

**NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP)
BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION
CROTON FACILITY MONITORING COMMITTEE MEETING MINUTES
THURSDAY, DECEMBER 12, 2013 – 7:00 PM**

The Croton Facility Monitoring Committee (CFMC) met on Thursday, December 12, 2013 at the DEP Office, 3660 Jerome Avenue, Bronx, NY 10467.

Welcome

The meeting was called to order by Chair Robert Fanuzzi and started at 7:10 pm. Except for Father Gorman, who had a conflict, all CFMC members either participated or were represented.

Attending - CFMC Representatives – Attachment 1

Hector Aponte, Representative of the Department of Parks and Recreation (DPR); Mr. Fanuzzi, Chair, Community Board # 8; Adaline Walker-Santiago, Chair, Community Board #7; Wilhelm Ronda, Representative of the Bronx Borough President; George Diaz, Office of Council Member Oliver Koppell; Shane Ojar, DEP. **Others Attending:** Assembly Member Jeffrey Dinowitz, representatives of the NYC Comptroller's Office, DEP Staff, Construction Manager, members of the press and the public.

Chair's 2013 Wrap-Up Report

Mr. Fanuzzi thanked the CFMC for working to achieve many community benefits during the year. He expressed appreciation for Council Member Oliver Koppell's invaluable contributions, including his insight related to the Croton Uniform Land Use Review Procedure (ULURP), efforts to advance the pedestrian bridge over the Major Deegan Expressway (MDE) and his role in the City Council's oversight of the project. He thanked several of the area's community leaders as well as the staff and members of the three Community Boards who have attended many meetings, in particular recognizing Nicole Stent, Bob Bender, Bob Press and others from Community Board #8. He welcomed Community Board #8's Vice Chair Marie Khoury to the meeting. Mr. Fanuzzi said that many city agencies, including DPR and DEP, cooperated with him and the CFMC during 2013 to address and resolve issues. Mr. Fanuzzi said the chair's transition to Community Board #12's Father Gorman who will chair the CFMC will be a smooth one, and that the landscaping of the golf course at Van Cortlandt Park (VCP) and completion of the jogging path at Jerome Park Reservoir (JPR) should progress well in 2014. While thanking Mr. Ojar for his cooperation and input, Mr. Fanuzzi said that quarterly CFMC meetings are not sufficient to communicate with the community, and he urged DEP to agree to monthly meetings.

Adoption of CFMC Meeting Agenda - Attachment 2

Mr. Aponte requested that the Comptroller's representatives present their report earlier in the agenda. With this change, the meeting agenda was adopted.

Adoption of CFMC Meeting Minutes from September 12, 2013

A motion to accept the June 6, 2013 minutes was made by Mr. Diaz, and seconded by Mr. Ronda. The minutes were adopted.

Public Comments and Questions

Gary Axelbank, area resident, said that in addition to thanking the Council Member and DEP for their cooperation, Mr. Fanuzzi should acknowledge the important role of the community and the public to monitor the Croton Filter Plant. Mr. Fanuzzi agreed, and thanked Assembly Member Jeffrey Dinowitz and the community for their involvement.

Bob Bender, Community Board #8, said that if the golf course concessionaire is to maintain the golf course, the contract with the concessionaire must be amended to state this requirement. He asked if the educational aspects of the golf course program will continue. Mr. Aponte said that because the golf course is in the same location as before construction, no change in maintenance requirements is needed. He said the educational programs will continue. Mr. Aponte said the only questions about maintenance from the concessionaire concerned the green roof because of limited experience maintaining green roofs.

Robert Press, Bronx Press, asked if the Croton Filter Plant start up has started. Bernard Daly, DEP, said it has. Mr. Press said he is therefore concerned about allegations from Robert Solomon there is no fire alarm system at the plant. Mr. Press said he spoke by telephone to Mr. Solomon. Mr. Daly said a fire alarm system is part of the plant construction and is being installed. Mr. Daly said he will address the technical issues from Mr. Solomon's letter as part of his report.

Mr. Axelbank said that an independent body should review Mr. Solomon's allegations. (*Attachment 3* - Mr. Axelbank's written comment.)

Karen Argenti, Bronx Council on Environmental Quality, said DEP's May 8, 2013 letter to the CFMC about electrical issues seems to conflict with Mr. Solomon's letter. She offered Mr. Solomon's letter for the meeting minutes (Letter without various attachments is *Attachment 4*).

Mr. Fanuzzi asked for clarification on the Croton Filter Plant's fire alarm system. Mr. Daly said the alarm system is being installed and is currently in construction. An emergency evacuation plan for construction workers and start up staff has been in place. A permanent system is being constructed. A temporary fire alarm system is not required during construction. Mr. Fanuzzi asked when the fire alarm system installation began. Mr. Daly said it was before Mr. Solomon sent his letter. Mr. Daly said that in any construction project there are always problems to solve and items to fix, and he deals with dozens of these matters every week. Mr. Fanuzzi asked if the NYC Fire Department (FDNY) approves the alarm system. Mr. Daly said yes, and added that FDNY staff regularly visit the Croton Filter Plant and have fully coordinated on and concurred with fire-related aspects of the project.

Mr. Ronda asked what relationship Mr. Solomon has to the project. Mr. Daly said that in 2007 Schlesinger Siemens LLC was awarded two low bid electrical contracts, and Mr. Solomon was a member of the company.

Mr. Fanuzzi said he thought some project delays may be attributable to issues raised by Mr. Solomon. Ms. Argenti said the revised Consent Decree requires DEP to have the plant in operation by 2011. She asked the nature of delays and the amount of fines paid by DEP. Ms. Argenti added that DEP's August press release said that plant operations would start later this year. She said VCP alienation was approved for ten years, and project delays will delay the golf course too. Anne Marie Garti, Jerome Park Conservancy, said the Croton Consent Decree governs the Croton Filter Project and that the US Department of Justice and NYS Department of Health would assess fines for delays.

Mr. Aponte said he is not familiar with Mr. Solomon's issues, and he asked that further discussion related to the Solomon letter be deferred to a future meeting. Mr. Fanuzzi said the matter would be on the next CFMC meeting agenda.

Mr. Bender said DEP should explain the reasons for Croton Filter Plant construction delays. CFMC representatives, will inquire of DEP reason for construction delays.

Anne Marie Garti, Jerome Park Conservancy, spoke about DEP's obligation under a very old DPR permit to restore the area under which the DPR jogging path is currently being constructed along Goulden Avenue.

Dart Westphal, area resident, said that 125 years ago JPR property was taken by NYC and vested. He added that during the past 30 years the community has been faced with impacts from construction, including the JPR dividing wall and other work. In 2014 he hopes there will be an outdoor urban ecology site and other community amenities.

