

**In the Matter Of:**

LICAP

2019 State of the Aquifer Report Update

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**PUBLIC HEARING**

*December 18, 2019*

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*Groundwater Resources Management Plan*



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2019 STATE OF THE AQUIFER REPORT UPDATE and  
LICAP GROUNDWATER RESOURCES MANAGEMENT PLAN  
PRESENTED BY THE LONG ISLAND COMMISSION FOR  
AQUIFER PROTECTION (LICAP)

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1150 Franklin Avenue  
Garden City, New York

December 18, 2019  
4:08 p.m.

LONG ISLAND COMMISSION FOR AQUIFER  
PROTECTION PUBLIC HEARING ON GROUNDWATER  
RESOURCES MANAGEMENT PLAN, held at the above  
time and place, taken before Charissa Hromadka, a  
shorthand reporter and Notary Public within and  
for the State of New York.

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

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3 JEFFREY W. SZABO, Chairman  
4 Suffolk County Water

5 DON IRWIN  
6 Nassau County Department of Health

7 CHRIS OSTUNI  
8 Nassau County Legislature

9 DAVID GANIM  
10 Nassau County Soil and Water Conservation District

11 BRIAN SCHNEIDER  
12 Nassau County Executive

13 STEPHEN TERRACCIANO  
14 U.S. Geological Survey Long Island Program Office

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1 HEARING

2 MR. SZABO: My name is Jeff Szabo. I'm  
3 the Chief Executive Officer of the Suffolk  
4 County Water Authority and Chairman of the  
5 LICAP Commission. Let me allow the individuals  
6 here to identify themselves. We will start  
7 with Mr. Irwin.

8 MR. IRWIN: Don Irwin, Nassau County  
9 Commissioner of Health.

10 MR. TERRACCIANO: Steven Terracciano,  
11 U.S. Geological Survey.

12 MR. SCHNEIDER: Brian Schneider, Nassau  
13 County Executive Office.

14 MR. GAMIN: David Gamin, Nassau County  
15 Soil & Water Conservation District.

16 MR. SZABO: Thank you all for being here  
17 today and for you attending the audience.  
18 Before we start, let's do the Pledge of  
19 Allegiance.

20 (Whereupon, the Pledge of Allegiance  
21 was recited.)

22 MR. SZABO: Thank you very much. We are  
23 going to start today's hearing by having a  
24 presentation sort of a summary, a PowerPoint  
25 presentation and summary by Steve Colabufo

1 HEARING

2 related to the Groundwater Management Resource  
3 Plan. Mr. Colabufo will make the presentation  
4 and then we will go into accepting comments  
5 about the plan.

6 Steve?

7 MR. COLABUFO: Thanks, Jeff. As Jeff  
8 mentioned, I'm Steve Colabufo. I'm the Water  
9 Resources Manager for the Suffolk County Water  
10 Authority and we are here to talk about the  
11 2019 State of the Aquifer update, as well as  
12 the update (inaudible). This is the fourth  
13 State of the Aquifer update and the third  
14 update since the initial report back in 2016,  
15 as well as the culmination of the Groundwater  
16 Resources Management Plan. So it's an  
17 interesting time for LICAP and for groundwater  
18 on Long Island so we are here to talk about  
19 that.

20 For those who may not know, LICAP, Long  
21 Island Commission for Aquifer Protection, is a  
22 bi-county entity formed to address both quality  
23 quantity issues facing Long Island's aquifers  
24 on an island wide basis.

25 It was created through legislation passed

1 HEARING

2 by Nassau and Suffolk Legislatures in 2013 and  
3 reauthorized last year in 2018 for another five  
4 years.

5 The two major deliverables, products we  
6 have been focused on since LICAP's inception  
7 have been the annual State of the Aquifer  
8 Report, as well as the Groundwater Resources  
9 Management Plan. LICAP members consist of the  
10 very broad array of groundwater professionals  
11 representing water providers, Nassau and  
12 Suffolk County Executors, legislator branches,  
13 as well as the Department of Health, Soil &  
14 Water Conservation District of all counties,  
15 the New York State DEC, as well as the United  
16 States Geological Survey, a very broad range of  
17 groundwater professionals and really the  
18 underlying -- the technical details and the  
19 products we are going to present, the people  
20 and the process is just as important. It can't  
21 happen without all of your efforts with many  
22 people of Long Island.

23 There's 11 voting members in LICAP.  
24 There's an additional nine members that were  
25 added to the 2018 and voting members and

HEARING

1  
2 there's two original or four total  
3 subcommittees. Two original LICAP back in 2013  
4 the Water Resources Infrastructure  
5 Subcommittee, as well as the Water Resources  
6 Opportunities Subcommittee, and then with the  
7 2018 resource subcommittees were formed. The  
8 Conservation Subcommittee, as well as the Long  
9 Island Nitrogen Action Plan Subcommittee. Each  
10 one is focuses on work products that it deals  
11 with.

12 So the State of the Aquifer update for  
13 this year, we took a slightly different  
14 approach than what we did in the past. Myself  
15 and Tim Motes (phonetic) who is also here. To  
16 properly establish a working group to really  
17 focus our efforts on a better version of the  
18 State of the Aquifer Report, we established a  
19 system consisting of a similar cross section of  
20 groundwater professionals. This time we added  
21 a couple of people and the irrigation industry,  
22 as well as community and environmental  
23 organizations. So we had about 11 or 12  
24 members, I believe we met twice over the course  
25 of the summer, and the working group ultimately

HEARING

1  
2 decided on content and the format. The format  
3 we came up with was to have several reoccurring  
4 topics that would appear in all State of the  
5 Aquifer Report updates in the future that way  
6 we can provide a year-to-year continuity and  
7 track progress in those areas, and one featured  
8 topic that can change each year what will be  
9 based on what is newsworthy and what is the hot  
10 topic that year in the water industry.

11 So for State of the Aquifer Report this  
12 year, we will be talking about the following  
13 reoccurring topics and appear in all future  
14 reports, hydrologic condition for Nassau and  
15 Suffolk Counties that was part of last years  
16 report, so a less intense or similar version of  
17 that is included this year. Groundwater  
18 quality, we talked about removing contaminants,  
19 as well as the update to the Grumman plume and  
20 the cleanup efforts for it. The groundwater  
21 monitoring efforts, we realize that government  
22 agencies in Nassau and Suffolk do a lot  
23 (inaudible) monitoring, so we felt like it  
24 would be a good idea to highlight that in this  
25 and future State of the Aquifer Report and then



HEARING

1  
2 groundwater pumpage, that's a manifestation of  
3 the State of the Aquifer, how much pumpage  
4 occurs. Karen Gomez and Jennifer Pilewski of  
5 the New York State DEC and then conservation  
6 initiatives as well like water supplies have  
7 begun to really -- well, have begun  
8 conservation initiatives to intensify during  
9 the summer and highlights four of those  
10 initiatives and then we are going to put a  
11 section (inaudible) significant LICAP  
12 achievement Our Water Our Lives campaign, as  
13 well as the Groundwater Management Plan, we  
14 will talk about that in greater depth towards  
15 the end of the presentation.

