

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP)
CROTON FACILITY MONITORING COMMITTEE MEETING MINUTES
TUESDAY, NOVEMBER 25, 2014 – 7:00 PM

The Croton Facility Monitoring Committee (CFMC) met on Tuesday, November 25, 2014 at the DEP Office, 3660 Jerome Avenue, Bronx, NY 10467.

Welcome

Chair Father Richard Gorman called the meeting to order at 7:15 pm. Attending were Fr. Gorman, Representing Community Board #12; Hector Aponte, Bronx Borough Commissioner, Department of Parks and Recreation (DPR); Wilhelm Ronda, Representative of Borough President Ruben Diaz, Jr.; Andrew Sandler, Representative of Council Member Andrew Cohen; Daniel Padernacht, Chair, Community Board #8; Steve Lawitts, Eric Landau and Shane Ojar, Representatives of the Department of Environmental Protection (DEP); members of the public and city agencies. Community Board #7 did not have a representative present. (Attendance list is *Attachment 1*)

Fr Gorman expressed appreciation to Mr. Lawitts for coming to the meeting despite having an important family event already scheduled.

Adoption of Agenda

The evening's agenda was unanimously adopted. (*Attachment 2*)

Adoption of Minutes

The CFMC adopted the minutes of the CFMC meeting of October 18, 2014, on a motion offered by Mr. Ronda, seconded by Mr. Sandler.

Independent Budget Office (IBO) Presentation – Justin Bland, IBO

Representing the IBO, Elizabeth Brown and Justin Bland presented an update of IBO's analyses of the costs of the Croton Filter Project. By cover letter to the CFMC, Ms. Brown forwarded a memo and appendices of construction costs and the costs of mitigation projects (*Attachment 3*). Mr. Bland then presented a PowerPoint summary (*Attachment 4*). Their report shows the current cost of the project is \$3.7 billion, with additional costs to come. These include \$2.3 billion for construction contracts; \$686 million for design and construction management; \$42 million for Inter Fund Agreement (IFA) costs; and \$15 million budgeted in 2020 for project wrap up. New Croton Aqueduct (NCA) costs are \$191 million and Croton mitigation projects under the DPR are \$312 million in capital funds and \$12.5 million in expense funds. For the mitigation, the costs are \$324.2 million with \$10 million allocated for a state park, \$10 million for tree planting, and \$25.4 million for other amenities. The 2004 Memorandum of Understanding (MOU) calls for \$264.5 million and the 1999 Uniform Land Use Review Procedure (ULURP) projects are budgeted at \$21.7 million. Costs have increased by 6.9% or \$238 million since 2011, more than half of which have been allocated to design costs. \$27.2 million reduction occurred once the force main project was cancelled.

DEP Comments in Response to IBO Presentation

Mr. Lawitts said that DEP's costs and IBO's costs reflect a few differences in accounting methods but that DEP is in agreement with IBO on the general project costs. Like other agencies, DEP does not include IFA costs for capital construction. In accounting for costs DEP does not include the NCA costs when determining the cost of building the Croton Filter Plant. IBO does. Mr. Lawitts said that NCA was always planned to be rehabilitated by DEP and it is separate from the Croton Filter Plant project. Mr. Lawitts added that \$124 million of the Croton costs were spent before 2000 for conceptual studies. Since these were for preliminary planning, they are not budgeted to Croton construction costs. Mr. Bland agreed with these comments and said that IBO relies on the city agencies for basic cost information and that IBO and DEP work well together.

Mr. Aponte spoke at length and in detail about many of the parks mitigation projects. Fr. Gorman asked how DPR funds the projects that cost more than the amounts allocated to them. Mr. Aponte said other sources, including grants, are used to supplement the mitigation money, and further that bringing additional resources to parks projects results in improving them.

Gary Axelbank, area resident, made two complaints: (1) the cost of Croton is four times the original projection. Has IBO seen this elsewhere? Mr. Bland said many factors, including inflation and construction bids taken when industry-wide bids were consistently high, help explain higher costs. He said his job is to analyze the costs, not analyze outside factors. He said that his understanding is that IBO and DEP met with the CFMC on prior occasions and previously discussed conditions that influenced the costs. (2) DEP mitigation money, transferred to DPR, resulted in DPR's budget being reduced by the same amount. Mr. Aponte said, as he has before, that DPR relies on funding from the City Council Bronx delegation and from the Borough President's capital allocation and that DPR's budget has benefitted greatly through support from the locally elected officials. Andrew Penzi, DPR, said that at least \$21.7 million has been spent on projects in VCP.

Clarification was sought by Karen Argenti, Friends of Ft. Independence Park Neighborhood Association, and by Mr. Axelbank about the pressurization of the NCA. Arne Fareth, DEP, participated in the discussion. Christina Taylor, Friends of Van Cortlandt Park (VCP), said that with some mitigation funds not yet committed for park improvements, DEP and DPR could use the money to pay for the pedestrian bridge over the Major Deegan Expressway to connect the two sections of VCP.

Mr. Bland said that a total of \$33.5 million that is planned but has not yet been committed is detailed on a project by project basis in the IBO appendix.

Croton Costs Report and Construction Schedule

There were no questions or comments about the costs report through September 30, 2014 (*Attachment 5*).

Bernard Daly, DEP, provided the construction update (*Attachment 6*).

Startup and Testing of Plant A and Plant B were completed in mid-March 2014. The department test operated the facility, discharging the treated water into the Harlem River at Shaft 25 until the end of June 2014. At that time the department ceased test operation of the plant and made process adjustments. These adjustments were completed in late October, 2014 allowing for re-disinfection of the plant to begin.

Construction is continuing on the DEP police booth at the DEP entrance driveway. The entrance to VCP at 213 Street and Jerome Avenue is in use. Gabion and retaining walls installation continues. Green roof foam, soil and seeding are virtually complete, and exterior finishes are being applied to the above-ground structures.

The contractors are continuing to install electrical work on the fire alarm systems inside the plant, and in the above-ground structures. Work on the security systems throughout the plant, continues. Startup and testing of fire suppression systems are continuing. HVAC equipment and mechanical systems inside the plant are in startup and testing phase, and installation continues on HVAC equipment and piping in above-ground structures.

DEP is progressing the work in order to comply with the revised consent order which requires that filtered Croton water be put into distribution by mid-May, 2015.

Off-Site work at Jerome Park Reservoir and at Gate House No. 1

As previously reported, work is substantially complete in the Shaft and Meter Chamber.

A damaged section of the floor of JPR's North Basin is being repaired with new concrete. At Gate House No. 1 new fencing has been installed, and the upgrade to the permanent electric power is underway. As previously reported, work at Gate House No. 2, No. 3 and No. 6 is complete. At Gate House No. 5 work continues on the entry point monitoring system. At Gate House No. 7 new windows were installed. Underground work at Shaft 3 has required the continued closure of part of an eastbound lane at Sedgwick Avenue through winter, 2015 with limited impact on travel. Pipe and valve installation work in Shaft 3 is underway following completion of the abatement work. At Shaft 3, the agency will install a new access point in the grassy lawn at Goulden and Sedgwick Avenues to replace the "doghouse". This work is expected to be completed later in spring, 2015.

The contractor has not yet begun demolition of the Microstrainer Building at the south end of JPR due to the finding of additional asbestos. DEP's asbestos task force plans to remediate it. At the Demonstration Filter Plant foundation slab, the adjusted schedule for its removal is late spring 2015.

Old Business

DPR Jogging Path project

Mr. Aponte and Andrew Penzi, DPR, said that the contractor continues to use approximately ten workers per day for construction of the jogging path project and the contractor has replaced the plumbing subcontractor. Construction completion is now projected for mid-December 2014, with a contractor's guarantee of one year. DPR has not found severe ponding conditions but has been responsive to complaints from Council Member Cohen and Community Board #8 about ponding at the park entrance and in the park. The water supply system was extended to feed ground hydrants in the dog runs in response to a Community Board #8 request. The contract does not have provisions for canine drinking fixtures, but the utility location now allows for the potential add-on of a fixture in the future. A punch list from Community Board #8 and from Mr. Sandler will be addressed. DPR's quality assurance group finds the project construction acceptable.