NYC Comptroller's Audit of Croton Funded Parks

Deputy Comptroller for Audits Tina Kim and Jonathan Rubin of the audits office represented the Comptroller's office and presented a summary of the audit (*Attachment 5*). The Comptroller's office and DPR staff said they worked cooperatively and well with each other to fulfill the audit. While the Comptroller and DPR staff disagreed on several points, Mr. Rubin said that most of the Comptroller's recommendations have been or will be implemented. Assembly Member Dinowitz complained that after the \$186 million of Croton-funded parks is spent, there are no more funds to give the community open space to account for all of the community inconvenience during construction of the Croton Filter Plant. Mr. Aponte, David Cerron and Andrew Penzi of DPR explained that some parks projects wound up costing more than was budgeted while others were built for less, with 97% of the program adhering to the allotted budget. DPR said that all of the \$186 million for Croton-funded parks projects will be spent on the parks. Mr. Fanuzzi said that construction delays at some parks projects -- notably the jogging path at JPR -- have been a problem for the community.

There was a short discussion about eight parks projects that the Comptroller and DPR disputed as to their eligibility.

Mr. Rubin said did not have audit information on parks projects that have gone into construction subsequent to the audit. Ms. Kim said the audit information was current to June 2013. Assembly Member Dinowitz thanked the Comptroller's office and said he believes a follow up audit will help ensure that tax dollars are being spent properly. There was a discussion between DPR and the Comptroller's office about the time and effort needed to prepare an audit update. Mr. Ronda said he welcomed the audit and appreciated the cooperation between the Comptroller and DPR. Mr. Diaz said he hopes the Comptroller can provide an update covering the 18 months following the audit and share it with the community during 2014. He thanked Mr. Fanuzzi for his leadership, and praised DPR for explaining the agency's difference of opinion on some of the Comptroller's findings, and for DPR's cooperation.

The Comptroller's office agreed to prepare an update

Mr. Axelbank said the community needs to be vigilant over future government agreements that involve funds and schedules to ensure proper outcomes. Mr. Aponte said that the interagency Memorandum of Understanding in 2004 and the Memorandum of Agreement in 2005 projected "best guesses" on when projects could be completed. He said that it is unrealistic to assume that every project can start construction based on a projected and preliminary schedule.

Ms. Garti said the parks projects were developed to get parkland alienation legislation passed so that DEP could build the Croton Filter Plant. Ms. Garti added that concrete and soil should be removed along the strip of park land between Goulden Avenue and the east perimeter of the reservoir that was used to store materials when trunk mains and the JPR dividing wall were built in the 1980s. Parks permit obligations required DEP to remove the concrete and soil, followed by replanting the area. She advocated removing the concrete and soil now and re-building the jogging path with new soil pursuant to terms of a 1985 DPR permit. Mr. Aponte reminded the CFMC that Community Board #8 reviewed and approved the plans for the jogging path project. [As requested, a copy of the permit reference, provided by Ms. Garti following the CFMC meeting, is *Attachment 6.*]

Tree Replacement for JPR Trees Removed

Mr. Fanuzzi reminded the CFMC that the new trees that will replace trees removed from JPR are to go in the same Community District. He said there has been delay in transferring funding from DEP to DPR for new trees. Mr. Penzi and Mr. Ojar said discussions are currently underway between DEP and DPR officials on the tree replacement details. The funding requested by Mr. Aponte in January 2013 was \$850,000. Mr. Ojar said the current negotiations are productive, and the two agencies are resolving financial details.

Mr. Westphal said DEP often finds ways to punish the community. He said he hopes the new Mayor will change DEP policies and improve DEP's interaction with the community. Assembly Member Dinowitz said the new Administration will indeed assist the community. He said it is not good public policy for a tree to be removed without a plan in effect to replace it. Mr. Fanuzzi asked the two agencies to quickly reach agreement and get the funding transfer underway. He said he will write to the agencies regarding the number of trees to be planted and their cost. Mr. Bender said that tree replacement at VCP should be requested by the CFMC as well.

Advocacy for VCP Pedestrian Bridge over MDE

Mr. Fanuzzi reported that the pedestrian bridge continues to be a high priority in the community. Bridge funding efforts by Community Boards #8 and #12 and Council Member Koppell with the Bronx City Council delegation will continue. He said the new Council Member Andrew Cohen is in strong support. Mr. Fanuzzi reminded the CFMC that the pedestrian bridge feasibility study said the project is feasible. Mr. Fanuzzi thanked Christina Taylor and Mr. Bender for staying in the forefront of the bridge issue. He said that a special day is being planned for communities in Districts #7, #8, and #12 at which the community will join hands across the MDE to show unity and publicize this project.

Mr. Westphal complained that DPR doesn't have a capital budget – all funds come from the legislators. Mr. Aponte said that the Mayor, the City Council and the Borough President are key participants in allocating parks funds. He added that Council Member Koppell and Borough President Diaz have been very supportive and instrumental in funding Bronx parks projects as a priority.

Jogging Path Update

Both Mr. Penzi and Mr. Aponte discussed the status of the path. The contractor is behind schedule but DPR is monitoring the work to make up time. DPR said no one wants to see the contractor defaulted. DPR is working to get the contractor's revised schedule. The project was scheduled to be completed in April 2014.

Most of the work outside Ft. Independence Park is now complete. Landscaping will be underway in the spring. Shortly, the contractor will start work within Ft. Independence Park. In response to Mr. Bender's question, Mr. Aponte said the rest rooms and the playground will be open to the extent possible throughout park construction. Mr. Diaz asked for an explanation of "behind schedule". Mr. Penzi said that paving has been moved to spring 2014. He added that the project may be completed by May or June 2014 – all dependent upon weather conditions.

Mr. Fanuzzi said that DPR should provide regular reports of aggregated spending on Croton-funded parks. He urged DPR to update and make the information available to the CFMC at each meeting. He asked DPR to present a comprehensive Croton-funded parks project status update at the March CFMC meeting.

Tour of JPR

Mr. Fanuzzi thanked Mr. Ojar and expressed thanks to Deputy Commissioner James Roberts for the CFMC tour of JPR on December 9, 2013. He said the CFMC representatives and Assembly Member Dinowitz got an in depth explanation of upcoming capital work that is needed inside the fences at JPR. The work includes east wall repair, interior wall repair, replacement of perimeter paths and fence improvements. This work must be scheduled with the operations of the Croton Filter Plant and the planned shutdown of the Delaware Aqueduct in 2021. Mr. Fanuzzi said that Associate DEP Commissioner Matthew Mahoney has agreed to brief the CFMC in March on DEP's water management report "Water for the Future". As a result of the amount of capital construction at JPR, there will be no public access pilot program in the near future. Ms. Argenti said this is another tactic to keep the public out of JPR. She requested the information that will be presented in March ahead of time so it can be studied prior to the meeting. Mr. Axelbank asked for high level DEP staff come to the CFMC to discuss public access. Ms. Garti asked for a time line for the JPR work, saying that JPR has been off-limits due to security issues, which was never the intent before September 11, 2001 and before the Croton Filter Project started. Mr. Ojar said the JPR construction projects will begin once the Croton Filter Plant is on line or near full operations. The scope of the four projects is not complete, but when the scope is finalized, the CFMC will be briefed. Mr. Fanuzzi recommended that the construction be phased so that when some of the work is complete the public can access areas of JPR that are not in construction.