16 And the key features here is 1, 4 dioxane  
17 has been gaining a lot of press, a lot of  
18 effort and suppliers and government agencies  
19 and Newsday on 1, 4 dioxane at least in part.  
20 That is going to be the subject of this year's  
21 State of the Aquifer Report.

22 So 1,4 dioxane we devoted about six or  
23 even pages of it to the very beginning of the  
24 state of Aquifer Report focusing mostly on the  
25 history and the occurrence of 1, 4 dioxane in

HEARING

1  
2 groundwater as well as the health risks of 1, 4  
3 dioxane poses also some treatment strategies  
4 that are being implemented by water supplies  
5 and we also focused on the lengthy process  
6 that's involved in taking treatment system from  
7 concept to completion, it's a pretty long  
8 process of planning and testing, things like  
9 that, you can see on the lower way of the  
10 picture on the screen shows that is an advanced  
11 oxidation reactor that the Water Authority has  
12 at one of its pump stations. You will see a  
13 lot of those in the next five years or so.  
14 They are quite costly and require a lot of  
15 effort, manning, et cetera. So we focus on  
16 that as well as the cost. The cost will be  
17 significant, the water suppliers and consumers  
18 in the next few years, so we devoted a good  
19 section of the future to that.

20 Hydrologic conditions, basically there's  
21 three aspects of hydrologic conditions,  
22 precipitation, groundwater levels and  
23 streamflows. So precipitation is focused on  
24 the Islip Airport precipitation station. I put  
25 this chart so that you can see on the picture

HEARING

1  
2 in last years's State of the Aquifer Report.  
3 It's one of those situations where the figures  
4 kind of don't quite tell the whole story. That  
5 ten-year period averaged out to pretty much  
6 normal, however, as you can see in the red  
7 numbers there highlighted, these red numbers  
8 indicate a pretty significant deficit in six of  
9 those years and two years here also that show a  
10 surplus 2011 and 2014, but that surplus is  
11 attributed to one specific storm in each of  
12 those years. So in all honesty, there was  
13 about eight consecutive years where it was  
14 pretty significant below the normal  
15 precipitation throughout Long Island and the  
16 water levels and streamflows decline and  
17 groundwater levels decline as well. So now  
18 that all sort of reverses itself in late 2017  
19 and we have gotten a lot of precipitation since  
20 that time. You can see the calendar year of  
21 2018, there was almost 18 inches above normal  
22 in precipitation. In this specific report I  
23 started gathering the data in late September,  
24 early October so I focused more on the  
25 September to August time period and in those

HEARING

1  
2 two years, those two September to August time  
3 periods since 2017, we have seen a continuation  
4 of that significantly high additional rainfall,  
5 10 to 20 percent above normal. As you might  
6 expect, streamflows and water levels have  
7 responded the way you would expect. We started  
8 off with a record here in the beginning of 2017  
9 pretty low below normal and in this particular  
10 graph you see the two sets of lines, the orange  
11 one is longterm average flow as it fluctuates  
12 throughout the seasons, it's higher in the  
13 spring and lower in the summer and the red line  
14 is the measure of the discharge from USGS gauge  
15 and that has fluctuated, as well and you can  
16 see it was pretty much below normal until the  
17 early part of 2018 and then responded to the  
18 precipitation by recovering to normal levels,  
19 and then probably about the earlier part of  
20 2019 way, way above normal for quite some time  
21 and since about the spring it's returned to  
22 normal levels of precipitation.

23 There's three different gauges that we  
24 took a look at in the State of the Aquifer  
25 Report. You have Massapequa Creek, Connetquot

HEARING

1  
2 River, Peconic River. They represent three  
3 different levels of representation throughout  
4 Long Island, Connetquot River being right in  
5 the middle, Peconic in the east. That's the  
6 one I put into the presentation. All three are  
7 mentioned in the State of the Aquifer Report.  
8 Groundwater levels have seen a similar  
9 recovery. This is two hydrographic upper  
10 glacial wells and Magothy in Suffolk. You can  
11 kind of see the pattern of recovery. It was a  
12 pretty significantly low period around 2002,  
13 2003 and then explanatory high period around  
14 2010 and then 2017, 2018 low recovery, pretty  
15 good recovery since then. So we have had about  
16 six to eight feet of recovery in both of these  
17 wells in Suffolk County since 2018, 2017 rather  
18 Nassau County has shown a similar pattern and  
19 recovery and possibly this specifically Magothy  
20 recovery was a little later and then subsided.  
21 That can be conditions in the vicinity of that  
22 specific well or maybe overall renewal  
23 conditions, not 100 percent sure, but again,  
24 bottom line is significant recovery occurred  
25 from the 2017, 2018 lows.

1 HEARING

2 One of the more interesting water quality  
3 issues this year has been the Northrop Grumman  
4 plume. In June of 2019, the DEC released their  
5 proposed record of decision, as well as detail  
6 on enhanced investigation and a proposed  
7 remedy. They have an updated plume map and  
8 this was the website that I utilized to get  
9 most of my information. There's links to  
10 documents dated back 10 or 15 years. It's an  
11 excellent website to get any and all  
12 information on the Northrop Grumman plume. We  
13 have a handout in the lobby that shows these  
14 two pages. Again, the summary of the expanded  
15 investigation and the proposed remedies really  
16 detail, so it's a comprehensive look at the  
17 history, past history, and the future of the  
18 Grumman site.

19 Pumpage is an important aspect of the  
20 State of the Aquifer. I was able to get the  
21 information from the DEC, Nassau County and  
22 Suffolk County supply pumpage. Nassau I refer  
23 to the last seven years or so, shown an average  
24 of about 185 million gallons a day in that  
25 period, but it does vary as you might have saw.