New Business & Next Meeting

Fr. Gorman said the new CFMC chair will set date and agenda for the next meeting. He thanked the members of the CFMC and the public for their work to hold the Croton Filter Project to a high level of public scrutiny. He said that CFMC meetings could be shorter if they were more frequent. He recommended that the CFMC and the public examine the promises made prior to construction of the Croton Filter Project and fight to have the promises fulfilled. [Note: the next CFMC meeting will be on Monday, April 20, 2015.]

The meeting adjourned at 8:45pm.

<u>Name</u>	<u>Organization / Institution</u>	<u>Address</u>	<u>Phone</u>	<u>Fax</u>	<u>Email</u>
Eric Landau	Department of Environmental Protection	59-17 Junction Blvd Flushing NY 11368	(718) 595-5489		elandau@dep.nyc.gov
Shane Ojar	Department of Environmental Protection	59-17 Junction Blvd Flushing NY 11368	(718) 595-4148		sojar@dep.nyc.gov
Thomas M. Farrell	Croton Construction Management	3701 Jerome Avenue Bronx NY 10467	(718) 696-2000		thomas.farrell@cbi.com
Ed Neisch	Croton Construction Management	3701 Jerome Avenue Bronx NY 10467	(718) 696-2022		ed.neisch@arcadis-us.com
Laura Spalter	Community Board #8	5676 Riverdale Avenue Bronx NY 10471	(718) 884-4740		lsrca1@aol.com
Christina Taylor	Friends of Van Cortlandt Park	80 Van Cortlandt Park South Bronx NY	(718) 601-1460		christina@vancortlandt.org
Karen Argenti	Bronx Council on Environmental Quality	3400 Paul Avenue 12T Bronx NY 10468	(646) 529-1990		kabx101@gmail.com
Arne Fareth	Department of Environmental Protection	3701 Jerome Avenue Bronx NY 10467	(718) 696-2000		arnef@dep.nyc.gov

Agenda

Croton Facility Monitoring Committee Meeting

Tuesday, November 25, 2014 – 7:00 PM
DEP Office – 3660 Jerome Avenue, Bronx NY 10467 - (718) 231-8470

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| I Welcome and Call to Order | Father Richard Gorman, Chair |
| II Consider, Adopt November CFMC Agenda | CFMC Representatives |
| III Consider, Adopt 10/18/14 Meeting Minutes | CFMC Representatives |
| IV Presentation by Independent Budget Office
About Croton Costs | Elizabeth Brown & Justin
Bland, IBO |
| V Comments by DEP About Croton Costs
And Water Rates | Steven Lawitts, DEP |
| VI Croton Costs Report & Construction Schedule | Bernard Daly, DEP |
| VII Discussion - Old Business

<i>Update on Jogging Path Project</i>
<i>Update- JPR Tree Replanting</i> | CFMC Representatives, Agencies &
Public
Andrew Penzi, DPR
DPR |
| VIII Discussion - New Business

<i>Chair Rotation to CB #7 for 2015</i> | CFMC Representatives |
| IX CFMC Discussion &.Set Date of Next
CFMC Meeting | CFMC Representatives |
| X Adjourn | |



THE CITY OF NEW YORK
INDEPENDENT BUDGET OFFICE

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November 25, 2014

Father Richard Gorman
Chairman, Croton Facility Monitoring Committee
c/o Bronx Community Board 12
4101 White Plains Road Bronx, NY 10466

Dear Father Gorman:

At your request the Independent Budget Office has prepared an update on the costs associated with building the Croton Water Filtration Plant. According to our analysis of the city's capital spending, the costs related to the Croton Water Filtration Plant are now expected to total \$3.7 billion. Of that amount, \$3.5 billion has already been committed and \$157.4 million in additional commitments are planned through fiscal year 2020. This total includes spending on the construction of the plant, the rehabilitation of the New Croton Aqueduct (NCA), and related amenity and mitigation projects.

The enclosed memo provides additional details on the project's costs, as well as highlights changes that have occurred since IBO's last update to the Croton Facility Monitoring Committee in November 2011. We have also provided three appendices. Contained in these appendices are: details on the contracts for the construction of the plant and the rehabilitation of the NCA; cost information for each of the related mitigation projects; and a comparison between the current set of mitigation projects and those outlined in the 2004 memorandum of understanding between New York City and New York State.

If you have any questions or would like additional information, please feel free to contact me at (212)341-6086 or Elizabethb@ibo.nyc.ny.us or Justin Bland, IBO's environmental analyst who did this study, at 212-341-6088 or Justinb@ibo.nyc.ny.us.

Sincerely,

A handwritten signature in cursive script that reads 'Elizabeth Brown'.

Elizabeth Brown
Supervising Analyst
Housing, Environment, and Infrastructure

MEMORANDUM

DATE: November 25, 2014
 TO: Croton Facility Monitoring Committee
 FROM: New York City Independent Budget Office
 SUBJECT: **Update on the Costs of the Croton Filtration Plant and Associated Projects**

At the request of the Croton Facility Monitoring Committee (CFMC), the Independent Budget Office has prepared an update on the costs associated with building the Croton Water Filtration Plant located under the Mosholu Golf Course in Van Cortlandt Park in the Bronx. IBO's analysis of the city's capital spending data indicates that the capital costs related to the Croton Water Filtration Plant are now projected to total \$3.7 billion. Of that amount, \$3.5 billion has already been committed and \$157.4 million in additional commitments are planned through fiscal year 2020. Included in this sum are expenses for the construction of the plant, the rehabilitation of the New Croton Aqueduct (NCA), and spending on related mitigation and amenity projects.

This memo provides a summary of the project's current budget and highlights the notable changes that have occurred since IBO's last update on these costs, which we presented to the CFMC in November 2011. We have also included three detailed appendices. The first appendix presents a summary of the project's capital costs, along with contract details for the construction of the plant and rehabilitation of the aqueduct. The second appendix provides cost information for each of the related mitigation and amenity projects. (In 2004 the city and state signed a memorandum of understanding (MOU) that outlined the mitigation activities the city was obligated to undertake to compensate the Bronx for the loss of parkland due to the construction of the water filtration plant.) The third appendix provides a comparison between the current set of mitigation projects and costs, and those outlined in the 2004 MOU.

Croton Filtration Plant & Related Costs Total \$3.7 Billion

Project Detail <i>Dollars in millions</i>	Committed/ Current Contract Amount	2015-2020 Planned	Projected Total Since Inception
Croton Filtration Plant Construction	\$3,094.8	\$86.9	\$3,181.7
Filtration Plant Construction Costs	2,276.9	-5.0	2,271.9
Plant Design and Construction Management	636.6	49.9	686.5
Off-site Facility	152.9	10.0	162.9
Force Main	3.5	-	3.5
IFA Croton Filtration Plant	24.9	17.0	41.9
Planned Wrap-Up Costs	-	15.0	15.0
New Croton Aqueduct Construction Costs	\$179.2	\$11.7	\$190.9
Capital Mitigation & Amenity Projects	\$252.8	\$58.9	\$311.6
Expense Mitigation & Amenity Projects	\$12.5	-	\$12.5
Total Croton Filtration Plant & Related Projects	\$3,539.3	\$157.4	\$3,696.7

SOURCES: IBO analysis of data from the New York City Financial Management System, Department of Environmental Protection, and Mayor's Office of Management and Budget's Adopted Capital Commitment Plan for FY 2015.

