sewage, you know  
11 if you are infected, even if you are asymptomatic  
12 you are potentially shedding that virus through the  
13 sewer system and we can detect it and it helps us to  
14 get that information fairly quickly and share it  
15 immediately with the Health Department. Uhm turn it  
16 over to Pam now because she's, she's been dealing  
17 with them directly.

18 PAM ELARDO: I would just like to confirm  
19 that we have worked very closely with them and  
20 Dimitri meets with them regularly and we send data to  
21 them pretty much as we develop it. And Dimitri you  
22 can add some more detail on that.

23 DIMITRI KATEHIS: Certainly, we provide  
24 data to do HMH two times per week currently. That  
25 data provides for all 14 sewer sheds, the models of

2 the RNA that was in the influent, the treatment  
3 facilities. We have been discussing with them the  
4 need for the data as this is a typical data stream.  
5 It is not the type of data that they are used to  
6 utilizing so they are working on better understanding  
7 the correlations and understanding how they can best  
8 intergrade that data into their epidemiological  
9 models which were rather complicated and they have a  
10 long track record in utilizing.

11 CHAIRPERSON COSTA CONSTANTINIDES: How do  
12 we coordinate with other jurisdictions that may have  
13 testing programs as well. I mean I referenced Boston  
14 but are we, are we talking with them about you know  
15 best practices or how we coordinate with other cities  
16 that may be doing the same thing or may have this,  
17 have these pieces of equipment already and you know  
18 are moving ahead, so, like what are we teaching them?  
19 What are they teaching us? How, how is that back and  
20 forth going so far?

21 VINCENT SAPIENZA: Okay Pam, I'll let  
22 you...

23 PAM ELARDO: I would just like to say  
24 that you know as soon as we knew that COVID existed  
25 or this version of it, we had immediate interactions

2 across the country with universities and our utility  
3 partners, so, we got ahead of the curve on it and we  
4 are continuing to pursue the objectives of doing  
5 this, this analysis so. Dimitri was probably on the  
6 phone and on Zoom meeting 24/7 the first couple of  
7 months of this and we've been very engaged. Uhm  
8 Dimitri you can provide a little more background  
9 there.

10                   DIMITRI KATEHIS: Certainly, uhm there  
11 have been three mechanisms that we have been engaging  
12 in a cross the county and actually also with your  
13 utilities. One mechanism was our academic partners  
14 that uhm Vinny spoke of or which were spoke of  
15 earlier which included Stanford, University of  
16 Michigan, some of the powerhouses in this specific  
17 area of coronavirus detection. We work with the  
18 local academics. Our City University of New York,  
19 partners who were amazing in terms of both method  
20 development in terms of the fundamentals as well as  
21 training of our staff. We work closely with NYU who  
22 supported us in developing methodologies who actually  
23 sample and then to bank those samples and freeze them  
24 and so forth. Uhm, from the utility side, uhm we  
25 worked with Hampton Road Sanitary and give them a

2 shout up because they really had a mature program  
3 that targeted microbial source tracking and we were  
4 able to learn a lot from their more than six years of  
5 experience in this type of molecular method. On our  
6 end, we have also been engaging with national,  
7 international research organizations such as the  
8 Water Research Foundation. For example, I served a  
9 project committee member on development and execution  
10 of a project where we got over 30 laboratories from  
11 across the US to test samples so that we can better  
12 understand the various methods and what their  
13 limitations and what potential optimizations we can  
14 execute on those.

15 CHAIRPERSON COSTA CONSTANTINIDES: Are  
16 there things other jurisdictions are doing that we  
17 decided not to do or maybe found unnecessary?

18 DIMITRI KATEHIS: Well, if I may take  
19 that, so there, in the beginning especially in March  
20 and April there was a lot of uncertainty as you can  
21 imagine in terms of the analytical methods and we  
22 were all actually trying different type of  
23 technologies. After uhm, three very rough months of  
24 developing in parallel multiple analytical methods we  
25 were able to eliminate the need for an ultra-

2 centrifuge which is a specific type of method because  
3 we are, we do have a some special considerations here  
4 due to the size of our system the fact that we need  
5 to run samples for 14 plants, not one, two or three  
6 and in addition to that be able to go upstream into  
7 the sewer sheds if called upon to look at sources and  
8 greater resolution. So, just by the through that we  
9 required forced up to eliminate some of the simpler  
10 methods and other laboratories were using.