HEARING

1  
2 The blue bars rather show nonpeak season  
3 pumpage from October to about April. The red  
4 bars show the peak season pumpage from May to  
5 September and you can see there's a big  
6 disparity. It's doubling of pumpage from  
7 offseason to peak season, but it's not as a  
8 response to the precipitation, it's a leveling  
9 off of pumpage from a high (inaudible) 2016 to  
10 (inaudible) of level off slightly decreased  
11 since that time and the bottom graph does show  
12 the relationship and precipitation as you might  
13 expect as one goes up, the other goes down with  
14 the increased precipitation.

15 Lawn sprinkling has decreased somewhat so  
16 the peak summer pumpage decreased. Suffolk  
17 County 227 million gallons a day, a little  
18 higher in Nassau and in the seasonal  
19 (inaudible) it's more like a tripling of  
20 pumpage from offseason, the peak season and,  
21 again, the leveling off from the 2015 to 2016  
22 peak to now due largely in response to  
23 precipitation. Increase in precipitation has  
24 caused people to back off on irrigation over  
25 the last couple of years. That relationship is

HEARING

1  
2 just part of the scenario giving the largest  
3 water use in the summer is typically sprinkling  
4 you would expect with the precipitation is  
5 higher in the summer water use a little lower.  
6 Along those lines we did talk a lot in the  
7 State of the Aquifer Report we highlighted the  
8 efforts of Port Washington and their Be Smart,  
9 Be Green, Be safe 15 plan, 15 being a reference  
10 to the DEC's request for water supplies to cut  
11 15 percent off of their peak season pumpage, .  
12 So there's a lot of information on that for  
13 Port Washington.

14 Roslyn initiated Save 2 Minutes program  
15 to incentivize off of each zone of their  
16 irrigation to save you water that way. On the  
17 bottom of the picture, New York American Water,  
18 they have a control program. There's a video  
19 online. It's not linked on the presentation,  
20 but there's a video explaining (inaudible) and  
21 the Water Authority -- we highlighted the Water  
22 Wise Program. That's a program where we can  
23 actually send a person to your house, take a  
24 look at your water use, sprinkler use, shower  
25 use, toilets, et cetera, recommend ways that



HEARING

1  
2 you can curtail your water use and use water  
3 more efficiently, as well as quality rebates  
4 for installing some water use fixtures, low  
5 water use fixtures.

6 That brings us to noteworthy LICAP  
7 achievements for 2019. We hired a firm, a  
8 public relations firm, called Affirm to develop  
9 this program to help with this program.

10 There's a website here [OurWaterOurLives.com](http://OurWaterOurLives.com)  
11 drives a public education campaign a year  
12 towards conservation. One of the interesting  
13 features of it was that it went one step  
14 (inaudible) -- by virtue of an online pledge,  
15 we got over 3,000 pledges as of October. We  
16 would have been quite happy with 1,000 people,  
17 but we got over 3,000 people to take this  
18 online pledge. If you go to Our Water Our  
19 Lives website, check on that greenfield there.  
20 This pledge form comes up and there are ways to  
21 check boxes and different ways to conserve  
22 water and then sign up with an e-mail alert and  
23 things like that. So it really keeps people  
24 informed and a little bit more of a personal  
25 involvement in the (inaudible) --

HEARING

MS. REPORTER: I can't hear you.

MR. COLABUFO: The noteworthy LICAP achievements, number one, is the Our Water Our Lives campaign. That's public information on the conservation campaign. We hired a firm called Affirm to help foster this, as well as our own people and the Water Authority to foster the project along. One of the more significant aspects of it was an online pledge form that people could fill out. If you go to the -- this is the topline of the website to click on that greenfield and the online form comes up and you can get involved by clicking different ways that you can pledge to conserve water. So it was a good way of fostering the public's involvement in getting different information, a campaign you can actively participate in.

The other noteworthy LICAP achievement for 2019 was the Groundwater Resources Management Plan, H2M Architects and engineers that have been working on it for a little over a year. It's just about finalized. The culmination of about a five-year process that

HEARING

1  
2 began back in 2014 and, again, like a lot of  
3 this was produced as a result of volunteer  
4 efforts of existing practitioners within the  
5 groundwater industry. The plan identifies  
6 threats to groundwater on Long Island and  
7 potential damage caused by those threats. It  
8 assesses the adequacy of existing programs and  
9 creates an implementation in the plan called  
10 rolls and statements.

11 The two subcommittees that were formed  
12 initially with LICAP sort of fostered the whole  
13 plan at least at the very beginning. The water  
14 resources used I had the pleasure of chairing  
15 that one. Water Resources Opportunities  
16 Subcommittee was chaired by Bill Merklin of  
17 Dvirka and Bartilucci Engineering and the  
18 subcommittees, as I mentioned earlier, back in  
19 September of 2019 the meetings were attended  
20 by, again, a large variety of existing  
21 practitioners within the Long Island  
22 groundwater field and the subcommittee members  
23 and the attendees ultimately determined the  
24 content of the Groundwater Management Plan and  
25 the subcommittee members, along with their

HEARING

1  
2 report writing group, authored 17 reports that  
3 all served as the foundation for the  
4 Groundwater Management Plan. The Water  
5 Resources Infrastructure Subcommittee focused  
6 on the longterm water resource oriented topics  
7 and the Water Resources Opportunities  
8 Subcommittee was more short term facilities  
9 oriented topics and reports of those  
10 subcommittees have been added to or apart of  
11 the final Groundwater Resources Management  
12 Plan.

13 Now, back in late 2017, LICAP adopted an  
14 interim Groundwater Management Plan. We did  
15 some public presentations on that in March of  
16 2018, as I recall. We sent out an RFP to  
17 finalize that plan back in June of 2018. It  
18 was awarded to H2M in October of 2018 and there  
19 were a few modifications and alterations that  
20 were necessary to address the change in  
21 concerns and as well as information gaps that  
22 were found within the subcommittee reports.  
23 For one, we added five additional  
24 recommendations. H2M put in this  
25 recommendation matrix. The subcommittee

HEARING

1  
2 reports were also included as the final plan,  
3 as well as a report on the feasibility of New  
4 York City Water Supply for Long Island. There  
5 was an excellent report I believe done by Brian  
6 Schneider on Queens wells reactivation that was  
7 included in the interim plan. Given the change  
8 in landscape, we felt we needed to supplement  
9 that with a feasibility report from the surface  
10 water reviews. Again, a report on private  
11 wells in Suffolk County and an enhanced report  
12 and regional contamination events and then  
13 finally figures and graphics were added for  
14 better readability.