NOTES: Committed amounts as of 10/23/2014, except for Capital Mitigation & Amenity Projects, which are as of 7/1/2014. Totals may not add due to rounding. IFA, or Interfund Agreement, represents expense budget spending related to a capital project funded from capital financing sources. IFA is included in the New Croton Aqueduct and Mitigation & Amenities Projects amounts. The city typically does not include IFA spending in the capital budget. IBO includes it to represent the full cost of the project.

Costs for the Croton Filtration Plant and New Croton Aqueduct

According to our analysis of contracts entered into by the city, the cost of building the Croton Water Filtration Plant is expected to total about \$3.2 billion by the end of fiscal year 2020. Of this, nearly \$3.1 billion has already been committed by the Department of Environmental Protection (DEP) and the remaining \$86.9 million is planned over the next several years.

The largest share of the plant's cost (nearly \$2.3 billion) is for the construction contracts at the water treatment plant site. While most of these funds have already been committed, \$5.0 million is planned to be moved from the construction contracts to management contracts this fiscal year. Design and management contracts—which also include payments to Con Edison, the construction of the New Croton Lake Gatehouse, and reconstruction of the Mosholu Golf Course clubhouse—are expected to total \$686.5 million, of which \$636.6 million has already been committed. Costs for off-site facility contracts, which include work performed at Jerome Park Reservoir and Gatehouse No. 1, are budgeted to total \$162.9 million, with \$152.9 million already committed. The city has also spent \$3.5 million on a canceled contract for the force main route that was originally planned to divert wastewater from the filtration plant to the Hunts Point Wastewater Treatment Plant. The city plans to spend an additional \$15.0 million on wrap-up projects, including an improved leak detection system and construction of a force main to convey groundwater to the Harlem River, that will largely be completed after the filtration plan is operational. Lastly, IBO includes \$41.9 million in Interfund Agreement (IFA) spending related to these projects, of which \$24.9 million has been committed. (IFA funds flow through the city's expense budget but are for capital-related costs and are funded through capital financing. The city typically does not include IFA spending in the capital budget; however, IBO includes it to reflect the full cost of the project.)

In addition to the plant, rehabilitation activities for the New Croton Aqueduct—which when completed will convey water from the New Croton Reservoir through the Croton Filtration Plant and onto the city's water distribution network—are expected to total \$190.9 million. Presently, \$179.2 million has been committed and \$11.7 million more are planned. Over half of the total cost, \$117.4 million, is for the general NCA rehabilitation contract. Other costs include demolition and supervision contracts. IBO has also included \$21.8 million for IFA expenses in the total NCA cost. Details on all these contracts can be found in Appendix 1.

Mitigation and Amenities Costs

As previously mentioned, in order to move forward with the construction of the filtration plant, the city was required to undertake projects to compensate the neighboring area for the loss of parkland. The 2004 MOU between the city and state specified that the city spend \$200 million on mitigation activities. It provided a list of 64 eligible projects with associated costs totaling \$218.9 million. (Eligible projects were defined as capital projects that either involved the acquisition of parkland by the city's Department of Parks and Recreation in the Bronx or made improvements to existing Bronx parks, playgrounds, or other recreational facilities). The decisions on which of the eligible projects to actually proceed was to be determined later. In addition to the MOU activities, the city was also required to complete another set of mitigation projects specified during the city's Uniform Land Use Review Procedure (ULURP).

According to the city's current capital commitment plan, spending on the Croton mitigation capital projects is now expected to total \$311.6 million by the end of fiscal year 2020, with most mitigation projects managed by

the city's parks department, not DEP. This includes \$264.5 million for MOU projects and \$47.1 million for ULURP projects. Thus, the city expects it will spend \$45.6 million more than the amount estimated for projects outlined in the MOU. As expected, not all projects included in the MOU have been funded and in the interim, other eligible projects not originally specified in the MOU have been added over the years. While the total amount currently projected is greater than the estimated costs for the MOU projects, the difference between actual costs and MOU amounts varies from project to project, with some projects receiving more funding than projected in the MOU and some projects receiving less. The differences at the individual project level are provided in Appendix 3.

Of the total expected mitigation capital spending, \$252.8 million has already been committed with an additional \$58.9 million planned through fiscal year 2020. More than half of planned mitigation funds are for MOU projects (\$33.0 million) with the remainder of planned funds budgeted by DEP for additional ULURP mitigation projects to be determined once construction is complete (\$25.4 million), as well as \$428,000 still planned for parks department projects specified during the ULURP stage. In addition to these capital projects, the city has spent \$12.5 million through its expense budget for forestry management projects in Van Cortlandt Park. Once again, IBO's reported mitigation costs include IFA.

Changes Since 2011

IBO produced a similar update on the costs associated with the Croton Water Filtration Plant in November 2011. In the three years since that presentation, the total expected cost for the plant and related projects has increased by \$238.3 million, from \$3.5 billion in 2011 to the current budget of \$3.7 billion. The city has made an additional \$323.2 million in commitments since our 2011 update, while planned amounts have decreased by \$84.9 million as the project is closer to completion and funds have shifted from planned amounts to commitments.

Total Projected Croton Costs Increased 6.9 Percent Since IBO's 2011 Estimate

Project Detail <i>Dollars in millions</i>	Projected Total from IBO's 2011 Update	Projected Total from IBO's 2014 Update	Change	% Change
Croton Filtration Plant Construction	\$3,014.3	\$3,181.7	\$167.4	5.6%
Filtration Plant Construction Costs	2,181.1	2,271.9	90.8	4.2%
Plant Design and Construction Management	628.0	686.5	58.5	9.3%
Off-site Facility	145.8	162.9	17.0	11.7%
Force Main	31.1	3.5	-27.7	-88.8%
IFA Croton Filtration Plant	28.2	41.9	13.7	48.7%
Planned Wrap-Up Costs	-	15.0	15.0	-
New Croton Aqueduct Construction Costs	\$181.2	\$190.9	\$9.6	5.3%
Capital Mitigation & Amenity Projects	\$254.7	\$311.6	\$56.9	22.3%
Expense Mitigation & Amenity Projects	\$8.2	\$12.5	\$4.4	53.3%
Total Croton Filtration Plant & Related Projects	\$3,458.4	\$3,696.7	\$238.3	6.9%

SOURCES: IBO analysis of data from the New York City Financial Management System, the Department of Environmental Protection, and the Mayor's Office of Management and Budget's Adopted Capital Commitment Plan for FY 2015.

NOTES: Committed amounts as of 10/28/2011 and 10/23/2014, except for Capital Mitigation & Amenity Projects, which are as of 7/1/2011 and 7/1/2014, respectively. Totals may not add due to rounding. IFA is also included in the New Croton Aqueduct and Mitigation & Amenities Projects subtotals.

More than two-thirds of the increase in the project's total expected cost comes from growth in the plant's construction, design and management, and off-site facility contracts. Construction contract costs have increased by \$90.8 million since 2011, while design and management contracts have increased by \$58.5 million, and off-site facility costs have increased by \$17.0 million. Another component of the growth in plant construction costs is an increase of \$13.7 million in IFA. Lastly, \$15.0 million in planned costs for wrap-up projects that were not budgeted in 2011 have been added to our current update. These increases in the plant cost were offset slightly by a decrease in the costs for the force main, a \$27.7 million decrease since 2011 as the contract amounts have been revised to reflect the cancellation of the project.

The costs for the New Croton Aqueduct rehabilitation have increased by \$9.6 million since 2011, accounting for about 4 percent of the growth in the project's budget. This is due to an \$18.0 million increase in IFA for this project, offsetting a decrease in construction costs of \$8.4 million.

For all mitigation capital projects, total costs have increased by \$56.9 million since our 2011 presentation. Nearly all of this increase, \$54.2 million, comes from MOU projects, and \$35.3 million of this is for projects created after our last update, including funds for Harris Park and MLK Triangle. ULURP project costs have increased by \$2.7 million. As previously stated, the city now plans to spend \$45.6 million more than the amount estimated for projects outlined in the MOU. This is a significant change from our 2011 comparison where the city was projecting to spend \$8.6 million below the MOU threshold.