11 CHAIRPERSON COSTA CONSTANTINIDES: So,  
12 uhm, are we going to put our, do we do open data? Do  
13 we share results on open data portal at all?

14 DIMITRI KATEHIS: Uhm, well, Mr. Chairman  
15 we thought about that and just I guess, the, cause I  
16 got to look at what the data looks like and I don't  
17 know how useful it would be, it wasn't useful to me.  
18 I didn't know what I was looking at so, I guess, how  
19 we can put it in to format that is useful to anybody  
20 other than the Health Department seems to be a  
21 challenge, I know Michael, you've looked at this too.  
22 I don't know if you want to say anything?

23 CHAIRPERSON COSTA CONSTANTINIDES: Can we  
24 turn on Michael's microphone?

2 MICHAEL DELOACH: Yeah, can you hear me  
3 now?

4 CHAIRPERSON COSTA CONSTANTINIDES: Yeah,  
5 alright there he is.

6 MICHAEL DELOACH: Yeah, we are continuing  
7 to review it. It is just a question of how we can  
8 adapt the data, so we are continuing to look in to it  
9 to see if it is possible?

10 CHAIRPERSON COSTA CONSTANTINIDES: Have  
11 we talked to other jurisdictions? I, I keep going  
12 back to Boston but Boston seems to be able to. I  
13 mean I seen their data on Twitter and you know it  
14 uhm, it seemed pretty easy for me to understand. Are  
15 we kind of coordinating with other jurisdictions on  
16 how they are releasing their data in the open portal  
17 format?

18 DIMITRI KATEHIS: It is definitely  
19 something we can do more of. We can do more of that.  
20 I'm not sure who we talk to but we can definitely you  
21 know try and get the information you know publicly  
22 accessible.

23 CHAIRPERSON COSTA CONSTANTINIDES: I  
24 looked at that data and it frightened me prior to  
25 this hearing. It showed that a potential huge



2 outbreak in Nass City is on the way uhm and you know  
3 having that data uhm internally and both externally  
4 and letting people now, hey you know there is  
5 something on the horizon here, you should be doubly  
6 careful right? And you know we need to reinforce; I  
7 mean there is like some COVID fatigue going on where  
8 people aren't masking up. They are, I was in, don't  
9 judge, I had to take my son to get his glasses and he  
10 begged to go to McDonald's it wasn't my first choice  
11 but I was in there and there someone there without a  
12 mask and I was you know mortified by it. (clearing  
13 throat). You know I've had COVID and it's, it's not  
14 something that anyone wants. So, I think we have some  
15 COVID fatigue and I think you know by having data I  
16 would say, just sort of looking at the hot spots  
17 before they are happening. Here is what's going on  
18 in this quadrant of the city or that quadrant of the  
19 city might be useful just both now and the general  
20 public.

21 VINCENT SAPIENZA: Yeah, definitely and as  
22 you know we continue to build this out and increase  
23 its effectiveness and we will continue to figure out  
24 ways that we can you know use that information and

2 help the public to you know stay, stay you know  
3 cautious and stay safe during these difficult times.

4 CHAIRPERSON COSTA CONSTANTINIDES: Uhm,  
5 and I guess the last, question I wanted to ask,  
6 testing about the facilities, the results. And I want  
7 to recognize Council Member Menchaca, I know he is  
8 here as well, does he have any questions? (long  
9 pause). I'm guessing not. Okay, so. And once we  
10 have, I guess the last question I have once we have  
11 this new uhm these new technologies, the new  
12 centrifuges, the new equipment and saying the  
13 centrifuges should be here before Thanksgiving. The  
14 other equipment should be here before Christmas, what  
15 does that look like? You know how soon can we get  
16 them on line, like what does it look like as far as  
17 being able to integrate that into what we are doing?

18 VINCENT SAPIENZA: Dimitri, go ahead.

19 DIMITRI KATEHIS: Yes sir, uhm with  
20 respect to the centrifuges we can get those online  
21 because they are equivalent to the equipment that we  
22 already have, very rapidly within a week or so and  
23 that will allow us to boost production from the uhm,  
24 from the 40 samples we are running currently up to  
25 about 50, 55 samples that we anticipate. And then the

2 next boost will occur when the uhm digital PC  
3 equipment comes in and that is what we anticipate  
4 will take us up to our 80-sample threshold. The DPCR  
5 equipment we anticipate about a month getting it  
6 fully online with the complexity associated with that  
7 equipment.