15 Probably one of the more significant  
16 things that came from the Groundwater Resource  
17 Management plan was the 143 recommendations  
18 that came out as a result of the 17  
19 subcommittee reports. They were ranked by  
20 LICAP voting board members in an A, B, C  
21 format, A being immediate and most important.  
22 As of the interim plan, we had 15  
23 recommendations that made the A list. We had 5  
24 additional recommendations as part of the final  
25 plan. Ultimately, we ended up with 20 of the

HEARING

1  
2 most important recommendations and they were  
3 assembled in this matrix format. The matrix is  
4 one of the handouts. It's available in the  
5 lobby and the matrix identifies specific  
6 stakeholders, interested parties as well as  
7 cost estimates, time implementation estimates  
8 and also a summary of the challenges and  
9 hurdles that may be involved in implementing  
10 some of the recommendations.

11 So we ended up with a very comprehensive  
12 look at the water situation on Long Island and  
13 going forward where we should best focus our  
14 efforts on. So an excellent job on H2M in  
15 encapsulating the main issues in the  
16 groundwater industry going forward.

17 Public comment will be available on both  
18 the State of the Aquifer Report and the  
19 Groundwater Management Plan until January 17th  
20 and then the final plan and the final State of  
21 the Aquifer Report will be voted on in late  
22 January or adopted in late January at a LICAP  
23 meeting event.

24 I will leave the slide up to see the  
25 addresses, phone numbers and whatever else you

1 HEARING

2 need to submit public comments. If you don't  
3 do it tonight, you can do it by mail, e-mail or  
4 phone or later on. With that, I will turn it  
5 over to Jeff for whoever wants to make a public  
6 comment.

7 MR. SZABO: Thank you, Mr. Colabufo. We  
8 appreciate it. Any question or comments from  
9 commission members? What we will do then is go  
10 into public speakers. I have a couple of cards  
11 up here. The first person requesting to speak  
12 is Michael Nuler (phonetic) Plainview Water.  
13 Is Mr. Nuler here?

14 MR. NULER: I'm not exactly from the  
15 Plainview Water District. I am a resident of  
16 the Plainview Water District. I live six  
17 houses away from the main office. I've lived  
18 in Plainview for 26 years and within those 26  
19 years for the last 17 and a half years I have  
20 been battling cancer, metastasized cancer. I  
21 just have a couple of quick questions.

22 In giving the additional two to three  
23 years to begin temporary 1, 4 dioxane removal,  
24 what is being done to address and explain what  
25 to do for expecting women, nursing mothers,

HEARING

1  
2 babies children and people with compromised  
3 immune systems like me? Now, my surgeons at  
4 Sloan Kettering suggested that I don't drink  
5 the water. So for months now my wife and I  
6 have been purchasing bottles of Poland Spring  
7 water. Next -- and this is in no order. It's  
8 just me rambling -- monthly water analysis  
9 reports for only the toxic and carcinogenic  
10 chemicals including the possible carcinogenic  
11 chemicals too, that would be important for  
12 every single resident. I don't care what water  
13 district you are from, but especially for the  
14 people that are pregnant, the nursing mothers,  
15 you know, babies and compromised immune  
16 systems.

17 Now, the Plainview Water -- in the last  
18 eight months, I have been the only resident to  
19 attend those Tuesday night -- actually,  
20 afternoon meetings, the only one, but the  
21 Plainview Water District is not as open or  
22 transparent as they must be for their residents  
23 who consume the Plainview Water District  
24 products. There's a lot of old people, there's  
25 a lot of new couples coming in with babies.



HEARING

1  
2 It's a bouillabaisse of people like in Suffolk  
3 and Nassau County. No report concerning any  
4 and all soil contamination from the excavation  
5 pit being dug for the AOP reactor. Now, this  
6 pit, from what I understand, has gone down 40  
7 feet and I know based on the decades we have  
8 lived in Plainview that there was industrial  
9 area in Plainview that was just dumping stuff  
10 into the ground and there was a lawsuit a long  
11 time ago that said they were worried about  
12 those contaminants reaching well number 1,  
13 which is at the Plainview Water main office,  
14 but in the conventional wisdom of the day at  
15 the time the lawsuit happened, the geologist  
16 and everybody else said that it would take 26  
17 to 30 years for that contaminate to possibly  
18 reach that well. Guess what? The time is now  
19 and no reports have come out as to what has  
20 taken place, including at the four corners of  
21 Old Country Road and Manetto Hill Road. There  
22 used to be four gas stations, three of which  
23 were leaking gasoline into the ground and they  
24 have since closed up. They are no longer  
25 pumping gasoline.

HEARING

1  
2 Next, it seems to me and others it is  
3 much more important to cleanup our potable  
4 drinking water as opposed to spending taxpayer  
5 money on parks, schools and et cetera. We all  
6 need water to live and yet, you know, more  
7 money is being spent on schools, on parks on  
8 all kinds of stuff that is nice to have as  
9 opposed to need to have. I fear that at the  
10 rate we are going, our only source of potable  
11 water, the aquifer is going to be so polluted  
12 and so expensive to clean it up on a temporary  
13 basis, because that's all we are doing, that  
14 our homes and our properties and the tourism  
15 industry will evaporate.

16 No 1, 4 dioxane or any other household  
17 product enters into our groundwater if the home  
18 is connected into the public sewer systems.  
19 Only those still using cesspools, septic tanks  
20 are dumping their human waste, including toxic  
21 and carcinogenic chemicals directly into the  
22 ground where it eventually goes into our  
23 aquifer. Now, the reports that I have seen  
24 from all the agencies said that about 20  
25 percent of the homes in Nassau County all on

HEARING

1  
2 the North Shore are still using cesspools,  
3 leaching fields and septic tanks in various  
4 stages of repair or disrepair. On the other  
5 hand, Suffolk County has admitted that only 23  
6 percent of all of their buildings, homes,  
7 condos, co-ops, everything, 23 percent are  
8 connected into sewer systems and the other 70  
9 some odd percent are still dumping stuff into  
10 cesspools, leaching fields and septic tanks.  
11 Then we wonder, wait a minute, why is the water  
12 that we are drinking have all of these  
13 contaminants, why are the shellfish and some of  
14 the regular fish dying off, because the aquifer  
15 is actually finally telling us all, enough is  
16 enough. We have to start understanding the  
17 importance of our only source of water and  
18 that's the aquifer, no other place.