Appendix 1

Independent Budget Office
Croton Filtration Plant Budget Summary

Reference	Description of Work	A Committed/ Current Contract Amount as of 10/23/2014	B 2015-2020 Planned	A+B Projected Total Since Inception
CRO-311	WTP Site Preparation	\$113,214,786	\$0	\$113,214,786
CRO-312G	WTP Construction - General	\$1,513,028,059	-\$8,695,962	\$1,504,332,097
CRO-312E1	WTP Construction - Low Voltage Electrical	\$184,821,814	\$2,785,167	\$187,606,981
CRO-312E2	WTP Construction - High Voltage Electrical	\$49,997,077	\$26,812	\$50,023,889
CRO-312H	WTP Construction - HVAC	\$135,331,596	\$414,088	\$135,745,684
CRO-312P	WTP Construction - Plumbing	\$74,899,216	\$463,000	\$75,362,216
CRO-313	Water Conveyance & Connecting Tunnels	\$205,645,619	\$0	\$205,645,619
	Subtotal, Filtration Plant Construction Costs	\$2,276,938,168	-\$5,006,895	\$2,271,931,273
CRO-312OS-G	Off-site Facility - General	\$132,194,158	\$1,319,339	\$133,513,497
CRO-312OS-E	Off-site Facility - Electrical	\$18,733,567	\$8,647,337	\$27,380,904
CRO-312OS-H	Off-site Facility - HVAC	\$878,971	\$0	\$878,971
CRO-312OS-P	Off-site Facility - Plumbing	\$1,110,455	\$0	\$1,110,455
	Subtotal, Off-site Facility	\$152,917,151	\$9,966,676	\$162,883,827
CRO-312FM	Original Force Main Route to the Hunts Point Plant	\$3,488,300	\$0	\$3,488,300
	Subtotal Force Main	\$3,488,300	\$0	\$3,488,300
HED-543 DES	WTP Design	\$299,495,499	\$0	\$299,495,499
HED-545CM	WTP Construction Management	\$159,652,791	\$0	\$159,652,791
CRO-312CE	Con Edison Payment	\$4,074,526	\$0	\$4,074,526
CRO-310	Traffic Improvements	\$0	\$0	\$0
HED-CLUB	Club Reconstruction	\$6,096,538	\$45,903,000	\$51,999,538
HED-545 / FIRST TEE	Payments to First Tee (Parks Golf Course Concessionaire)	\$19,020,805	\$655,000	\$19,675,805
826 BRONX-HS	Bronx Science HS Air Conditioners	\$525,466	\$0	\$525,466
826 CRO-186	Construction of the New Croton Lake Gatehouse, Westchester County	\$12,987,691	\$0	\$12,987,691
826 PROCSS-99	Croton Watershed Process Studies	\$8,657,123	\$0	\$8,657,123
801 PUTNAMROW	Putnam Rail Road - Right of Way (Agency 801)	\$176,700	\$0	\$176,700
	OMB Value Engineering (Agency 002)	\$1,242,988	\$0	\$1,242,988
	Active contracts in 1999 (FY2000) that were moved from IFMS to FMS with a "CONVERTED" project ID.	\$124,623,873	\$0	\$124,623,873
	Design Wrap-Up Contract	\$0	\$1,500,000	\$1,500,000
	Construction Management Wrap-Up Contract	\$0	\$1,500,000	\$1,500,000
	CFP Outfitting	\$0	\$387,000	\$387,000
	Subtotal Plant Design and Construction Management	\$636,553,999	\$49,945,000	\$686,498,999
	IFA Croton Filtration Plant	\$24,884,136	\$17,000,000	\$41,884,136
	Planned Wrap-Up Costs	\$0	\$15,000,000	\$15,000,000
	Total Croton Filtration Plant Construction	\$3,094,781,754	\$86,904,781	\$3,181,686,535

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Appendix 1

Independent Budget Office
Croton Filtration Plant Budget Summary

Reference	Description of Work	A Committed/ Current Contract Amount as of 10/23/2014	B 2015-2020 Planned	A+B Projected Total Since Inception
<i>From first page of table</i>				
Total Croton Filtration Plant Construction		\$3,094,781,754	\$86,904,781	\$3,181,686,535
New Croton Aqueduct (NCA) Construction Costs				
CRO-333	NCA Investigation & Baseline Rehabilitation	\$32,179,110	\$0	\$32,179,110
CRO-334-G	NCA Rehabilitation-General	\$115,704,538	\$1,661,874	\$117,366,412
CRO-334-E	NCA Rehabilitation-Electrical	\$1,461,215	\$0	\$1,461,215
CRO-334CM	Supervision for NCA Rehabilitation	\$9,142,447	\$0	\$9,142,447
CRO-315G	Demo & Modifications of Structures-General	\$3,655,894	\$0	\$3,655,894
CRO-315E	Demo & Modifications of Structures-Electrical	\$952,191	\$0	\$952,191
CRO-477	Emergency Declaration	\$4,303,126	\$0	\$4,303,126
Subtotal New Croton Aqueduct Construction		\$167,398,521	\$1,661,874	\$169,060,395
IFA New Croton Aqueduct		\$11,800,000	\$10,000,000	\$21,800,000
Total New Croton Aqueduct Construction		\$179,198,521	\$11,661,874	\$190,860,395
Mitigation & Amenities (all lines include IFA)				
826 CLEMENTE	Reconstruction of Roberto Clemente Park (excl. \$10 m in State Funds)	\$10,000,000	\$0	\$10,000,000
826 CRO-M&A	Mitigation & Amenities (Original ULURP)	\$0	\$25,386,000	\$25,386,000
826 GREEN-BX	Tree Planting in the Bronx	\$10,000,000	\$0	\$10,000,000
Mitigation Parks Projects		\$232,782,868	\$33,476,000	\$266,258,868
Total Capital Mitigation & Amenities (incl. IFA)		\$252,782,868	\$58,862,000	\$311,644,868
Croton Forestry Management (Expense Budget)		\$12,523,496	<i>annual transfer</i>	
Total Expense Mitigation & Amenities		\$12,523,496		\$12,523,496
TOTAL Croton Filtration Plant (incl. Construction, Mitigation & Amenities, NCA, and IFA)		\$3,539,286,639	\$157,428,655	\$3,696,715,294
SOURCE: IBO analysis of data from the NYC Financial Management System, the Department of Environmental Protection, and the Mayor's Office of Management and Budget's Adopted Capital Commitment Plan for Fiscal Year 2015. Planned commitments by capital project ID retrieved from NYC Financial Management System on 10/23/2014.				
NOTES: IFA, an Interfund Agreement, represents expense budget spending related to a capital project that is funded from capital financing sources. The City typically does not include IFA spending in the capital budget. IBO includes it to represent the full cost of the project. IFA is not shown separately for Mitigation and Amenities projects. Actual commitments for Mitigation Parks Projects are as of 7/1/2014.				
Certain figures were provided by DEP: The committed amount for CRO-186, \$12,987,691, was provided by DEP and includes funds committed prior to 2000 that are not reflected in the current FMS 2 system, which reflects \$454,000 in commitments for this project. DEP provided the committed and planned amounts for CRO-333, OMB Value Engineering, "Converted Projects," and the contract-level planned amounts for WTP construction.				