8 CHAIRPERSON COSTA CONSTANTINIDES: Okay,  
9 alright so with that, uhm, I don't have any other  
10 questions, do any of my colleagues have any  
11 questions? If not, Samara, I will pass it to you to  
12 see if there anybody that has raised their hands?

13 SAMARA SWANSTON: Does anyone else want  
14 to answer, ask questions of the administration at  
15 this time? Okay, well seeing no more Council  
16 testimony, we can turn now to the public testimony, I  
17 would like to remind everyone that unlike our typical  
18 Council hearings, we will be calling individuals one  
19 by one to testify. Council members who have questions  
20 for particularly panelists should use the raise hand  
21 function in Zoom. For panelists, once your name is  
22 called, a member of our staff will unmute you and the  
23 Sargeant at Arms will give you the go ahead to begin  
24 upon the setting of the timer. Please wait for the  
25 Sargeant to announce your testimony before beginning

2 your testimony. Your testimony will be limited to 5  
3 minutes.

4 CHAIRPERSON COSTA CONSTANTINIDES: Ms.  
5 Samara, everyone else I just want to thank you all  
6 for your testimony today since there are no more  
7 other questions from our Council staff or Council  
8 Members. Thank you for your hard work during this  
9 difficult time, I look forward to coordinating with  
10 you on this Legislation and I do agree with you, even  
11 though I didn't ask about the Bill and Council Member  
12 Reynoso is not here, I think we all agree that there  
13 is no such thing as a flushable wipe. So, thank you  
14 for all of your work.

15 VINCENT SAPIENZA: Thanks.

16 CHAIRPERSON COSTA CONSTANTINIDES: If I  
17 don't speak to you have a wonderful holi,  
18 Thanksgiving.

19 VINCENT SAPIENZA: Thank you Mr. Chair,  
20 you too.

21 SAMARA SWANSTON: Now, I would like to  
22 welcome Borough President Gail Brewer to testify  
23 followed by Kathy Nazari, fellow president Gail  
24 Brewer.

25 SARGEANT AT ARMS: Your time starts now.

2 CHAIRPERSON COSTA CONSTANTINIDES: Please  
3 now put the borough President and let her speak as  
4 long as.

5 SARGEANT AT ARMS: I copy that.

6 GAIL BREWER: Thank you very much, I will  
7 try to stick to the time however and I want to thank  
8 you Chair Constantinides because your work on the  
9 Environmental Protection Committee is legendary and  
10 this is just one more example. So, I am very  
11 supportive of Intro 1966. That's what I am going to  
12 talk about and I don't know if it is a pilot program  
13 but it sure is needed to be something that we talk  
14 about because it has taken a little bit too long to  
15 get the City up and going on this uhm wonderful  
16 program to look at wastewater to detect the potential  
17 spread of COVID and other god awful viruses that  
18 might come about. Uhm, I know that we all got the  
19 numbers, I am just going to summarize how many New  
20 Yorkers have died, I don't know if this would have  
21 helped but I wish that it had existed previously.  
22 Uhm, I think we know that testing sewage is an  
23 effective way to detect the spread of COVID 19 and  
24 anything else. I know that Holland and other  
25 countries and as you said Boston have been using this

effectively. So, in my situation, the reason I was interested is, I think you know we had a very active Manhattan solid waste advisory board. I think there is one getting started in Queens now and that's a good thing and as a result of their advocacy we wrote to the Governor and the Mayor saying to make sure that this program existed. That it was a great strategy for dealing with this horrible pandemic. We also reached out to professor Kevin Rosalio who is at Hafsra and he pointed out that the potential for looking and tracking the prevalence of SARS COVID-2 in New York would be very enhanced by this program. I am a Pam Elardo fan and I think you are also and you can go through the, you have the advantages I heard earlier of going to the market, the green market and seeing her. I just watch her over Zoom and then I've been to Newtown Creek and seen the amazing work she does. So, really a lot of this is due to her leadership. I think starting in the spring and then in to August DEP developed and measure this validated method to measure NAR of all sewage and they are continuing that they are working very, very closely, that was a good question with H and H, Department of Health, Academics, Hospitals and labs all across the