19 You know, we can keep building all of  
20 these exotic AOP reactors if that's what they  
21 are called, but that's only a temporary fix.  
22 They are not addressing the actual problem to  
23 stop all these toxins and carcinogens from  
24 entering the water and like any Boy Scout would  
25 know, if you are going to build an outhouse,

HEARING

1  
2 don't do it north of where you are living and  
3 how the river or the stream flows because  
4 eventually everything you are going to dump  
5 into that stream, creek, aquifer, is going to  
6 eventually creep down to where you are actually  
7 living and I'm telling you that all of these  
8 places up in the North Shore that are still  
9 using antiquated sewer systems, it's all coming  
10 back down into areas like Plainview that are  
11 spending millions of dollars trying to cleanup  
12 the water that is just being pumped. Whatever  
13 is not being pumped and cleaned, that same  
14 water is going further down the stream of the  
15 aquifer and into Suffolk County as well, and  
16 they contribute even more contamination to it  
17 because of the amount of non-sewered buildings  
18 that they have.

19 I created the website Plainview water,  
20 water everywhere nor any drop to drink. I urge  
21 you to let's start thinking about not next  
22 month, not next year, not in ten years, but  
23 what is this island going to be like in 20, 30,  
24 40 years if we are just addressing the cleanup  
25 of the water that we are pumping, not the rest

HEARING

1  
2 of it that's coming down the pipe. I thank you  
3 very much for listening to me. I appreciate  
4 it.

5 MR. SZABO: Thank you very much,  
6 Mr. Nuler. We appreciate your comments. My  
7 heart goes out to you for battling cancer.  
8 Thank you for coming and speaking today. We  
9 appreciate it and best of luck with your battle  
10 against cancer.

11 MR. NULER: I have cancer, I just had a  
12 hip replacement a year ago that's not going  
13 well, I now have prostate cancer and I have  
14 what's known as husband ear.

15 MR. SZABO: Just a couple of points. I'm  
16 not a health expert. I cannot speak to the  
17 health effects of 1, 4 dioxane. I leave that  
18 to the New York State Health Department and  
19 others. I would, you know, suggest that you  
20 look at comments on the EPA's website related  
21 to 1, 4 dioxane and exposure to it and health  
22 effects and also encourage you to read Governor  
23 Cuomo's own comments about the compound. Just  
24 to your point about bottled water, consumer  
25 reports just I think last month issued a cover

HEARING

1  
2 story comparing municipal water with bottled  
3 water and municipal water looks very good  
4 compared to bottled water. Most people I think  
5 I used the term has been the greatest marketing  
6 campaign in the last 30 years, the bottled  
7 water companies, you know, convincing the  
8 public that it's all coming from a pristine  
9 pure source somewhere in Colorado and that's  
10 just not the truth. One, the drinking water is  
11 regulated by the EPA and bottled water is  
12 regulated by the Food & Drug Administration.  
13 It's not as rigorous as our standards for sure.

14 In fact, the Suffolk County Water  
15 Authority in the next month or so plans to do a  
16 study, an analysis of what's in bottled water  
17 compared to what we test for and what's in the  
18 municipal drinking water in Suffolk County and  
19 it's going to make those results available. I  
20 think the public will find it very interesting  
21 and just last point, the 1, 4 dioxane, we  
22 completely agree, at least from my perspective  
23 as the CEO of a very large drinking water  
24 supplier, we didn't put it there. Our job is  
25 to clean it up and make sure it doesn't get out

HEARING

1  
2 to the public and we are trying to do that, but  
3 we have also been extremely aggressive  
4 navigating the prohibitions of the products  
5 that contain 1, 4 dioxane and I believe I just  
6 checked with Chris Ostuni, counsel to the  
7 legislature in Nassau, I believe Governor Cuomo  
8 just recently signed legislation that was  
9 passed by both the state senate and the state  
10 assembly this last legislation session that  
11 would band products I think by 2022 or 2024,  
12 I'm not sure of the specifics off the top of my  
13 head, but there are steps we are taking to  
14 removing it from allowing it to get into the  
15 aquifer.

16 MR. NULER: With all due respect and I  
17 address this to the commissioners back at the  
18 Plainview Water District that aren't here, but  
19 they know me well enough and I'm sort of  
20 referred to as the pita, the pain in the -- you  
21 can figure out the rest. The issue with  
22 bottled water -- and because I have not been  
23 able to work in 17 years, I have a lot of time  
24 on my hands and so it's me and Google and  
25 Google and me forever and with all the research

1 HEARING

2 that I have done, if you look at bottled water  
3 from the biggest bottling company in the United  
4 States, all right, which is Nestles, all right,  
5 they have several different products and at the  
6 top of their list is Poland Spring and also  
7 something that's called Pure. So I did the  
8 research on both and it turns out that the Pure  
9 water goes through the exact same process that  
10 we are now drying to do with the AOP machines  
11 that they have been doing for a long time.

12 They issue reports on all of their water  
13 to the nth degree. Similar to what I had to  
14 pay for in order to get the water analysis  
15 report from the Plainview Water District. You  
16 can get that right on the internet from Nestles  
17 for each and every one of their particular  
18 products, all right. In terms of what you said  
19 about the EPA versus -- what was the other  
20 agency you mentioned.

21 MR. SCHNEIDER: Food & Drug  
22 Administration, FDA.

23 MR. NULER: Yes, the Federal Drug  
24 Administration. Enlight of all the delays and  
25 years that it's taken the EPA to come up with



HEARING

1  
2 addressing the issue and the standards for  
3 which we are now scrambling, to me, I would  
4 sooner take all of the information from the  
5 Federal Drug Administration than the EPA.  
6 Somebody at the EPA is literally, I feel,  
7 dragging their feet. So each one of us has to  
8 make up our own decisions, but we can only make  
9 those decisions if and when we are afforded the  
10 information that we need and we can't get that  
11 information from the water districts unless you  
12 pay for it. Why should we have to pay for it?  
13 They get it --

14 MR. SZABO: Sir, you know, not to  
15 interrupt, but all the drinking water providers  
16 are required to supply their testing results in  
17 an annual water quality report, which should be  
18 accessible in their office and should be  
19 accessible from their website for free and what  
20 we did a couple of years ago, this may be four  
21 or five years ago, we started putting all the  
22 drinking water provers and Nassau and Suffolk  
23 County started putting all of the drinking  
24 water results on LICAP's website. So you can  
25 actually go and type in a particular compound,

1 HEARING

2 a level that you are searching for, you can  
3 look at a particular district, you can look at  
4 distribution samples. There is a ton of  
5 drinking water quality yearly, broken down by  
6 year, broken down by water district that's  
7 available to the public.