Appendix 2

Independent Budget Office

Croton Filtration Plant Mitigation & Amenities Projects

Projects Managed by Department of Environmental Protection

Capital Project ID	Project Description	2000-2014 Committed	2015-2020 Planned	Total Since Inception
CLEMENTE	IMPROVEMENTS TO ROBERTO CLEMENTE STATE PARK (inc IFA)	\$10,000,000	\$0	\$10,000,000
GREEN-BX	GREENING THE BRONX, MITIGATION & AMENITIES, BRONX PARKS	10,000,000	0	10,000,000
Subtotal DEP Managed Projects		\$20,000,000	\$0	\$20,000,000

Projects Managed by Department of Parks and Recreation

Capital Project ID	Project Description	2000-2014 Committed	2015-2020 Planned	Total Since Inception
P-1CROT01	BRONX RIVER GREENWAY : RIVER PK X002-105M	\$1,590,087	\$0	\$1,590,087
P-1CROT02	BRONX RIVER GNWAY: BIRCHALL/180TH ST CONNECTION X002-107M	3,379,366	37,000	3,416,366
P-1CROT03	SOUNDVIEW TO FERRY POINT GREENWAY XG-1105M	3,478,684	0	3,478,684
P-102CEME	BRONX RIVER-CONCRETE PLANT PARK - XG-31700-201M, 205M	6,409,516	0	6,409,516
P-1CROT05	PUTNAM TRAIL: AQUISITION OF RIGHT OF WAY	0	1,516,000	1,516,000
P-1CROT06	BRONX RIVER GREENWAY: MULTI USE PATH 233 ST X004-106M	849,839	2,225,000	3,074,839
P-1CROT07	HUTCHINSON RIVER GREENWAY X101-107M	3,901,331	0	3,901,331
P-1SOUARM	SOUNDVIEW SALT MARSH RESTORE W/ARMY CORPS X118-610M	3,217,765	0	3,217,765
P-1CROT09	PELHAM BAY PARK: WATERFRONT DEVELOPMENT	3,816,500	980,000	4,796,500
P-1CROT10	REGATTA PARK- WASHINGTON BRIDGE PARK RC X094-106M	148,137	0	148,137
P-1CROT11	REGATTA PARK: WATERFRONT ACCESS TN-08X-07	2,561	2,234,000	2,236,561
P-1CROT12	PUGSLEY CREEK SALT MARSH & BUFFER RESTOR X088-506M&106M OMBP	1,400,353	83,000	1,483,353
P-1CROT13	VC PK- RECON HEADHOUSE & DEMOLISH GREENHOUSE X092-207M	606,508	3,411,000	4,017,508
P-1CRO13A	VAN CORTLANDT PARK NURSERY X092/607M	1,181,866	0	1,181,866
P-1CROT14	AQUEDUCT WALK - COMF. STATION X001-207M/507M	316,880	1,432,000	1,748,880
P-1CROT16	BRONX RIVER GRWAY RIVER HOUSE IN STARLIGHT PK X147-107M/407M	1,281,940	0	1,281,940
P1CROT16A	Bronx River Grway River House in Starlight Pk X147-107M/407M	11,539,153	1,974,000	13,513,153
P-1CROT17	WILLIAMSBRIDGE OVAL PK-SYNTHETIC TURF & TRACK X104-306M	3,936,226	0	3,936,226
P-1CRO17A	WILLIAMSBRIDGE OVAL PARK -RECR BLDG X104-207M/507M	6,202,214	670,000	6,872,214
P-1CRO17B	WILLIAMSBRIDGE OVAL PLGD 1 & 3 AND SPRAY PLAZA X104-107MA	6,107,521	0	6,107,521
P-1CROT18	FERRY POINT PARK - PHASE I X126-107M	3,898,531	0	3,898,531
P-1CROT19	HARRIS PARK ATHLETIC FIELDS X136-106M	15,602,472	1,257,000	16,859,472
P-1CROT20	ORCHARD BEACH: PORTIONS OF BATHHOUSE X039-107M	880,798	0	880,798
P-1CRO20A	ORCHARD BEACH SCAFFOLDING X039-309M-OMBP	61,127	0	61,127
P-1CROT21	PELHAM BAY PARK: BRIDLE TRAILS X039-607M	907,979	0	907,979
P-1CROT22	VAN CORTLANDT PK: ALLEN SHANDLER RECREATION AREA X092-707M	1,563,387	0	1,563,387
P-1CROT23	VAN CORTLANDT PK: DISTRICT HQS & COMF STAT X092-106M	2,221,201	0	2,221,201
P-1CROT24	VAN CORTLANDT PK: PARADE GROUNDS X092-107M	14,586,715	1,000	14,587,715
P-1CROT25	CROTONA PARK: C/S AND OPERATIONS FACILITY X010-306M	238,000	0	238,000
P-1CROT27	BRONX PARK: 219TH STREET ENTRANCE X004-107M	742,176	0	742,176
P-1CROT28	JEROME PARK RESERVOIR-RECREATIONAL PATHWAY XG-20000-107M	4,301,175	500,000	4,801,175
P-1CROT30	SOUNDVIEW PARK: NATURAL AMPHITHEATER X118-107M	417,426	0	417,426
P-1CROT31	AQUEDUCT LANDS: BASKETBALL CTS & PLGD X001-105M	2,046,140	0	2,046,140
P-1CROT32	AQUEDUCT WALK X001-107M	4,974,420	246,000	5,220,420
P-1CROT36	PELHAM PARKWAY MALLS X003-107M	478,446	1,450,000	1,928,446
P-1CROT37	CROTONA PARK: NATURAL AMPHITHEATER X010-107M	1,983,622	0	1,983,622
P-1CROT38	CROTONA PARK: LAKE RESTORATION X010-706M	5,159,506	0	5,159,506

Appendix 2

Independent Budget Office
Croton Filtration Plant Mitigation & Amenities Projects

Projects Managed by Department of Parks and Recreation (continued)