Assembly Member Dinowitz said that at the tour he requested that DEP make the dividing wall at JPR available for the public in the near future.

Croton Construction Update, Costs and Schedule

Mr. Daly asked if there were questions about the previously-distributed costs report through October 2013. (*Attachment 7*) There were no questions or comments.

Mr. Daly provided a brief construction update (*Attachment 8*).

On Monday, December 9, 2013, Start-Up and Testing of the process began at the Croton Filter Plant. Startup and Testing will continue during 2014.

Some construction at the VCP site continues. The vast majority of mechanical process equipment inside the plant has been installed. Installation of the fire alarm system is ongoing. In response to Ms. Khoury's question, Mr. Daly said that DEP plans to have the fire alarm system operational before Croton water goes into distribution.

Electrical, Heating, Ventilation and Air Conditioning (HVAC), plumbing and interior finish work in the plant continue. A small amount of concrete is being placed for perimeter retaining walls. Construction of the DEP above-grade structures, retaining and gabion walls, green roof, and site grading are proceeding at the VCP site; the green roof is not yet complete.

In response to a question, Mr. Daly explained that the Department of Design and Construction (DDC) cannot commence the site landscaping at VCP until the construction trailers at the site are removed. Because of ongoing construction, these trailers are still required, and a date for their removal has not been set.

At JPR, construction of the Croton Shaft and Meter Chamber/Distribution Chamber is complete. Minor work on other small chambers and landscaping will be finished in the months ahead. The North Basin of JPR contains water that is being used for Start-Up and Testing of the process. Any water in the South Basin is as a result of water being transferred from the North Basin to keep a consistent water elevation in the North Basin.

Work in the area of Gate House No. 7 has proceeded with good coordination between DPR's jogging path project and DEP's ability to access Shaft 3. There is about six months of intensive work needed by DEP at this location. Currently, using prescribed protocols, lead abatement in Shaft 3 is underway with no danger to the community. As required, a waste profile and manifests are prepared for any hazardous waste. In the next couple of months, DEP will close a short portion of the right lane of eastbound Sedgwick Avenue for construction activities at Shaft 3. The CFMC has previously seen the transportation analyses that document virtually no impact on area travelers driving or walking, and DEP will be working closely with DOT on the street closure. Mr. Fanuzzi requested, and Mr. Daly agreed, that Daniel Padernacht, Transportation Committee chair of Community Board #8, will be notified before DEP closes the right lane of eastbound Sedgwick Avenue.

In concert with DPR, DEP is performing site restoration at Gate House No. 1. Plumbing, HVAC and interior finish work in Gate House No. 5 is underway. A new temporary roof was installed at Gate House No. 2.

Removal of the Microstrainer Building at the south end of JPR is awaiting regulatory approvals. Once received, all demolition will occur within a temporary structure that will completely cover the building. [Note: the contractor mobilized to start the demolition on January 13, 2014; the CFMC received notification about it on January 10, 2014.]

The noise wall across from Bronx High School of Science will be dismantled during 2014 and the area behind it will be restored to its previous condition.

At the Demonstration Filter Plant site south of Gate House No. 5 on Goulden Avenue, the floor slab and grade beams must be demolished. Because the foundation walls are coated with asbestos waterproofing, removal is complicated, and it will be performed in stages. A demolition permit will be required from the Department of Buildings along with approvals to perform asbestos removal.

As the CFMC has previously been advised, all force main test pits were restored and roadway striping work was completed in June 2013.

Mr. Daly responded to each of the points made by Mr. Solomon:

Vibration isolators are required..... The possible consequences of no vibration isolators must prevent the Croton Plant from opening until the vibrators are in place.

DEP - Vibration isolators on support racks for electrical conduits are not required per the Croton Water Filtration Plant ("WFP") electrical contracts and are also not required under the 1968 Building Code (applicable code for Croton WFP). However, seismic supports for the support racks are required and have been provided throughout the plant.

Solomon – There are serious mold damages at because

DEP - There are no serious mold damages at the Croton WFP

Solomon - There is undersized conduit

DEP has no knowledge of any undersized conduit at the Croton Filter Plant

Solomon – “In rush” currents need protection

DEP - Overcurrent protection has been appropriately selected by the Design Engineer to take “in rush” currents

Solomon - Exhibit D, other violations

DEP - Exhibit D is a list from 2007 and any items on the list that required resolution have been resolved

Solomon - Lack of point to point diagrams

DEP – Electrical contractor has submitted over 1,300 point to point diagrams that have been approved by the Design Engineer

Solomon - Statements regarding Mark Reed, Dan Capono and David Smith

DEP - All three gentlemen worked at the Croton WFP for the electrical contractor in years past and we have no facts on why they left. They did not leave because of any actions by DEP.

Solomon - Working drawings need professional engineer

DEP - In cases where the electrical contractor is required to perform design calculations, the working drawings are sealed and signed by a NYS Professional Engineer. These drawings are also reviewed and approved by NYS Professional Engineers working for our Design Engineer. All other working drawings submitted by the electrical contractor are also reviewed and approved by NYS Professional Engineers working for our Design Engineer.

Solomon – Additional Code violations

DEP - DEP maintains a full-time electrical inspection staff to verify that the electrical contractor is installing its work in compliance with designer comments and code requirements. Any open deficiencies and potential violations will be closed out before the job is completed.

Solomon - Electrical cable failure

DEP - There have been no issues of cable failure at the Croton WFP. Equipment connected to electrical cables been energized and are operating normally.

Solomon - Extensions of time issued

DEP - DEP issues Partial Extensions of Time to contractors to process payments and change orders. Final Extensions of Time are approved by the Board of Extension of Time. Both of the Croton WFP plant electrical contracts have received Partial Extensions of Time but none of them has received a Final Extension of Time.

Solomon – Need a fire alarm system

DEP - Installation of Fire Alarm system for plant is ongoing.

CFMC Discussion

Mr. Fanuzzi said that Father Gorman will chair the CFMC's 2014 meetings. The next meeting was set for March 20, 2014. Mr. Fanuzzi said that there will be an interim meeting with some of the CFMC representatives ahead of March 20th. Mr. Axelbank moved that DEP extend to the community an olive branch, and agree to meet monthly. Mr. Fanuzzi seconded the motion. Mr. Ojar said he would see whether DEP would meet with the CFMC more often than quarterly. [Note: DEP will maintain its policy for quarterly meetings at all DEP FMCs.]

Unanimously, the CFMC adjourned the meeting at 9:45pm.