1 country I think originally started with Stanford but  
2 Stanford is Stanford, we need to be New York and do  
3 it ourselves. And I think as you heard earlier, 40  
4 samples per week but we obviously need to do more as  
5 soon as the equipment arrives. It has taken awhile  
6 for her to be able to get this off. I've got like  
7 three suggestions. I think that if the Council  
8 mandates wastewater testing for COVID and I think we  
9 will, then DEP must have the money and the resources.  
10 Uhm, I knew as early as June '18 you know when she  
11 and I were on a panel discussing wastewater testing  
12 that DEP was ready to move full speed ahead as soon  
13 as OMB approved the release of funds for the salaries  
14 of the three scientists and the money for the  
15 equipment. I think it was only \$230,000. I was going  
16 to do a GoFundMe in order to purchase it at that  
17 point because of the need for it. OMB eventually  
18 allowed the hiring to proceed and we were working on  
19 the equipment as you have heard but this has been a  
20 delay and it needs to not be a delay in the future.  
21 If anything, new comes along that she needs, the City  
22 needs to provide it. Two, as you know 1966 requires  
23 collaboration between DEP and the Health Department  
24 to report on the feasibility of expanding the  
25

2 proposed pilot although I think we are beyond the  
3 pilot now. DEP is in regular communication with all  
4 of the agencies but particularly Health and HH so  
5 that the data collected through wastewater testing is  
6 integrated into these agencies own data stream for  
7 more comprehensive protection of COVID-19 community  
8 spread and anything else that could come along. Once  
9 the test is working, the cause agency, it is vital to  
10 coordinate testing and tracing and it will work even  
11 better if DEP has the resources to be able to do that  
12 part of it. And three, as you heard earlier and thank  
13 you for suggesting this Mr. Chair, I am a big  
14 believer as you know of the New York City Open Data  
15 Portal having had something to do with its  
16 initiation. I know that it may be hard to gravel the  
17 data but there are a lot of smart people in New York  
18 City and so I stress the importance of ongoing data  
19 collection, analysis, and sharing and I really urge  
20 the Council in that Bill, Intro 1966 to say that data  
21 collected through wastewater testing must be made  
22 available publicly on the New York City Open Data  
23 Portal because there are many people it takes a  
24 village to do anything in this City and having that  
25 data available may have other ideas that come out of



2 it. Congratulations on this hearing. In college, I  
3 wrote my thesis on wastewater treatment facilities of  
4 which I know nothing but it is certainly something  
5 that is incredibly important to our City. I  
6 definitely appreciate your hearing and your knowledge  
7 and like I said Pam Elardo walks on water. Thank you  
8 very much, Mr. Chair.

9 CHAIRPERSON COSTA CONSTANTINIDES: Madam  
10 Borough President, I will just say that you have been  
11 an inspiration to me as an elected official from my  
12 first time working for Council Member Darlene Milling  
13 and being down the hall from your office, I remember  
14 seeing all of your hard work and you have set the bar  
15 very high for what elected officials can accomplish  
16 and how hard one elected official should work. So,  
17 thank you for your commitment to the City and all  
18 that you do and, you have always been an inspiration  
19 to me and so many others. Thank you for all that you  
20 and thank you for testifying today.

21 GAIL BREWER: Thank you.

22 CHAIRPERSON COSTA CONSTANTINIDES: And I  
23 do agree with you and Pam Elardo walks on water. I  
24 met her on top of a Wastewater Treatment Plant. Our  
25 first time. It was a lot of fun. Uhm, you know so

2 Pam is, is, Pam and the whole DEP really work so very  
3 hard and yeah, I whole heartedly agree with you and I  
4 will look at your edits and agree with you and I look  
5 forward to advancing this Bill with your partnership.  
6 Thank you.

7 SAMARA SWANSTON: And next, we will hear  
8 from Paul Starella.

9 SARGEANT AT ARMS: Time starts now.

10 CHAIRPERSON COSTA CONSTANTINIDES: Uhm,  
11 Kathy, Kathy Nazari, is that, you called her?

12 SAMARA SWANSTON: She's not, she's not  
13 here at the present time.

14 CHAIRPERSON COSTA CONSTANTINIDES: Okay.

15 SAMARA SWANSTON: Otherwise, I would be  
16 calling her.

17 CHAIRPERSON COSTA CONSTANTINIDES: Okay,  
18 thank you.

19 PAUL STARELLA: Can you hear me?

20 SARGEANT AT ARMS: Yes Paul, your time  
21 starts now.

22 PAUL STARELLA: Uhm, can you, okay, thank  
23 you. Uhm, first I would like that thank the members  
24 of the Committee on Environmental Protection, and  
25 particularly Committee Chair Constantinides for the