8 MR. NULER: But it's not available, for  
9 example, monthly or quarterly. It's available  
10 yearly. The other point with all this is that  
11 if you take, for example, 1, 4 dioxane and I  
12 don't know carbon tetrachloride, I don't know  
13 whatever is in our water and you analyze all of  
14 the different ingredients individually, you  
15 come up with individual reports on the toxins,  
16 carcinogens and minerals and everything else  
17 independent of one another.

18 What happens in real life is that you go  
19 for that glass or cup of water and you drink  
20 the entire bouillabaisse, the entire cocktail,  
21 you are not separating out all the different  
22 minerals and the toxins and the carcinogenic  
23 chemicals. There's an old thing in the back of  
24 my mind that says the hole is greater than the  
25 sum of its parts. When you begin to put all of

1 HEARING

2 these chemicals into one cup and drink it, does  
3 the combined amount and toxicity of each  
4 chemical become more potent when they are all  
5 mixed together. I don't know. I'm not a  
6 scientist, but it would seem to me that's how  
7 we have to start looking at the stuff as one  
8 whole unit, not individual pieces of it.

9 MR. IRWIN: Sir, I'm from the Department  
10 of Health of Nassau County. So we regulate the  
11 Plainview Water District and I would like to  
12 talk to you more about this if you are here at  
13 the end of the hearing and I will come down and  
14 we can have a direct conversation and perhaps I  
15 can provide some information that might be  
16 helpful to you.

17 MR. NULER: As long as you are not going  
18 to yell at me and tell my wife. I'm in enough  
19 trouble. I'm here for you, I'm here for us  
20 all.

21 MR. IRWIN: I would like to try to help  
22 you understand what our role is and where you  
23 might be able to get more information.

24 MR. NULER: Thank you very much.

25 MR. IRWIN: You're welcome.

1 HEARING

2 MR. SZABO: Thank you. Our next speaker  
3 is Richard Passariello, Chairman of the Long  
4 Island Water Conference.

5 MR. PASSARIELLO: Good afternoon. My  
6 name is Rich Passariello. I am the chairman of  
7 Long Island Water Conference, I'm also the  
8 superintendent of Roslyn Water District. Thank  
9 you for holding this important hearing and  
10 providing me with the opportunity to speak. On  
11 behalf of the Long Island water supplier, I  
12 would like to thank the members of LICAP. Its  
13 leadership and all those who put the time and  
14 effort into compiling these bio reports. The  
15 amount of knowledge and care devoted to  
16 creating these comprehensive documents is  
17 impressive and this document will greatly  
18 impact the direction and attention paid to  
19 protecting our aquifer. You should all feel a  
20 great sense of pride in this work and what you  
21 have accomplished on behalf of the nearly 3  
22 million Long Islanders who rely on this  
23 precious natural resource each and every day.

24 I would also like to applaud the  
25 membership for staying on a course that makes

1 HEARING

2 recommendations and drives policy changes based  
3 on sound, science and research rather than a  
4 motion. At a time when we all too often see  
5 politics influence policy, your unwavering  
6 commitment to making fact based conclusions is  
7 not only refreshing, but it's crucial.

8 Knowledge is power, data is the building  
9 blocks to getting there. Long Island's water  
10 supply and its drinking water will forever  
11 benefit from the course of corrections and  
12 proactive measures laid out in your water  
13 management plans, we thank you once again for  
14 your commitments to protecting Long Island's  
15 Aquifer, as well as the vision to ensure its  
16 sustainability in the future. Thank you.

17 MR. SZABO: Thank you very much. We  
18 appreciate it. The final card I have up here  
19 is from Mike Dwyer, Levittown, New York.  
20 Hello, Mr. Dwyer.

21 MR. DWYER: Mike Dwyer, Levittown, New  
22 York. I'm also a member of the Irrigation  
23 Association of New York and I have also been  
24 available and helped on a lot of some of the  
25 LICAP things and the one thing that I have

HEARING

1  
2 noticed and I really have liked is what the  
3 eyeopening experience it has been for me.

4 We use water, that's part of our  
5 business, the irrigation business, but to find  
6 out how much we are using and how we can assist  
7 to help the water districts come in compliance  
8 help the counties when they come out with  
9 ordnances to make sure we get the information  
10 out there to everybody, it is a good thing. I  
11 really do like LICAP. I think it has allowed  
12 me to inform the irrigation board a lot better  
13 on what's going on and upcoming things because  
14 you are looking down the road. You are not  
15 reacting, you are trying to plan ahead and  
16 planning ahead is how we stay ahead of things  
17 and make sure that the public is knowing what's  
18 going on and then we are ready for things  
19 coming. So I do applaud the board. I do like  
20 LICAP and I do think it's good for everybody.  
21 Thank you for your time.

22 MR. SZABO: Thank you very much,  
23 Mr. Dwyer.

24 That's the last card as I mentioned. Is  
25 there anyone else who would like to speak? If

HEARING

1  
2 so, please approach the podium and state your  
3 name for the record.

4 MR. KOSINSKI: Michael Kosinski. I'm one  
5 of the commissioners of Roslyn Water District.  
6 I didn't expect to speak, but I kind of  
7 reviewed the document, which I think is the  
8 best thing I have seen in 20 years. We really  
9 need it and how it's wonderful. The unsewered  
10 areas, in our particular district, there's  
11 enormous growth now. Houses are coming down,  
12 they are rebuilding them. The new types of  
13 septic systems they are not happening in Nassau  
14 County, they are beginning to happen in Suffolk  
15 County. We need -- we are at the top of  
16 water -- it was referred to by another person,  
17 we are getting -- we are losing the opportunity  
18 to put them in and stop this slow migration of  
19 the nitrates out into the watershed and through  
20 the watershed. So that's one piece.

21 The irrigation law Nassau County has it's  
22 obsolete. It totally does not help us at all.  
23 We were forced to move into a system where we  
24 gave by neighborhood a time slot to irrigate so  
25 technically we were in violation of the law.

HEARING

1  
2 We made everybody do it, but that's the only  
3 way we can survive. We have to start thinking  
4 about that law. Being we have no policy power,  
5 there's no way to have somebody -- you are not  
6 going to call a cop to have somebody turn your  
7 water off. How this all impacts, impacts those  
8 peak times when we have to irrigate all summer  
9 long.