<u>Name</u>	<u>Organization / Company</u>	<u>Address</u>	<u>Phone</u>	<u>Fax</u>	<u>E-Mail</u>
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Robert Fanuzzi	Community Board #8	5676 Riverdale Avenue Bronx NY 10471	(718) 884-4740		fanuzzir@stjohns.edu
Andrew Penzi	Department of Parks & Recreation	Olmstead Center Flushing Meadows-Corona Park	(718) 760-6577		andrew.penzi@parks.nyc.gov
Adaline Walker-Santiago	Community Board #7	229 A East 204 Street Bronx NY 10458	(718) 933-5650		awalkersantiago@cb.nyc.gov
Gary Axelbank	Sedgwick Avenue Resident	1 Bronx River Parkway Bronx NY	(914) 740-6758		gaxinthebronx@gmail.com
Bernard Daly PE	Department of Environmental Protection	3701 Jerome Avenue Bronx, NY 10467	(718) 696-2000		bdaly@dep.nyc.gov
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Karen Argenti	Bronx Council on Environmental Quality	3400 Paul Avenue Bronx NY 10463	(646) 529-1990		kabx101@gmail.com
Robert Press	Bronx News	3155 Rochambeau Bronx NY 10467	(718) 653-6992		100percentbronxnews@gmail.com
Honorable Jeffrey Dinowitz	Member of Assembly	3107 Kingsbridge Avenue Bronx NY 10463	(718) 796-5345		jeffreydinowitz@gmail.com
Wilhelm Ronda	Office of Bronx Borough President Diaz	198 East 161st Street Bronx, NY 10451	(718) 590-8087		wronda@bxbp.nyc.gov
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Maria Khury	Community Board #8	5676 Riverdale Avenue Bronx NY 10471	(718) 884-4740		

*Some individuals did not sign attendance sheet

Agenda

Croton Facility Monitoring Committee Meeting

Thursday, December 12, 2013 – 7:00 PM

DEP Office – 3660 Jerome Avenue, Bronx NY 10467 - (718) 231-8470

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|---|---|
| I Welcome & Brief Report of CFMC Chair | Bob Fanuzzi, Chair |
| II Consider, Adopt December CFMC Agenda | CFMC Representatives |
| III Public Questions & Comments (15 minutes) | |
| IV Consider, Adopt 9/12/13 Meeting Minutes | CFMC Representatives |
| V Comments about 12/9/13 Tour of JPR
And JPR Public Access Pilots | CFMC Representatives |
| V Findings of NYC Comptroller's Audit on
Croton-Funded Parks | Tina Kim, Jonathan Rubin
Comptroller's Office;
David Cerone, Andrew Penzi DPR |
| VI Status of Jogging Path Construction | Andrew Penzi |
| VII JPR Tree replacement costs, and schedule | Andrew Penzi; Shane Ojar, DEP |
| VIII Form CFMC Advocacy for Pedestrian Bridge | CFMC Representatives |
| IX Croton Construction Update & Croton
Costs Report | Bernard Daly, DEP |
| X Elect CFMC Chair for 2014 | CFMC Representatives |
| XI CFMC Discussion &.Set Date for March
2014 CFMC Meeting | CFMC Representatives |
| XII Adjourn | |

From: Gary Axelbank <gaxinthebronx@gmail.com>
Sent: Saturday, December 14, 2013 10:43 AM
To: Robert Fanuzzi
Cc: Holstein, Martha
Subject: Please add to the FMC record...

Bob...

This last meeting was long and I didn't want to make it longer with these comments, so please have this entered into the record:

Because of the history of distortions and untruths told by the DEP through the long life of this project, it is not possible to accept at face value Mr. Daly's assurances about safety at the plant and the status and plans for a fire alarm system.

It's the same sort of insistence from Mr. Daly and his DEP colleagues that brought the bait and switch that the department pulled over blasting. The EIS states there would be none so as not to scare off project approval and when the time came to do the work, magically a 'minor modification' was filed and the department blasted away.

The same goes for assertions that the project could not be completed without the expensive and disruptive force main. Then after discovering that it was a technical impossibility, magically the project is proceeding without it.

So I stand by my recommendation at the outset of the meeting that the only way to properly evaluate the truth about plant safety and the fire and electrical systems is for the committee to engage a qualified independent inspector to visit the plant and evaluate those systems.

Unfortunately, given the history this project has with a compromised DOI, a proper inspection must be made by a truly independent body. Nothing less will do.

Gary Axelbank

ROBERT SOLOMON

October 8, 2013

Honorable Commissioner Carter H. Strickland
NYC Department of Environmental Protection
59-17 Junction Blvd.
Flushing, New York 11368

Re: Croton E-1 registration # 20070034195
Croton E-2 registration # 20070034360

Dear Commissioner Strickland:

I am compelled to inform you about an extremely dangerous, life-threatening situation that has developed at the DEP projects at Croton in The Bronx.

Since I had been involved in the estimates and bidding of the Croton Projects I was intimately aware of what had occurred at the site. That is to say until 12/14/2007 when I was removed from supervising the day-to-day operations.

Jacob Levita of Schlesinger Electrical appointed himself my replacement as the day-to-day manager. It should have been obvious to the DEP immediately that Mr. Levita did not have the necessary DEP experience (none) to perform any function at Croton. However, you did not request anything about his background nor his qualifications. Your acceptance of Mr. Levita has proven to be a terrible mistake, one of many.

Commissioner Strickland, much of what follows will clearly demonstrate that the DEP has not displayed a cooperative attitude but has, instead, remained obstructionist so as to appear to be concealing the severe problems and dangerous conditions at Croton rather than to operate in the sunlight and work openly to prevent a possible disaster with human lives at stake. It seems to me that politics and possible favoritism may outweigh the public safety. Even Mayor Bloomberg commented on 5/1/2013 that the Croton Project had "Plenty of oversight at Croton" (Exhibit A)

This is just not so.

How could Mayor Bloomberg be so misinformed?

MEETING WITH THEN COMMISSIONER CASWELL HOLLOWAY AND ASSISTANT COMMISSIONER MS. K. MALLON.

On 2/8/2011 I met with Mr. Caswell Holloway who was then the Commissioner of the DEP. I discussed the terrible conditions at Croton with Commissioner Holloway and Ms. K. Mallon, Deputy Commissioner.

My presentation of 2/8/2011 to Commissioner Holloway and Commissioner Mallon is attached as Exhibit B.

Mr. Holloway and Ms. Mallon both assured me that they were aware of some of these failures and Mr. Holloway strongly requested that I immediately meet with Michael Carroll, Assistant Commissioner of the Department of Investigation (DOI) of the City of NY (see Exhibit C). Mr. Holloway called Mr. Carroll immediately from his office and put me on the telephone with Commissioner Carroll. I agreed to meet Mr. Carroll at his office the very next day.

When I met with Commissioner Carroll on 2/9/2011 there were approximately ten people in the room. I made the same presentation as I had made to Commissioner Holloway. Questions were asked and answered and notes of the meeting were taken by the representative of Thatcher Associates, the independent integrity monitor for Croton. I continued to work with and meet with Commissioner Carroll until approximately 6/1/11. Commissioner Carroll of the DOI was then removed from his position and sent somewhere else..

I was impressed with the immediate activity after I made my presentation to Commissioner Holloway and Commissioner Mallon and Commissioner Carroll. However, to my dismay momentum slowed so I followed up with a letter to Commissioner Holloway on 6/5/2011.

Shortly after my follow-up letter Commissioner Holloway was "promoted" from Commissioner of the DEP to a position at City Hall. Mr. Strickland you were his replacement.