Capital Project ID	Project Description	2000-2014 Committed	2015-2020 Planned	Total Since Inception
P-1CROT41	MELROSE PLAYGROUND X154-106M	\$1,488,254	\$0	\$1,488,254
P-1CROT42	STORY PLAYGROUND RC OF P. S. 100 X204-106M	5,859,185	0	5,859,185
P-1CRO42A	STORY PLGD COMFORT STATION X204-105MA1/405M	639,650	163,000	802,650
P-1CROT44	PUGSLEY CREEK - FIELD OF DREAMS BFLDS & SITEWORK X088-207M	1,321,749	0	1,321,749
P-1CROT45	PUGSLEY CREEK PK - Construct basketball court X088-111M	281,000	1,086,000	1,367,000
P-1CROT46	HINES PARK - RECONST OF RETAINING WALL X026-107M	555,638	0	555,638
P-1CROT47	OWEN DOLEN GOLDEN RECREATION CENTER X016-107M	1,367,010	0	1,367,010
P-1CROT48	CLARK PLAYGROUND RC X200-105M	1,570,838	0	1,570,838
P-1CROT49	MULLALY PARK - NORTH SECTION X034-107M	1,877,898	0	1,877,898
P-1CROT50	MANIDA PARK - PRIME BALLFIELD X260-105M	1,782,625	0	1,782,625
P-1CROT51	SEDGWICK PLAYGROUND X158-106M	2,182,094	0	2,182,094
P-1CROT52	DEVOE PARK -PLAYGROUND & MISCELL AREAS X013-105M	2,678,384	0	2,678,384
P-1CROT53	MOUNT HOPE PLAYGROUND X257-105M	1,821,700	0	1,821,700
P-1CROT54	ST. JAMES PARK - STEPS, WALLS AND PAVEMENTS X044-106M	1,971,497	0	1,971,497
P-1CRO54A	ST. JAMES PARK - INTERIOR SECTION X044-106M	2,525,455	0	2,525,455
P-1CRO54B	ST. JAMES PARK - PERIMETER SECTION X044-206M	1,045,000	0	1,045,000
P-1CROT55	WEBSTER PLAYGROUND RC X174-105M	1,765,876	0	1,765,876
P-1CROT56	GRANT PARK CONST OF NE PORTION- X271-102M	1,307,728	0	1,307,728
P-1CROT57	AMBROSINI PLAYGROUND AND BALLFIELD RC X253-105M	1,990,775	0	1,990,775
P-1CROT58	CAMPANARO PLAYGROUND	1,663,340	0	1,663,340
P-1CROT59	FULTON(DREW) PLAYGROUND - PHASE II X021-107M	1,105,257	0	1,105,257
P-1CROT60	HAFFEN PARK RC OF ATHLETIC FIELD X196-105M	1,107,721	0	1,107,721
P-1CROT61	SETON FALLS PARK X046-105M	1,351,688	0	1,351,688
P-1CROT62	EDENWALD PLAYGROUND X165-105M	1,859,485	0	1,859,485
P-1CROT63	TREMONT PARK X010-806M	4,422,032	0	4,422,032
P-1CROT64	DEVOE PK RC OF COMFORT STATION X013-106M/406M	1,483,722	0	1,483,722
P-1CROT66	FERRY POINT PK - COMFORT STATION X126-106M	441,420	429,000	870,420
P-1CRO66A	PDF - Ferry Point Park - Comfort Station General X126-106MA	0	4,386,000	4,386,000
P-1CROT67	MULLALY PARK - SOUTH SECTION X034-106M	4,233,291	0	4,233,291
P-1CROT68	MULLALY PARK - SKATE BUILDING X034-207M	3,140,362	659,000	3,799,362
P-1CROT69	GRANT AVE PARK - RETAINING WALLS X271-106M	2,126,601	0	2,126,601
P-1CROT71	RECONS. OF MEZZANINE INTERIOR AT BATH HOUSE X010-308MA	238,518	1,694,000	1,932,518
P-1CROT72	SYNTHETIC FIELD AT CROTONA PARK X010-109M	893,810	0	893,810
P-1CROTOA	CROTON - PELHAM BAY PK & DREW PLGD(PHASE I) XG-905M	4,799,042	0	4,799,042
P-1CROTOB	MULTI-SITE-SYNTH TURF B/FLDS & ADJ SITEWORK(CROTON) XG-506M	8,985,787	0	8,985,787
P-1CROTOC	CROTON MULTI-SITE PLGDS XG-	454,257	0	454,257
P-1ORCHB	Orchard Beach Erosion Ctrl & Beach Restoration X039-110M	6,500,000	0	6,500,000
P-110PBPS	PELHAM BAY PARK - NATURE CENTER X039-106M	2,440,787	0	2,440,787
P-6BBLDG7	FY07 Building Requirements (CNYG 907M)	2,222,016	149,000	2,371,016
P-6BLDG9A	FY10 Building Requirements (CNYG-209M)	3,560,006	1,599,000	5,159,006
P-6BLDG9C	FY10 Building Requirements (CNYG-409M)	1,273,847	463,000	1,736,847
P-1AQWALK	MLK Triangle/Aqueduct Walk X001-114M	220,445	1,939,000	2,159,445
P-1CRO19	Harris Park - Reconstruct perimeter, construct new fence	252,000	1,509,000	1,761,000
P-1PNYC04	PlaNYC - Soundview performance lawn X118-510MA	3,228,113	253,000	3,481,113
P-1TRE15A	FY15 Street Tree Planting, Bronx CB's 1-8, XG-115M	0	703,000	703,000
Subtotal MOU Projects		\$211,465,469	\$33,048,000	\$244,513,469

Appendix 2

Independent Budget Office

Croton Filtration Plant Mitigation & Amenities Projects

ULURP Parks Projects

Capital Project ID	Project Description	2000-2014 Committed	2015-2020 Planned	Total Since Inception
P-1CROUL1	VAN CORT PLGD & COMF. STAT(SACHKERAH WOODS) X092-400MA/700MA	\$2,707,742	\$0	\$2,707,742
P-1CROUL3	VAN CORTLANDT PARK: OLD CROTON AQUEDUCT TRAIL	1,506,717	0	1,506,717
P-1CROUL5	CROTON - BRONX TREE PLANTING XG-1005M	348,937	12,000	360,937
P-1CROUL6	VAN CORTLANDT PARK: OLD CROTON AQUEDUCT TRAIL PHASE II	2,815,677	31,000	2,846,677
P-1CROUL7	SIGNAGE FROM VAN CORTLANDT TO BRYANT PARK CNYG-1008M	152,794	385,000	537,794
P-1IRRIG	GOLF COURSE IRRIGATION - BRONX XG-200M	12,704,788	0	12,704,788
P-1SHANDL	SHANDLER RECREATION AREA X092-101M	79,836	0	79,836
P-6ETREES	GREENSTREETS - CITYWIDE CNYG-1505M	384,320	0	384,320
P-1BTREES	TREE PLANTING - BRONX XG-505M	616,588	0	616,588
Subtotal ULURP Projects		\$21,317,399	\$428,000	\$21,745,399
Parks Department Managed Mitigation and Amenities		\$232,782,868	\$33,476,000	\$266,258,868

Total Croton Mitigation & Amenities	\$252,782,868	\$33,476,000	\$286,258,868
SOURCES: IBO analysis of data from the Department of Environmental Protection, Mayor's Office of Management and Budget's Adopted Capital Commitment Plan for Fiscal Year 2015			
NOTE: All figures include Interfund Agreement (IFA) which represents expense budget spending related to a capital project that is funded from capital financing sources.			

Croton Filtration Plant Mitigation & Amenities Projects
 2004 Memorandum of Understanding

Projects Managed by Department of Environmental Protection

Reference (Capital Project ID)	Project Description	2000-2014 Committed (inc IFA)	Planned 2015-2020 (inc IFA)	Total Since Inception (inc IFA)	2004 MOU List	Difference (Positive=Spending More than MOU, Negative=Spending Less than MOU)
CLEMENTE GREEN-BX	IMPROVEMENTS TO ROBERTO CLEMENTE STATE PARK (inc IFA) GREENING THE BRONX, MITIGATION & AMENITIES, BRONX PARKS	\$10,000,000 10,000,000	\$0 0	\$10,000,000 \$10,000,000	\$10,000,000 10,000,000	\$0 0
Subtotal DEP Managed Projects		\$20,000,000	\$0	\$20,000,000	\$20,000,000	\$0

Projects Managed by Department of Parks and Recreation

In order to compare the MOU to current projects, some projects were combined (highlighted in green). The combined projects have the same number meaning they represent the same item in the MOU (ie P-1CROT13 and P-1CROT13A would be summed). This table is intended to facilitate comparison with the MOU, which listed eligible projects totaling \$219 million, rather than the specific set of projects that the Parks department was expected to undertake for \$200 million.

Reference (Capital Project ID)	Project Description	2000-2014 Committed (inc IFA)	Planned 2015-2020 (inc IFA)	Total Since Inception (inc IFA)	2004 MOU List	Difference (Positive=Spending More than MOU, Negative=Spending Less than MOU)
P-1CROT01	BRONX RIVER GREENWAY : RIVER PK X002-105M	\$1,590,087	\$0	\$1,590,087	\$1,000,000	\$590,087
P-1CROT02	BRONX RIVER GNWAY: BIRCHALL/180TH ST CONNECTION X002-107M	3,379,366	37,000	3,416,366	3,500,000	(83,634)
P-1CROT03	SOUNDVIEW TO FERRY POINT GREENWAY XG-1105M	3,478,684	0	3,478,684	3,000,000	478,684
P-102CEME	BRONX RIVER-CONCRETE PLANT PARK - XG-31700-201M; 205M (replacement for P-1CROT04)	6,409,516	0	6,409,516	5,000,000	1,409,516
P-1CROT05	PUTNAM TRAIL: ACQUISITION OF RIGHT OF WAY	0	1,516,000	1,516,000	1,000,000	516,000
P-1CROT06	BRONX RIVER GREENWAY: MULTI USE PATH 233 ST X004-106M	849,839	2,225,000	3,074,839	5,000,000	(1,925,161)
P-1CROT07	HUTCHINSON RIVER GREENWAY X101-107M	3,901,331	0	3,901,331	2,500,000	1,401,331
P-1SQUARM	SOUNDVIEW SALT MARSH RESTORE W/ARMY CORPS X118-610M (replacement for P-1CROT08)	3,217,765	0	3,217,765	2,466,200	751,565
P-1CROT09	PELHAM BAY PARK: WATERFRONT DEVELOPMENT	3,816,500	980,000	4,796,500	8,000,000	(3,203,500)
P-1CROT10	REGATTA PARK- WASHINGTON BRIDGE PARK RC X094-106M	148,137	0	148,137	350,000	(201,863)
P-1CROT11	REGATTA PARK: WATERFRONT ACCESS TN-08X-07	2,561	2,234,000	2,236,561	1,800,000	436,561
P-1CROT12	PUGSLEY CREEK SALT MARSH & BUFFER RESTOR X088-506M&106M OMBP	1,400,353	83,000	1,483,353	850,000	633,353
P-1CROT13	P-1CROT13: VC PK- RECON HEADHOUSE & DEMOLISH GREENHOUSE X092-207M AND P-1CROT13A: VAN CORTLANDT PARK NURSERY X092/607M	1,788,374	3,411,000	5,199,374	3,000,000	2,199,374