10 If it's a dry summer, we are pumping like  
11 crazy. You guys know that. Save 2 minutes,  
12 that was after we really had our problems when  
13 we already put in place the change in having  
14 people irrigate by neighborhood. We relaxed  
15 our stance on having everybody be forced to  
16 have a time slot. What we did was go to  
17 contractors, irrigation contractors, and  
18 hammered them and said don't touch the clocks  
19 because we want everybody to still stick with  
20 the time, but as a PR piece we came up with the  
21 Save 2. It really doesn't do the job as well  
22 as making sure the irrigation contractors don't  
23 touch the clocks and that's what everybody  
24 needs to do in all of Long Island because we  
25 are now being faced with this idea of multiple



1 HEARING

2 story housing. Our infrastructure was built  
3 not to take that kind of capacity. So when  
4 people are coming in, we are seeing with the  
5 demands that those people will be giving us,  
6 you know, low pressure is popping up in other  
7 areas of the district.

8 That's just a piece of information, which  
9 you probably already know that a lot of these  
10 communities and a lot of these districts are  
11 technically built out already. We are maxed  
12 out on the water capacity. We gotta save,  
13 where are you gonna save it. The only way to  
14 save it is irrigation because it's irrigation,  
15 irrigation, irrigation. That's where any of  
16 the water is going to be. Thank you.

17 MR. SZABO: Thank you very much.

18 Sir, yes, please come up and identify  
19 yourself.

20 MR. RIGANO: Chairman Szabo and members  
21 of LICAP, my name is Nicholas Rigano. I am the  
22 chair of the Environmental Association and for  
23 the Nassau County Bar Association and I also  
24 co-chair for the Water Quality Committee for  
25 the New York State Bar Association.

HEARING

1  
2 Preliminarily, these reports are truly  
3 wonderful. LICAP did a great service to all of  
4 Long Island by producing these. Thank you very  
5 much. You all should be applauded. In  
6 addition, I would just like to offer my  
7 services at any point in time. If there is  
8 anything the Bar Association can do or myself  
9 personally for LICAP, I would be more than  
10 willing to help out in any way.

11 I come here today really to talk about  
12 Task 3B of the Groundwater Resources Management  
13 Plan. An incredible job, incredible report,  
14 significant data and information in there for  
15 all of Long Island. That's a section of the  
16 Groundwater Resources Management Plan that  
17 discusses the feasibility or potential  
18 feasibility of using New York's water supply  
19 for Nassau County. The report is clearly a  
20 preliminary report and I come to you today with  
21 a, I guess, it's called a proposal. I think  
22 the next step should be taken and I think  
23 should be taken immediately. I have been  
24 working very closely with many stakeholders. I  
25 actually went to Senator Kaminsky two or three

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1  
2 months ago to discuss the idea of York City  
3 water to Nassau, look into and ultimately sent  
4 a letter to the DOH and DEC, which resulted in  
5 an article by Newsday, and I'm sure you are all  
6 aware of the issues surrounding that. Since  
7 that time and really before, I have been  
8 working with many stakeholders and I'm in the  
9 process of obtaining funding, project funding  
10 to do that study and that study would obviously  
11 need all stakeholders input, including water  
12 districts, environmental groups,  
13 municipalities, et cetera and the best way I  
14 can think of to do that is to have this report  
15 done in a model in which I engage in every day.

16 I work very closely with DEC and DOH and  
17 the way that the process works is, for example,  
18 at a super fund site, private parties are  
19 involved, private parties do the work, they pay  
20 for the work and DEC approves the work and the  
21 report that comes out and ultimately a plan  
22 gets put forth in a manner. In a similar  
23 manner what I would propose is this process,  
24 this report, these privately funded stakeholder  
25 inputs under LICAP's oversight, there would be

HEARING

1  
2 no better agency other than LICAP who is  
3 already made up of all these stakeholders to  
4 establish a public comment forum for this  
5 report, and it's my experience enlight of this  
6 model, that it's very, very efficient. It  
7 works very quickly. It alleviates a burden on  
8 governmental emphasis while giving the  
9 government the ultimate -- and here at LICAP,  
10 the ultimate ability to make the last call and  
11 public comment.

12 I propose that and if there's interest in  
13 it, please reach out and contact me. This idea  
14 of having New York City water brought to Nassau  
15 I think would allow the aquifer to heal if it's  
16 ultimately implemented both from a water  
17 quality and also a water quantity perspective  
18 and no means, by the way, is this New York City  
19 idea it's not an effort, I know there's some  
20 concern by the water district to consolidate  
21 Nassau County Water District. That's not the  
22 idea. The idea is to supplement Nassau  
23 County's water supply. There are certain  
24 pockets of Nassau County that have clean water,  
25 and so this would be able to supplement that so

1 HEARING

2 that clean water is provided to the public in  
3 that matter. This distribution system and  
4 wells would still need to be maintained and  
5 used if this is ultimately developed. I  
6 propose that as an idea and look forward to  
7 hearing from everybody. Thank you very much.

8 MR. SZABO: Thank you very much and  
9 appreciate you coming down and your comments.  
10 We will be in touch.

11 MR. OSTUNI: Did you leave your contact  
12 information with the stenographer?

13 MR. RIGANO: I can do that or I have  
14 cards.

15 MR. SZABO: Mr. Wallick, do we have any  
16 additional cards?

17 MR. WALLICK: No more at this time.

18 MR. SZABO: Mr. Schneider?

19 MR. SCHNEIDER: I just wanted to respond  
20 to the previous speaker, Mike Kosinski. So you  
21 had brought up a topic regarding the septic  
22 systems that are currently still in place at  
23 Nassau County, about 20 percent of the  
24 population and even though Mr. Nuler mentioned  
25 something about 20 percent of the population is

1 HEARING

2 still served by individual septic systems,  
3 conversely Suffolk County has about 75 percent  
4 of the population served by these individual  
5 septic systems and you know that Suffolk County  
6 has a very robust reclaim our water program  
7 looking to replace these individual septic  
8 systems.

9 Nassau County is about to launch a  
10 similar system. We received a grant from the  
11 Environmental Facilities Corporation. It's a  
12 relatively small amount of money. It's a  
13 million dollars, which is capped at \$10,000 per  
14 household. So every property owner who is  
15 looking to replace a failing septic system will  
16 apply for a grant through Nassau County, it  
17 will be administered through us and we will  
18 reimburse the homeowners up to \$10,000.