This left Commissioner Mallon in charge of the construction of Croton. This is a position for which Ms. Mallon is singularly not qualified. Ms. Mallon has bent and twisted the PPB Rules, the Standard Construction Contract and good sense with no resolution to the problems at Croton

THE CODE VIOLATIONS AND THE DANGEROUS CONDITIONS AT CROTON

① Vibration isolators are required to be integrated onto the support racks for electrical conduits to provide absorption of shocks during a potential earthquake. The design of this item must be approved by a P.E. with specific qualifications and approvals for this

complicated item. Because of an inspection by me of public photos of the racks, I believe that this item was never installed. Without these isolators even a slight tremor could cause the racks, conduits, cable tray and wires that feed all of the Croton equipment to crumble and disintegrate. This is why the vibration isolators are specified and must be installed. The possible consequences of no vibration isolators must prevent the Croton Plant from opening until the vibrators are in place.

2 In order for one to understand the urgent necessity to continuously protect all electrical feeders at Croton, and for power to be continuous, please note that presently there are serious mold damages at Croton because of the lack of required electrical feeders to pump motors on the lower levels which has allowed water to accumulate, a dangerous condition for all of the workers and visitors at Croton.

In other words, any interruption to the electrical feeders caused by any reason will have catastrophic cascading results especially in an operating plant. The violations of the electrical code such as was discovered in 2007 (see Exhibit D) could result in the immediate interruption to all of the systems at Croton. No one can imagine the chaos that situation would cause.

Just a few of the (we believe still) uncorrected code design flaws are as follows:

1. Undersized conduit. In this condition the wires will build up heat and could (not may) melt in the conduit, possibly causing fires but surely tripping the protective devices and interrupting the feeds to critical systems. If the conduits are too small then the wires must be derated. Those code violations, if not corrected, could take many months to develop. Heat, as described, could cause the wires to melt after an extensive period of time before causing melting, short circuits and fires. That is why the code must be followed so that faulty conditions do not develop. This then requires larger wires which then will require even larger conduits.
2. This same condition, as in "1" above, could be caused by the oversized circuit breakers specified and oversized fuses which do not protect the wires and will not "trip" the circuits as required by code and this would cause the wiring to fuse together and create a short circuit. Thus the critical systems are interrupted again in this scenario
3. "In rush" currents for motor loads have to be protected by dual element protective devices to accommodate the loads.
4. Kindly see previous Exhibit D, already presented above, listing, many other serious violations. Please note that only a partial list is submitted in that Exhibit D.

5. The lack of Point-to-Point drawings, although they are specified in paragraph 2.01 of the General Specifications, section 16010 (see Exhibit E) may not be an outright code violation but the lack of these drawings and the connections and coordination required by them will prevent the motors from being synchronized or coordinated and will definitely cause breakdowns of power and controls for the Croton feeder and control systems. This would cause the same catastrophic conditions described in the "code violation" section of my letter. The lack of enforcement of paragraph 2.01 is impossible to believe. Again, without Point-to-Point Drawings. The various controls for the many different control systems renders such systems inoperable.

I have personally been involved when the DEP conducted engineering meetings (as a matter of fact with Mark Reed, P.E. and with Mr. Dan Capano who had been hired for Croton but was fired in early 2008 and who is the preeminent authority on Point-to-Point drawings) see Exhibit F and I thoroughly understand the importance of these drawings. Peculiar to DEP work is that the various Prime Contractors supply different motors and controls for different systems (sometimes even for the same systems). That is why specified Point-to-Point drawings must be prepared and approved. That is another reason why the Point-Point drawings are absolutely necessary. The diverse equipment supplied by different contractors will require, once approved, different quantities and different sizes of wire. As quoted elsewhere in this letter, the specifications require that the contractors furnish and install the correct number and size of conduits for a working system. In my experience, the coordination of the different equipment usually requires more wire and larger conduit than originally shown on the plans and is the specifications. But, if no Point-to-Point drawings are produced and no coordination meetings are conducted there is no chance that this installation is correct. Why was Mr. Capano's contract broken? These drawings and the necessary coordination meetings ensure that the various motors and controls are compatible and the electrical characteristics mesh. After completion of a project Point-to-Point drawings are required for maintenance and "trouble-shooting." Without approved Point-to-Point drawings maintenance will be severely compromised, if not impossible.

Have you ever seen the severe damage done by a faulty electrical installation? The terrible burns, explosions, and extensive property damage? I warn you this is not a pleasant experience. The conditions at Croton are frightening to me. Plumbing can leak and the building can be too warm or too cold... **but electricity kills.**

Also, unfortunately at Croton with its high-voltage installation and terrible hazards, there are additional concerns because there are apartment houses very close to the site and this adds to the dangers created at Croton. If there is a fire or an explosion, the entire neighborhood could be affected. In addition, the Jerome Ave El train is adjacent to the Croton site. The last station of the Jerome Ave line is located almost directly at the entrance to Croton. There is a great deal of pedestrian and vehicular traffic including, several bus lines that converge at the location of the Croton Plant.

Is any person, organization or individual who reads this letter willing to accept the consequences of the possible deaths and destruction that might result from glossing over the seriousness of the defects at the Croton Plant?

I am not.

PREVIOUS FOIL REQUEST OF 6/27/2012

In one of my previous FOIL requests of 6/27/2012 I asked about code violations at Croton and the DEP provided me with a "spreadsheet" listing a few violations. This just cannot be. In early 2008 David Smith and other non-New York incompetent engineers were hired on a time and material basis but without any qualifications whatsoever to produce correct complicated working drawings for a complicated electrical project. It was apparent that the engineering and coordination was inadequate. How could the DEP approve incomplete, incorrect drawings prepared by incompetent "engineers"? How was any installation work allowed to proceed without utilizing the proper "means and methods" specified?

Mark Reed, Professional Engineer (P.E.) was the head of engineering but he was removed in early 2008. Mr. Reed had extensive DEP experience and is a member of the IEEE. This led to a serious violation of the DEP General Specifications – General Conditions which reads as follows:

"The working drawing shall be prepared by or under the direction of a qualified licensed Professional Engineer, currently registered in the State of New York and which drawings shall bear the imprint of his seal and his signature."

As you know, the DEP requires that the each Prime contractor inspect the conformed contract drawings and install only whatever complies with the applicable codes. I quote again from the General Specifications – General Conditions, as follows:

"Failure to discover or correct errors, conflicts or discrepancies shall not relieve the Contractor of full responsibility for unsatisfactory work, faulty construction or improper operation resulting there from nor from rectifying such conditions at his own expense."

Upon information and belief there was no P.E. supervising the preparation of the drawings for Croton after early 2008. The drawings that were produced were, at best, useless and at worst, **dangerous**.

There are many more examples of what other violations were uncovered in 2007 and never were incorporated onto the working drawings. How can the DEP now say that there are only a few code violations?