1 opportunity to testify today in support of creating a  
2 pilot program to test sewage for COVID-19 RNA. My  
3 name is Paul Starella and I run AE COMS Water Group  
4 in New York. In this capacity, I have worked with the  
5 New York City Department of Environmental Protection  
6 for more than 20 years on large water and wastewater  
7 infrastructure projects. For the past six months, I  
8 have been leading AE Coms efforts to monitor  
9 wastewater for COVID-19 RNA and have been directly  
10 involved in implementing pilot studies across the  
11 country from as long as Bergen in Westchester  
12 Counties to the Commonwealth to Kentucky and to the  
13 City of Phoenix. As the only leading indicator of  
14 COVID-19 wastewater analysis can serve as an early  
15 warning system to quickly establish the presence of  
16 the virus in the general population. Studies have  
17 demonstrated that COVID-19 RNA can be detected up to  
18 two weeks before symptoms emerge which is  
19 particularly significant given that the virus can be  
20 transmitted by people who are asymptomatic. The  
21 presence and concentration of RNA from the virus can  
22 indicate an imminent increase or decrease of virus  
23 infection when routinely tested over a given time and  
24 when monitor the trends. The resulting data can then  
25

1 be used proactively to inform public policy decisions  
2 that can help protect public health. This method is  
3 not new. Similar wastewater analysis has been  
4 performed for years to detect opioid concentrations,  
5 normal virus, antibiotic resistant bacteria, polio  
6 virus and measles throughout the world. In many  
7 countries including the Netherlands, Finland and  
8 Germany currently test for COVID-19 RNA. An  
9 interesting case study is Israel's sewer surveillance  
10 program which was established in 1989 by the Ministry  
11 of Health to detect polio virus from samples  
12 collected weekly from sewage trunk lines and  
13 treatment plants utilizing the same test we now use to  
14 detect the novel coronavirus. In 2013, polio virus  
15 was detected and the Ministry of Health acted quickly  
16 to vaccinate the public. Consequently, none of the  
17 infections resulted in paralysis. Given the long  
18 history of wastewater analysis there are some lessons  
19 learned that New York City can benefit from. First,  
20 is frequency and turnaround time to identify virus  
21 trends up to two weeks in advance of the appearance  
22 of medical symptoms in the general public. Testing  
23 must be performed no less than twice per week as you  
24 are prosing here and results delivered ideally within  
25

48 hours of sample. The trends that emerge from revealing the results over time can inform proactive mitigation strategies to help slow the spread of the virus. The time lag that extends data collection can diminish the utility of the results. In addition to New York City's 14 Wastewater Treatment Facilities there are opportunities to sample other locations including manholes and pumping station. Given the City's size and population, these types of sites could help identify more localized areas of infection while still maintaining anonymous data. The more, the more granular data can inform efforts to contain the virus in the smaller hot spots, protect the most vulnerable in those areas and avoid large scale shut downs all in advance of medical symptoms appearing in these populations. Finally, it is important to consider the possible need to normalize samples that are taken on different days and in different areas, accounting for variations in wastewater strength which can be impacted by a number of factors including intrusion of dry water and storm water into the sewage collection system. This is a quality assurance measure that will help ensure accuracy of the daily results and thus the trends over time. As

2 the only leading indicator of COVID-19 wastewater  
3 monitoring is an essential to limit the spread of  
4 highly contagious and potentially lethal virus and  
5 help keep New York City safe. The pilot program is  
6 an excellent first step towards implementing a  
7 broader Citywide wastewater monitoring program to  
8 protect us in the future from viruses both known and  
9 unknown and prevent the potential catastrophic  
10 effects of another novel coronavirus. Thank you.

11 CHAIRPERSON COSTA CONSTANTINIDES: Thank  
12 you Paul. And thank you that we have had an  
13 opportunity to speak and I appreciate your  
14 coordination with the City on this topic and other  
15 topics as well. So, I think that partnerships like  
16 that should continue and we should continue to seek  
17 out the best science possible as we move forward here  
18 to get this right and to make sure that we are safe.

19 PAUL STARELLA: Thank you.

20 CHAIRPERSON COSTA CONSTANTINIDES: Thank  
21 you. Okay.

22 SAMARA SWANSTON: And next we will hear  
23 from Jessica Frankin.

24 SARGEANT AT ARMS: Time starts now.

25 JESSICA FRANKIN: Can you hear me?

2 CHAIRPERSON COSTA CONSTANTINIDES: I can.

3 JESSICA FRANKIN: Great, thank you so

4 much. Uhm good morning or good afternoon Mr.