19 Now, the Suffolk County program are  
20 seeing systems on the average of 22 to \$24,000  
21 a piece, plus engineering cost and also  
22 maintenance cost. So that's a significant  
23 outlay for property owners to --

24 UNKNOWN SPEAKER: That's relative. We  
25 are seeing 3 million dollar homes being built

1 HEARING

2 and we are at the top of the pile --

3 MR. SCHNEIDER: Correct, but the bottom  
4 line is that the county will be rolling out  
5 this program. There's a lot of administrative  
6 things that need to be done and we are also  
7 going to be looking around for more funding, so  
8 that the burden of these septic systems, these  
9 innovative alternatives would not be completely  
10 born or at least partly born on the individual  
11 property owner. So look for a rollout in  
12 earlier 2020.

13 UNKNOWN SPEAKER: Can I reach out to the  
14 local villages?

15 MR. SCHNEIDER: We already started  
16 conversations with the Town of North Hempstead  
17 Building Department, the Town of Oyster Bay  
18 Building Department. We will be filtering down  
19 to some of the local municipality building  
20 departments because they ultimately will be the  
21 ones issuing the building permits because  
22 Nassau County does not have a building  
23 department, so we would not be the ones that  
24 would be issuing the building permits to  
25 install these replacement systems.

HEARING

1  
2 UNKNOWN SPEAKER: Can we revise the  
3 (inaudible) --

4 MR. SCHNEIDER: That's a state code that  
5 we would have to change, but again, there's a  
6 definite need to replace these systems,  
7 especially on the North Shore and, you know, we  
8 are happy to get the money from the state EFC,  
9 and we will be looking to roll this out, as I  
10 mentioned, in early 2020.

11 MR. SZABO: Sir, hello. Before you come  
12 back for round 2, we have another individual  
13 who has not spoken yet, John Walts. Mr. Walts?

14 MR. WALTS: I would like to commend LICAP  
15 on the work that it has been doing and  
16 basically reiterate what Richard said. I think  
17 it's the right body to do what's needed to be  
18 done. I think you need to be sustainable. You  
19 need to keep going and keep doing what you are  
20 doing year after year so as conditions change,  
21 it's reflected in your reports. The  
22 recommendations in the matrix are right on the  
23 money to do that. It shows the right funding,  
24 administrative and technical targets to get  
25 this done and the State of the Aquifer Report



1 HEARING

2 is configured in such a way that you can  
3 continue to build on this every year and inform  
4 the Long Island community on the condition of  
5 the water, the quality, the quantity and is the  
6 right steering group to keep this going. Keep  
7 up the good work.

8 MR. SZABO: Thank you very much. We  
9 appreciate the comments.

10 Mr. Nuler, round two?

11 MR. NULER: In my previous jobs, I was a  
12 commercial advertising photographer with a  
13 studio in Midtown Manhattan so I worked on  
14 solving my clients' visual problems, nothing  
15 has changed. It's very expensive to ask people  
16 who are still using cesspools, leaching fields  
17 and septic tanks to like -- okay, we are going  
18 to give you 10,000, but it's going to cost you  
19 an additional \$20,000 to do it right. However,  
20 by hooking everybody up to a sewer system,  
21 specifically Nassau County, I don't know how to  
22 address the problem that Suffolk County has,  
23 but in Nassau County, it's only about 18 or 20  
24 percent of the houses, mainly in the North  
25 Shore. By not doing it, hooking everybody up,

HEARING

1  
2 what is it going to cost Nassau County in terms  
3 of tourism, in terms of restaurants, in terms  
4 of property values. That should be the top  
5 concern. I mean, certainly our tourism on all  
6 of Long Island has got to be bringing in an  
7 enormous amount of money, but the more and more  
8 people see that our beaches are closed, you  
9 can't swim in this water, that water and the  
10 shellfish population has just recently died,  
11 you know, the clams, oysters, whatever, the  
12 fish have beginning to have problems, and  
13 that's all because -- my opinion is that it's  
14 all because a lot of this pollution that's  
15 happening. We can say it's for climate change,  
16 this climate change, but the State of New York  
17 and Albany has to realize or look at this thing  
18 from if we don't work on this now, not  
19 yesterday, but now, immediately, what's going  
20 to happen to the tourism industry next summer,  
21 next spring or the year after that. That's a  
22 huge problem and the amount of money that we  
23 will probably lose as a result could have  
24 actually paid for the sewers to be installed.  
25 Okay. Thank you. Thank you very much for

HEARING

1 listening to an old man.

2  
3 MR. SZABO: Thank you. So we have no  
4 more cards. It is 5:19. What I would like to  
5 do if there's a consensus amongst the  
6 commission is to recess at this point and give  
7 it at least a few minutes maybe until 6:00 or  
8 so to see if there are other speakers who come  
9 in and would like to address the commission and  
10 then we will close the hearing, but we will  
11 take a pause or a recess. If I make a motion,  
12 is there a second?

13 MR. SCHNEIDER: Second.

14 MR. SZABO: Second by Mr. Schneider.  
15 Thank you very much. We are recessed until a  
16 little later until this evening.

17 (A brief recess was taken from 5:19 p.m.  
18 to 5:49 p.m.)

19 MR. SZABO: If I can just have everyone's  
20 attention, it's 5:50. We are back in session.  
21 Is there anyone from the public who would like  
22 to address the commission? If so, please step  
23 forward and raise your hand. I don't see  
24 anybody, we are going to close this hearing at  
25 5:50 in Mineola. The third and final LICAP

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public hearing for the year will be tomorrow  
afternoon at the William Rogers Legislature  
building in Hauppauge. Hope to see you there.  
Thanks very much. Good night everyone.

(Time Noted: 5:50 p.m.)

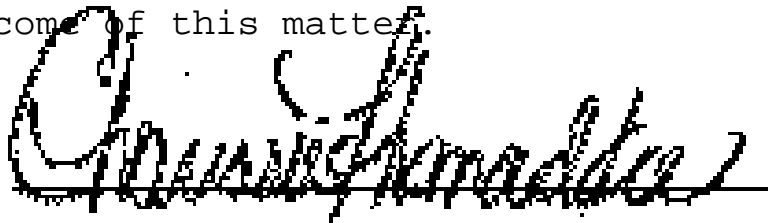
1 HEARING

2 C E R T I F I C A T E

3  
4  
5  
6 I, CHARISSA HROMADKA, a shorthand reporter  
7 and Notary Public within and for the State of New  
8 York, do hereby certify:

9 That the within statement is a true and  
10 accurate record of the stenographic notes taken by  
11 me.

12 I further certify that I am not related to  
13 any of the parties to this action by blood or  
14 marriage, and that I am in no way interested in the  
15 outcome of this matter.

16  
17 

18  
19 CHARISSA HROMADKA

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	20:22	18:2		
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