The Specification Book titled "Conduit and Cable Schedules "(C&C) is 1475 pages long (this is for E-1 only) and there are over 18,000 individual entries in the C&C.. Simple

extrapolation would suggest that there could be over one thousand violations that were never corrected and are now incorrectly installed at Croton. I have already described the consequences if only one violation is allowed.

Specifically, paragraph D on page 16900-1(see Exhibit G) reads as follows:

“Drawings show conduit and cable runs as diagrammatic or homeruns. Contractor shall determine conduit and cable routing in coordination with other Contractors and the Engineer. Where the total length of cables and conduit exceed the minimum NEC voltage drop limits, and/or maximum allowable pulling tension or jam ratio, the Contractor shall provide larger sizes of conduit and cables at no extra cost to meet required limits. The Contractor shall be responsible for calculating voltage drops, pulling tensions jam ratios and other factors for proper installation of conduit and cable.”

Did the DEP keep a log of the required dynamometer reading?

Did the DEP keep a log of the required megger readings?

The installations at these DEP projects are governed by the NYC Procurement Policy Board Rules (PPB) that were in effect at the time of the bid.

CROTON FACILITY MANAGEMENT COMMITTEE (CFMC)

I have read the minutes of the Croton Facility Management Committee (CFMC) from the beginning of the project including the two most current minutes of the March 21, 2013 meeting (see Exhibit H) and of the 6/13 /2013 CFMC (see partial Exhibit I) and I quote from the minutes of the 3/21/2013 meeting as follows:

“In response to Mr. Koppell. Ms. D’Attile of the DEP said - “the Croton Filter Plant will be ready to go into operation in the first quarter of 2014.”

Based on the charts and graphs supplied by the DEP to the CFMC and my FOIL inquiries and my experience the date of the “first quarter of 2014” cannot and will not be achieved.

Through my FOIL data and with my knowledge of this work I can project that the Croton Plant, as designed, cannot possibly open before mid-2015 and possibly not until 2016, ... if ever.

The original completion date for Croton was 2011 (see Exhibit J). This means that the actual Croton Plant completion will be at least four years late (in my opinion probably at least five years or six years late). This would be at least twice the original, specified, contractual completion time for Croton. My strong personal opinion is that if all of the DEP managers and all of the contractors remain in place that the Croton Plant, as originally designed, may never open.

The inclusion in the CFMC Report of very pretty printouts of the golf course and parks etc. has no practical application.

The arbitrary and unilateral decision by the DEP to basically stop the CFMC meetings is strictly self-serving. As already noted, the latest published minutes of the CFMC is from the meeting of 6/1/2013. This is not satisfactory.

In this particular situation at Croton, the negotiated "contract" between a prime and a sub-contractor also allows the sub-contractor to make more money the longer the job is delayed. The DEP (under Ms. Mallon) apparently approved this self-defeating plan.

Add to these conditions the fact that when the projects are delayed there are many major law firms that prosper. Legal fees for Croton alone are in the tens of millions of dollars.

Why finish any DEP project at all?

The only "victims" are the Public and the taxpayer who, evidently, do not deserve consideration.

Many DEP employees, project managers and other DEP personnel "retire" and are immediately welcomed by the consultants. See paragraph 1 on page 8 below. In other words a DEP employee(s) who awards tens of millions of dollars of work to an Engineering and/or Construction Management firm then retires and gains employment at the same firm.

The monthly meetings of the CFMC must be reinstated and staffed correctly to extract accurate information from the DEP on Croton, not an overly optimistic depiction. Someone with knowledge of the DEP methods and of construction must represent the CFMC at these meetings, otherwise the CFMC is easily duped.

VIOLATIONS OF ARTICLES OF THE STANDARD CONSTRUCTION CONTRACT REGARDING EXTENSIONS OF TIME

In my opinion the approval by the DEP of EOT #1 is a serious violation of various provisions of the contract. I quote from the SCC as follows:

"The Contractor shall commence Work on the date specified in a written notice signed by the Commissioner. The time for performance of the Work under the Contract shall be computed from the date specified in such written notice. TIME BEING OF THE ESSENCE (emphasis in specs) to the City, the Contractor shall thereafter prosecute the Work diligently, using such Means and Methods of Construction as are in accord with Article 4 herein and as will assure its completion not later than the date specified herein, or on the date to which the time for completion may be extended."

Also Article 13.4 – which reads as follows:

“The Contractor shall not be entitled to receive a separate extension of time for each of several causes of delay operating concurrently, but, if at all, only for the actual period of delay in completion of the Work as determined by the Commissioner or the Board, irrespective of the number of causes contributing to produce such delay. If one of several causes of delay operating concurrently results from any act, fault or omission of the Contractor or of its Subcontractors or Materialmen, and would of itself (irrespective of the concurrent causes) have delayed the Work, no extension of time will be allowed for the period of delay resulting from such act, fault or omission.”

Note that there has never been any proper installation or coordination of the required Fire Alarm and Smoke Detection System (FA). On information and belief, there are not even any devices installed to date. The Fire Alarm installation was inordinately delayed (see Exhibit K).

The project cannot open without a fully functioning FA system. The conduit and empty outlet boxes for the required devices are incorrectly located, not installed at all, installed behind the work of other trades or are in inaccessible spaces (not allowed by code).

Since the FA system is not installed, the project cannot open, and this qualifies as a concurrent delay as defined by Article 13.4 above. Please remember, no FA system equates to an incomplete installation which equates to a concurrent delay which precludes any Extension of Time per Article 13.4 of the Standard Construction Contract.

Again: “If one of several causes of delay operating concurrently results from any act, fault or omission of the Contractor or of its Subcontractors or Materialmen, and would of itself (irrespective of the concurrent causes) have delayed the Work, no extension of time will be allowed for the period of delay resulting from such act, fault or omission.”

It is my expert opinion, earned by having dealt with the DEP for many years in an upper management position that the basis for EOT 1 (and possibly 2) were not actually delays (outside of paragraph 13.2) but were just a convenient method to negotiate between lawyers to create an unnecessary unearned Extension of Time. I seriously question the validity of the feeder conditions cited as an excuse. I confess that this is only based on my experience and my knowledge of the work performed on this item prior to 12/14/2007 and inspection of thousands of pages of documents secured by FOIL . I believe that a cursory inspection of records and the site would prove me correct.

Anyway, the “concurrent” item automatically voids any Extension of Time. Therefore why was any Extension of Time allowed?

OTHER MISCELLANEOUS ITEMS

1. A by-product of the conditions at Croton is the increase of almost 600% for the engineering fees for Metcalf and Eddy (M&E) alone plus additional engineering fees for others which make the total over 700% over their original contracts . The

change order log for M&E contains hundreds of thousands of dollars for “extension of services.” What does this mean? The 700% increase represents a plus \$250 million for engineering fees – in other words \$250 million dollars or, more clearly, a ¼ of a billion dollars increase.