5 Chairman and honorable members of the Committee as

6 well as Committee staff and Sargeant at Arm Staff.

7 My name is Jessica Frankin and I am here on behalf of

8 ANDA, the Association of the Non-Woven Fabrics

9 industry and I am grateful for the opportunity to

10 testify today to share our concerns regarding Intro

11 244. Just by way of background, ANDA is the trade

12 association that represents disposable wipes, fabric

13 makers, wipes manufacturers and some brand owners.

14 Our members are committed to designing wipes that

15 meet consumer expectations and their health and

16 hygiene needs while minimize post-consumer impacts on

17 municipal wastewater infrastructure and the

18 environment. As such, we do of course share the

19 City's concern about the persistent problem of

20 wastewater system clogs. However, despite the Bill

21 authors best intentions and that of DEP, uhm we do

22 believe that the Intro 244 proposed solution of

23 mandating a performance standard, possibly the IWSFA

24 Standard and Mr. Sapienza described for flushable

25 wipes simply will not address the problem at hand

1 that is really the inappropriate flushing of products  
2 that are not labeled as flushable. Numerous forensic  
3 studies that have been conducted by wastewater  
4 professionals of systems in various locations  
5 throughout the years including Jacksonville, Florida,  
6 the United Kingdom, Portland, Maine, Minnesota and  
7 even an independent study that was commissioned by  
8 the New York City Department of Environment  
9 Protection and Law Department in 2016 have all  
10 repeatedly shown that the real culprit in sewer  
11 systems is the incorrect flushing of items that are  
12 not labeled flushable. So, these are things like  
13 non-flushable baby wipes, household cleaning wipes,  
14 disinfecting wipes, feminine hygiene products and  
15 things like paper hand towels. By stark contrast in  
16 these studies, wipes that are labeled flushable  
17 represented a mere 1 to 2% of what is being found on  
18 sewer system screens and in clogs. This is because  
19 flushable wipes already undergo rigorous testing  
20 under the industry's long-standing guidelines,  
21 currently in their 4th iteration in order to be  
22 labeled flushable. These guidelines require a wipe  
23 labeled flushable to undergo seven different tests in  
24 order to establish, uhm compatibility with the sewer  
25



1 system and those tests look at various points in  
2 which a wipe would travel through the system. Uhm,  
3 the results from these forensic studies that I have  
4 cited which have also been provided to the Committee  
5 in advance of the hearing in formal reports that have  
6 been issued I really believe speak for themselves.  
7 Rather than develop a potentially problematic  
8 standard for flushable wipes that would do nothing to  
9 address the problem affecting wastewater systems or  
10 at least nothing in a meaningful way ANDA would like  
11 to offer ourselves up with the opportunity to  
12 collaborate with City and local wastewater operators  
13 to develop a cooperative approach aimed at addressing  
14 and correcting the improper disposal of wipes and  
15 items that are not labeled flushable that are clearly  
16 demonstrated to cause clogs and accumulate in  
17 systems. In fact, ANDA has severe examples of  
18 successful collaboration with both various local  
19 jurisdictions as well as wastewater operators in  
20 several locations including recently earlier this  
21 year in Washington State. ANDA believes that this  
22 type of approach will be far more effective at  
23 reducing the unwanted debris in New York City sewer  
24 systems and we are hopeful to have this opportunity  
25

2 to partner with you to tackle the problem of non-  
3 flushable wipes in the City's wastewater system. Uhm,  
4 I don't want to push up too much on my time so I am  
5 going to stop here but I really do appreciate having  
6 the opportunity, I would like to express my thanks to  
7 your committee staff who are very helpful in getting  
8 me online and ready and prepared to participate today  
9 on very short notice so thank you for that. Happy to  
10 answer any questions that you might have?

11 CHAIRPERSON COSTA CONSTANTINIDES: As I  
12 mentioned during my, my time I talked about the  
13 challenges that we see here in New York City that  
14 there really is no such thing as a flushable wipe  
15 here. And wouldn't you sort of glean from you know  
16 people putting things you know wipes that maybe  
17 aren't labeled flushable as some measure of  
18 confusion. Right? They are putting non-flushable  
19 wipes and flushable wipes. They are buying wipes  
20 that your industry should have instead of creating  
21 this mess that there is a flushable wipe and  
22 therefore people just believe they can flush whatever  
23 wipes they are. Because you know, it is, you are  
24 creating this mess?