Projects Managed by Department of Parks and Recreation

In order to compare the MOU to current projects, some projects were combined (highlighted in green). The combined projects have the same number meaning they represent the same item in the MOU (ie P-1CROT13 and P-1CROT13A would be summed). This table is intended to facilitate comparison with the MOU, which listed eligible projects totaling \$219 million, rather than the specific set of projects that the Parks department was expected to undertake for \$200 million.

Reference (Capital Project ID)	Project Description	2000-2014 Committed (inc IFA)	Planned 2015-2020 (inc IFA)	Total Since Inception (inc IFA)	2004 MOU List	Difference (Positive=Spending More than MOU, Negative=Spending Less than MOU)
P-1CROT14	AQUEDUCT WALK - COMF. STATION X001-207M/507M	316,880	1,432,000	1,748,880	1,800,000	(51,120)
15	Macombs Dam Park: Track Soccer & Ballfields	0	0	0	6,000,000	(6,000,000)
P-1CROT16	P-1CROT16 AND P-1CROT16A: BRONX RIVER GRWAY RIVER HOUSE IN STARLIGHT PK X147-107M/407M	12,821,093	1,974,000	14,795,093	5,000,000	9,795,093
P-1CROT17	P-1CROT17: WILLIAMSBRIDGE OVAL PK-SYNTHETIC TURF & TRACK X104-306M AND P-1CROT17A: WILLIAMSBRIDGE OVAL PARK -RECR BLDG X104-207M/507M AND P-1CROT17B: WILLIAMSBRIDGE OVAL PLGD 1 & 3 AND SPRAY PLAZA X104-107MA	16,245,961	670,000	16,915,961	15,000,000	1,915,961
P-1CROT18	FERRY POINT PARK - PHASE I X126-107M (see P-1CROT66 and 66A)	3,898,531	0	3,898,531	6,600,000	(2,701,469)
P-1CROT19	HARRIS PARK ATHLETIC FIELDS X136-106M	15,602,472	1,257,000	16,859,472	9,860,000	6,999,472
P1-CROT20	P-1CROT20: ORCHARD BEACH: PORTIONS OF BATHHOUSE X039-107M AND P-1CROT20A: ORCHARD BEACH SCAFFOLDING X039-309M-OMBP (see P-1ORCHB)	941,925	0	941,925	7,000,000	(6,058,075)
P-1CROT21	PELHAM BAY PARK: BRIDLE TRAILS X039-607M	907,979	0	907,979	1,000,000	(92,021)
P-1CROT22	VAN CORTLANDT PK: ALLEN SHANDLER RECREATION AREA X092-707M	1,563,387	0	1,563,387	1,300,000	263,387
P-1CROT23	VAN CORTLANDT PK: DISTRICT HQS & COMF STAT X092-106M	2,221,201	0	2,221,201	1,500,000	721,201
P-1CROT24	VAN CORTLANDT PK: PARADE GROUNDS X092-107M	14,586,715	1,000	14,587,715	16,500,000	(1,912,285)
P-1CROT25	CROTONA PARK: C/S AND OPERATIONS FACILITY X010-306M	238,000	0	238,000	2,500,000	(2,262,000)
26	Bronx Park Solomine Ballfield	0	0	0	3,000,000	(3,000,000)
P-1CROT27	BRONX PARK: 219TH STREET ENTRANCE X004-107M	742,176	0	742,176	400,000	342,176
P-1CROT28	JEROME PARK RESERVOIR-RECREATIONAL PATHWAY XG-20000-107M	4,301,175	500,000	4,801,175	5,000,000	(198,825)
29	Soundview Park	0	0	0	4,000,000	(4,000,000)
P-1CROT30	SOUNDVIEW PARK: NATURAL AMPHITHEATER X118-107M	417,426	0	417,426	875,000	(457,574)
P-1CROT31	AQUEDUCT LANDS: BASKETBALL CTS & PLGD X001-105M	2,046,140	0	2,046,140	2,000,000	46,140
P-1CROT32	AQUEDUCT WALK X001-107M	4,974,420	246,000	5,220,420	7,000,000	(1,779,580)
33	Pelham Bay Park: Middletown Road perimeter (see P-1CROTOA)	0	0	0	1,500,000	(1,500,000)
34	Pelham Bay Park: Picnic areas (see P-1CROTOA)	0	0	0	1,000,000	(1,000,000)
35	Pelham Bay Park: Tennis Courts (see P-1CROTOA)	0	0	0	2,225,000	(2,225,000)
P-1CROT36	PELHAM PARKWAY MALLS X003-107M	478,446	1,450,000	1,928,446	1,500,000	428,446
P-1CROT37	CROTONA PARK: NATURAL AMPHITHEATER X010-107M	1,983,622	0	1,983,622	2,500,000	(516,378)
P-1CROT38	CROTONA PARK: LAKE RESTORATION X010-706M	5,159,506	0	5,159,506	4,900,000	259,506

Projects Managed by Department of Parks and Recreation

In order to compare the MOU to current projects, some projects were combined (highlighted in green). The combined projects have the same number meaning they represent the same item in the MOU (ie P-1CROT13 and P-1CROT13A would be summed). This table is intended to facilitate comparison with the MOU, which listed eligible projects totaling \$219 million, rather than the specific set of projects that the Parks department was expected to undertake for \$200 million.