2. Commissioner Strickland, I am currently preparing another letter to you outlining the clear requirements for **DEBARMENT OF A CONTRACTOR**. It is my sincere belief that the only method that will expedite completion of Croton is to debar the contractor(s) who are guilty of causing the major delays. Although it seems to defy logic, my extensive expertise in contracting has proved to me that a bad foreman or a bad subcontractor must be terminated ASAP in order to expedite the remaining work. This “rule” works. The “rule” in place at Croton does not work. Also, this can be accomplished with no extra costs to the DEP or to NYC.
3. I am also preparing a separate letter to you regarding the DEP’s lack of cooperation regarding my application requests under FOIL. I quote from the “Public Officers Law” (see Exhibit L) as follows:

“The legislature hereby finds that a free society is maintained when government is responsive and responsible to the public, and when the public is aware of government actions. The more open a government is with its citizenry, the greater the understanding and participation of the public in government.”

4. I have only attached a small sampling of exhibits. Many, many more are available if required.
5. Please expedite my latest FOIL application
6. Please expedite my future FOIL applications, when submitted.
 - a. One item that I will request will be the log of dynamometer readings for the wire pulls, as specified.
 - b. Another item that I will request will be for the log of megger readings for the installed wire, as specified.

Commissioner Strickland I am one of the very few people left that have been involved in Croton from the very beginning. With all due respect Commissioner for anyone to be placed so late in the middle of an ongoing quagmire and know the entire history is an impossible task. However, I believe that my data and my experience is very valuable to the DEP and to NYC and to the public who are currently at risk.

Ignore my knowledgeable advice at your own risk. This has now been proven time and again since 2008. The veracity of my past comments is proven by the status of the job.

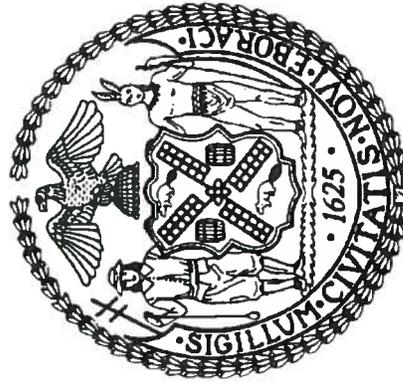
I am available if the DEP wishes to initiate any meeting(s) or I can attend a complete walk-through of Croton and make my observations. .

Thank you.

 S/
Robert Solomon
Cell: 347-200-2242
e-mail: RRNAS@aol.com

Implementation of Croton Water Filtration Plant Projects by the Department of Parks and Recreation

December 12th, 2013
New York City Office of the Comptroller
Bureau of Financial Audit

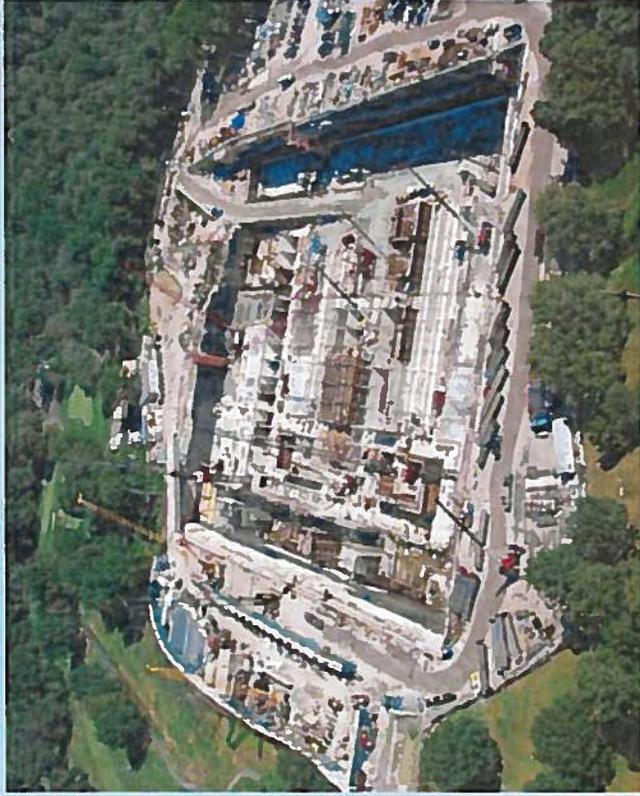


General Background

Information

- ▶ The audit determined whether the Department of Parks and Recreation (DPR) carried out within schedule and budgeted amounts the capital improvements projects that were stipulated in an agreement to construct the Croton Water Filtration Plant in the Bronx.

- Under a 2004 Memorandum of Understanding (MOU) that allowed the City to move forward with the construction of the filtration plant at the Mosholu Golf Course in Van Cortlandt Park, the City's Department of Environmental Protection was to provide DPR with funds to make improvements to Bronx parks within five years.
- A 2005 Memorandum of Agreement (MOA) between DEP and DPR required DEP to provide DPR with \$186.05 million in funding to undertake 67 projects.



Construction of the Croton Filtration Plant in Van Cortlandt Park

Major Audit Findings

- DPR is not always carrying out and overseeing the required capital improvements on-time and within budgeted amounts.
 - ✓ *83 percent of sampled projects were not completed within DPR's scheduled timeframes.*
 - ✓ *21 percent of projects were not completed within their original contract and contingency amounts.*

- By April 30, 2013, although DPR had started work on 65 of the MOA's 67 capital improvement projects, only 46 projects totaling \$107.4 million were completed.
- ✓ *37 of the 46 completed projects were finished beyond DPR's scheduled completion dates.*

➤ DPR carried out some of the projects under multiple contracts or phases, thereby increasing by 26, the number of “eligible” projects from 67 to 81.

✓ *Of the 26 projects, 8 totaling over \$10 million were not eligible projects.*

✓ *There was no evidence that DPR had obtained approvals for the eight projects.*

- Even if DPR did obtain the required approvals, it would have expended only \$146.6 million as of April 30, 2013;
- thereby falling short of expending the \$186.05 million in funding that was stipulated in the MOA by at least \$39.45 million.

- As a result of not carrying out projects timely and cost effectively, *DPR expended \$7.4 million in additional project costs—*
 - ✓ *\$560,791 in additional staffing costs for construction management and,*
 - ✓ *\$6.8 million in additional construction costs.*

➤ Only 29 eligible projects totaling \$48.6 million were completed by December 31, 2009, the approximate completion date specified in the original MOU.

Issues Pertaining to DPR Response

- In its written response, DPR focused on issues outside the scope of our audit rather than directly address the audit issues and accompanying recommendations.
- DPR also considered the audit’s suggestion as “misleading” that ‘the City may have reduced regular capital funding for Bronx parks’ due to Croton funding.

- DPR disagreed with the audit finding that 8 projects were ineligible for inclusion under the MOA.
- However, DPR’s own determination conveyed to the audit team after the exit conference indicates that DPR personnel deemed the eligibility of four of the eight projects as “No” and the eligibility of the other four projects was deemed “Maybe.”

Restoration of Area at JPR

Dear Croton FMC Representatives and Agency Officials:

Anne Marie Garti provided the follow up below after discussion at last night's Croton FMC meeting about restoring the area at Jerome Park's east side following construction. She located other matters, too, that were brought up at prior CFMC meetings in relation to public access.