2 JESSICA FRANKIN: Well, as you can  
3 imagine, I would disagree with you about it being a  
4 myth and again I would say that if you look at the  
5 data that you would see that flushable wipes are  
6 performing as they were intended. But your point  
7 about confusion and the need for consumers to better  
8 understand what they should and should not be  
9 flushing, you make an excellent point and so when I  
10 reference the collaborations that we've been engaged  
11 with, with cities and other wastewater operators  
12 these were locations and again I mentioned Washington  
13 State, these were locations that saw that the primary  
14 problem in their systems were the flushing of these  
15 non-flushable wipes and other items that should never  
16 been flushed and so what we were able to do is to  
17 work with these wastewater system operators to  
18 develop more targeted campaigns and educational  
19 materials in order to be able to make sure that  
20 people know that they should not be flushing those  
21 products. You know, I think our concern here is with  
22 the standard like what the IWSSD has developed this  
23 could end up, it's so unnecessarily stringent that  
24 this could end up resulting in the availability of  
25 flushable wipes going away but the behavior of

2 consumers using these wipes which they have come to  
3 rely upon you know in bathroom settings, elderly,  
4 caregivers, a lot of vulnerable populations do rely  
5 on these products, is that the behavior will still  
6 remain but the one product that actually does work  
7 isn't going to be available anymore. So I think for  
8 us, you know we seen an opportunity to both tackle  
9 the real problems by having more targeted messaging  
10 uhm but also to you know again make sure that the  
11 City's problems don't worsen by potentially imposing  
12 standards that are so overly rigid and unnecessarily  
13 so that they end up making it such that flushable  
14 wipes aren't available to consumers then people shift  
15 their purposes to baby wipes and other very strong  
16 wipes which are causing the problem.

17 CHAIRPERSON COSTA CONSTANTINIDES: I  
18 appreciate your testimony today, Ms. Frankin. Thank  
19 you so much for being on. I appreciate your time and  
20 your efforts. Thank you.

21 JESSICA FRANKIN: Thank you so much, I  
22 appreciate it again.

23 CHAIRPERSON COSTA CONSTANTINIDES: Have a  
24 good day.

25 JESSICA FRANKIN: Thank you, you too.

2 SAMARA SWANSTON: At this time, I would  
3 like to ask if there is anyone who has registered to  
4 testify but whose name I have not called? If so,  
5 please raise your hand using the Zoom function.  
6 (clearing throat). Seeing none, I will now turn it  
7 over to Chair Constantinides for any closing remarks.

8 CHAIRPERSON COSTA CONSTANTINIDES: I  
9 mean, I just want to again thank the entire team,  
10 uhm, first the DEP team, Vincent Sapienza, Pam  
11 Alardo, Dimitri, and Michael DeLoach, thank you for  
12 your testing today. I look forward to partnering with  
13 you as we move forward on 1966 and 244. Uhm, I want  
14 to thank your own staff, our Committee Counsel and  
15 Moderator today, Samara Swanston. Our policy  
16 analysis both Nadia Johnson and Nikki Challa, uhm our  
17 Sargeant at Arms who have been doing a great job as  
18 always, thank you. Joanna Castro who has helped with  
19 the Zoom and all of the technical staff, anyone who  
20 has helped, Megan Chan, everyone who has been behind  
21 the scenes today to make sure that this did well. my  
22 own staff, Nicholas Makowski my Legislative Director  
23 and all of those who testified who gave of their time  
24 today to make sure that the City emerges from this  
25 crisis better equipped to deal with the challenges of

2 both COVID and future potential outbreaks and  
3 pandemics. So, I look forward to moving these Bills  
4 and of course I want to thank our speaker, Corey  
5 Johnson for his great leadership as well. So, seeing  
6 no one else that is willing to testify today, I, I  
7 want to gravel this Committee Hearing of the  
8 Environmental Protection Committee on October 26th,  
9 closed. (gavel pounding)

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C E R T I F I C A T E

World Wide Dictation certifies that the foregoing transcript is a true and accurate record of the proceedings. We further certify that there is no relation to any of the parties to this action by blood or marriage, and that there is interest in the outcome of this matter.



Date November 14, 2020