Sincerely,

Martha

-----Original Message-----

From: Anne Marie Garti [mailto:annemarie@garti.net]

Sent: Thursday, September 12, 2013 10:28 PM

To: Holstein, Martha

Cc: Wilhelm Ronda; G.Oliver Koppell - NYC11thCouncilman; Fr Gorman

Subject: Re: Croton Filter Plant - Croton FMC Meeting Agenda

Martha,

I found a scanned copy of the 1985 construction permit for the parkland between JPR and Goulden Ave (It's part of Harris Park). The permit can be found in the 6/30/11 minutes of the CFMC on pages 68 - 77.

Permit Number: X-1_85E, dated March 25, 1985 For restoration requirements, see items 5, 10, 12-14, 17-20, 24, 27, 29.

Available at: <http://www.nyc.gov/html/dep/html/news/croton.shtml>

open or download 6/30/11 minutes of CFMC minutes: croton6-30-11.pdf Pages 68-77

Also in these minutes:

Public Access at JPR

June 2, 2011

pages 10- 44

Educational Brochure

pages 45-64

Creation of Harris Park

Pages 65-67

Please send this message to the rest of the CFMC and copy me. Thank you.

Anne Marie

WM-11 Croton Water Treatment Plant
Cost Summary as of 10/31/2013

Croton WTP Construction Costs							
Contract	Contractor Name	Original Contract Price	Registered Change Orders	Current Contract Amount	Amount Invoiced to Date	% Contract Increase	% Complete based on Amount Invoiced to Date
CRO-311	Schiavone Construction Co.	\$127,660,000	-\$14,445,214	\$113,214,786	\$113,214,786	-11%	100%
CRO-312G	Skanska/Tully, JV	\$1,327,700,000	\$195,290,181	\$1,522,990,181	\$1,331,447,255	15%	87%
CRO-312E1	Schlesinger-Siemens, LLC	\$134,680,000	\$30,824,969	\$165,504,969	\$116,191,488	23%	70%
CRO-312E2	Schlesinger-Siemens, LLC	\$37,678,000	\$10,381,889	\$48,059,889	\$39,130,008	28%	81%
CRO-312H	Durr Mechanical Construction	\$105,700,000	\$28,498,763	\$134,198,763	\$118,399,870	27%	88%
CRO-312P	Picone/WDF, JV	\$58,475,000	\$15,591,674	\$74,066,674	\$68,641,409	27%	93%
CRO-312OS-G	Picone-Schiavone, JV	\$96,842,500	\$33,880,220	\$130,722,720	\$108,568,643	35%	83%
CRO-312OS-E	Eldor Electric	\$15,762,500	\$2,779,397	\$18,541,897	\$15,598,270	18%	84%
CRO-312OS-H	AWL Industries	\$822,000	\$56,971	\$878,971	\$448,643	7%	51%
CRO-312OS-P	JPP Plumbing	\$872,000	\$235,755	\$1,107,755	\$942,445	27%	85%
CRO-312FM (1)	Maspeth Supply Co. LLC	\$18,626,745	-\$15,138,445	\$3,488,300	\$2,243,079	-81%	64%
CRO-313	Schiavone/Picone, JV	\$212,227,000	-\$6,581,381	\$205,645,619	\$205,645,619	-3%	100%
CRO-315G	Angelakis Construction Corp.	\$3,641,000	\$2,282	\$3,643,282	\$3,643,282	0%	100%
CRO-315E	Interphase Electric	\$807,317	\$144,874	\$952,191	\$952,191	18%	100%
CRO-312CE	Con Edison	\$4,074,526	\$0	\$4,074,526	\$2,716,351	0%	67%
TOTAL		\$2,146,668,688	\$281,621,934	\$2,427,090,622	\$2,127,783,338	13%	88%
Croton WTP Design / Construction Management Costs							
HED-543 DES	Metcalf & Eddy / Hazen and Sawyer, JV	\$44,226,000	\$254,423,444	\$298,649,444	\$283,534,016	575%	95%
HED-545 CM	URS/Malcolm Pirnie, JV	\$63,400,000	\$76,195,713	\$139,595,713	\$130,731,678	120%	94%
TOTAL		\$107,626,000	\$330,619,157	\$438,245,157	\$414,265,694	307%	95%

Rehabilitation of the New Croton Aqueduct Construction Costs							
Contract	Contractor Name	Original Contract Price	Registered Change Orders	Current Contract Amount	Amount Invoiced to Date	% Contract Increase	% Complete based on Amount Invoiced to Date
CRO-334G	Frontier-Kemper/Schiavone/Picone JV	\$91,696,805	\$24,310,000	\$116,006,805	\$105,326,440	27%	91%
CRO-334E	Community Electric	\$1,119,000	\$342,215	\$1,461,215	\$1,034,088	31%	71%
TOTAL		\$92,815,805	\$24,652,215	\$117,458,020	\$106,360,529	27%	91%
Rehabilitation of the New Croton Aqueduct Construction Management Costs (2)							
TCM-CRO-334	Washington/HAKS JV	\$5,952,446	\$2,161,900	\$8,114,346	\$8,081,027	36%	100%
TOTAL		\$5,952,446	\$2,161,900	\$8,114,346	\$8,081,027	36%	100%

Notes:
 (1) Costs shown for CRO-312FM are for the original Force Main Route to Hunts Point WPCP.
 (2) Design costs for CRO-334G and CRO-334E are included in Contract HED-543 DES.

WM-11 Croton Water Filtration Plant
 Facility Monitoring Committee
Look-Ahead Schedule
 December 12, 2013

Task	Current Forecasted Completion	Nov-13				Dec-13				Jan-14				Feb-14				Mar-14			
		WK 3	WK 4	WK 1	WK 2	WK 3	WK 4	WK 1	WK 2	WK 3	WK 4	WK 1	WK 2	WK 3	WK 4	WK 1	WK 2	WK 3	WK 4		
CRO-312 - Water Filtration Plant Construction at Mosholu Site																					
Checkout, Field Equipment Testing and Field System Testing - Plant A	12/9/2013																				
Checkout, Field Equipment Testing and Field System Testing - Plant B	2/2/2014																				
Startup and Testing of Plant A	2/2/2014																				
Startup and Testing of Plant B	3/30/2014																				
CRO-31205 - Off-Site Facilities at Jerome Park Reservoir and Gate House No. 1																					
Rehabilitation Work and Entry Point Monitoring in Gate House No. 5	2/28/2014																				
Demolition of Microstrainer Building	4/30/2014																				
Demolition of Demonstration Building	6/30/2014																				
South Bronx Valve Chamber and Chamber C Work plus Landscaping	5/31/2014																				
Water Main Piping Outside Gate House No. 7	12/2/2013																				
Lead Abatement inside Shaft 3	1/10/2014																				
Shaft 3 Interior Work (Partial Closure of Sedgewick Avenue)	8/31/2014																				
Begin Startup and Testing of Water Filtration Plant	12/9/2013																				
Complete Above Grade Architectural Work at DEP Area	12/31/2014																				
Complete Golf Course Clubhouse, Driving Range, Etc.	TBD																				