Reference (Capital Project ID)	Project Description	2000-2014 Committed (inc IFA)	Planned 2015-2020 (inc IFA)	Total Since Inception (inc IFA)	2004 MOU List	Difference (Positive=Spending More than MOU, Negative=Spending Less than MOU)
39	Roberto Clemente (NOT MANAGED BY PARKS DEPARTMENT)	0	0	0	0	0
40	Bronx Park Soccer Field and Skate Park	0	0	0	1,500,000	(1,500,000)
P-1CROT41	MELROSE PLAYGROUND X154-106M	1,488,254	0	1,488,254	1,500,000	(11,746)
P-1CROT42	P-1CROT42: STORY PLAYGROUND RC OF P. S. 100 X204-106M AND P-1CROT42A: STORY PLGD COMFORT STATION X204-105MA1/405M	6,498,835	163,000	6,661,835	7,300,000	(638,165)
43	Saturn Playground	0	0	0	375,000	(375,000)
P-1CROT44	PUGSLEY CREEK - FIELD OF DREAMS BFLDS & SITEWORK X088-207M	1,321,749	0	1,321,749	2,200,000	(878,251)
P-1CROT45	PUGSLEY CREEK PK - Construct basketball court X088-111M	281,000	1,086,000	1,367,000	1,200,000	167,000
P-1CROT46	HINES PARK - RECONST OF RETAINING WALL X026-107M	555,638	0	555,638	700,000	(144,362)
P-1CROT47	OWEN DOLEN GOLDEN RECREATION CENTER X016-107M	1,367,010	0	1,367,010	1,000,000	367,010
P-1CROT48	CLARK PLAYGROUND RC X200-105M	1,570,838	0	1,570,838	1,500,000	70,838
P-1CROT49	MULLALLY PARK - NORTH SECTION (see P-1CROT67 and 68)	1,877,898	0	1,877,898	1,500,000	377,898
P-1CROT50	MANIDA PARK - PRIME BALLFIELD X260-105M	1,782,625	0	1,782,625	1,018,800	763,825
P-1CROT51	SEDGWICK PLAYGROUND X158-106M	2,182,094	0	2,182,094	1,800,000	382,094
P-1CROT52	DEVOE PARK - PLAYGROUND & MISCELL AREAS (see P-1CROT64)	2,678,384	0	2,678,384	3,000,000	(321,616)
P-1CROT53	MOUNT HOPE PLAYGROUND X257-105M	1,821,700	0	1,821,700	2,000,000	(178,300)
P-1CROT54	P-1CROT54: ST. JAMES PARK - STEPS, WALLS AND PAVEMENTS X044-106M AND P-1CROT54A: ST. JAMES PARK - INTERIOR SECTION X044-106M AND P-1CROT54B: ST. JAMES PARK - PERIMETER SECTION X044-206M	5,541,952	0	5,541,952	5,000,000	541,952
P-1CROT55	WEBSTER PLAYGROUND RC X174-105M	1,765,876	0	1,765,876	1,600,000	165,876
P-1CROT56	GRANT PARK CONST OF NE PORTION- X271-102M (see P-1CROT69)	1,307,728	0	1,307,728	3,490,000	(2,182,272)
P-1CROT57	AMBROSINI PLAYGROUND AND BALLFIELD RC X253-105M	1,990,775	0	1,990,775	2,000,000	(9,225)
P-1CROT58	CAMPANARO PLAYGROUND	1,663,340	0	1,663,340	1,950,000	(286,660)
P-1CROT59	FULTON(DREW) PLAYGROUND - PHASE II (see P-1CROTOA)	1,105,257	0	1,105,257	1,600,000	(494,743)
P-1CROT60	HAFFEN PARK RC OF ATHLETIC FIELD X196-105M	1,107,721	0	1,107,721	1,250,000	(142,279)
P-1CROT61	SETON FALLS PARK X046-105M	1,351,688	0	1,351,688	1,000,000	351,688
P-1CROT62	EDENWALD PLAYGROUND X165-105M	1,859,485	0	1,859,485	2,000,000	(140,515)
P-1CROT63	TREMONT PARK X010-806M	4,422,032	0	4,422,032	5,000,000	(577,968)

Projects Managed by Department of Parks and Recreation

In order to compare the MOU to current projects, some projects were combined (highlighted in green). The combined projects have the same number meaning they represent the same item in the MOU (ie P-1CROT13 and P-1CROT13A would be summed). This table is intended to facilitate comparison with the MOU, which listed eligible projects totaling \$219 million, rather than the specific set of projects that the Parks department was expected to undertake for \$200 million.

Reference (Capital Project ID)	Project Description	2000-2014 Committed (inc IFA)	Planned 2015-2020 (inc IFA)	Total Since Inception (inc IFA)	2004 MOU List	Difference (Positive=Spending More than MOU, Negative=Spending Less than MOU)
P-1CROT64	DEVOE PK RC OF COMFORT STATION X013-106M/406M	1,483,722	0	1,483,722	0	1,483,722
P-1CROT66	FERRY POINT PK - COMFORT STATION X126-106M	441,420	429,000	870,420	0	870,420
P-1CRO66A	PDF - Ferry Point Park - Comfort Station General X126-106MA	0	4,386,000	4,386,000	0	4,386,000
P-1CROT67	MULLALLY PARK - SOUTH SECTION X034-106M	4,233,291	0	4,233,291	0	4,233,291
P-1CROT68	MULLALLY PARK - SKATE BUILDING X034-207M	3,140,362	659,000	3,799,362	0	3,799,362
P-1CROT69	GRANT AVE PARK - RETAINING WALLS X271-106M	2,126,601	0	2,126,601	0	2,126,601
P-1CROT71	RECONS. OF MEZZANINE INTERIOR AT BATH HOUSE X010-308MA	238,518	1,694,000	1,932,518	0	1,932,518
P-1CROT72	SYNTHETIC FIELD AT CROTONA PARK X010-109M	893,810	0	893,810	0	893,810
P-1CROTOA	CROTON - PELHAM BAY PK & DREW PLGD(PHASE I) XG-905M	4,799,042	0	4,799,042	0	4,799,042
P-1CROTOB	MULTI-SITE-SYNTH TURF B/FLDS & ADJ SITEWORK(CROTON) XG-506M	8,985,787	0	8,985,787	0	8,985,787
P-1CROTOC	CROTON MULTI-SITE PLGDS XG-	454,257	0	454,257	0	454,257
P-1ORCHB	Orchard Beach Erosion Ctrl & Beach Restoration X039-110M	6,500,000	0	6,500,000	0	6,500,000
P-110PBPS	PELHAM BAY PARK - NATURE CENTER X039-106M	2,440,787	0	2,440,787	0	2,440,787
P-6BBLDG7	FY07 Building Requirements (CNYG 907M)	2,222,016	149,000	2,371,016	0	2,371,016
P-6BLDG9A	FY10 Building Requirements (CNYG-209M)	3,560,006	1,599,000	5,159,006	0	5,159,006
P-6BLDG9C	FY10 Building Requirements (CNYG-409M)	1,273,847	463,000	1,736,847	0	1,736,847
P-1AQWALK	MILK Triangle/Aqueduct Walk X001-114M	220,445	1,939,000	2,159,445	0	2,159,445
P-1CRO19	Harris Park - Reconstruct perimeter, construct new fence	252,000	1,509,000	1,761,000	0	1,761,000
P-1PNYC04	PlaNYC - Soundview performance lawn X118-510MA	3,228,113	253,000	3,481,113	0	3,481,113
P-1TIRE15A	FY15 Street Tree Planting, Bronx CB's 1-8, XG-115M	0	703,000	703,000	0	703,000
Subtotal, MOU Projects Managed by Parks		\$211,465,469	\$33,048,000	\$244,513,469	\$198,910,000	\$45,603,469
Total, MOU Projects		\$231,465,469	\$33,048,000	\$264,513,469	\$218,910,000	\$45,603,469

SOURCES: IBO analysis of data from the Department of Environmental Protection, Mayor's Office of Management and Budget's Adopted Capital Commitment Plan for Fiscal Year 2015

NOTE: All figures include Interfund Agreement (IFA) which represents expense budget spending related to a capital project that is funded from capital financing sources.

UPDATE ON THE COSTS
OF THE CROTON
FILTRATION PLANT AND
ASSOCIATED PROJECTS

PREPARED FOR THE CROTON FACILITY
MONITORING COMMITTEE BY THE
NEW YORK CITY INDEPENDENT BUDGET
OFFICE

November 25, 2014

Justin Bland

IBO Summary of Croton Costs



- About IBO
- Update of past presentation
- Scope: focus is budget analysis, not an engineering review, not an audit
- Sources:
 - Contracts
 - Capital Commitment Plan
 - Department of Environmental Protection
- Interfund Agreement (IFA) included

Croton Filtration Plant & Related Costs Total \$3.7 Billion

Project Detail	Committed/ Current Contract Amount	2015-2020 Planned	Projected Total Since Inception
Croton Filtration Plant Construction	\$3,094.8	\$86.9	\$3,181.7
Filtration Plant Construction Costs	2,276.9	-5.0	2,271.9
Plant Design and Construction Management	636.6	49.9	686.5
Off-site Facility	152.9	10.0	162.9
Force Main	3.5	-	3.5
IFA Croton Filtration Plant	24.9	17.0	41.9
Planned Wrap-Up Costs	-	15.0	15.0
New Croton Aqueduct Construction Costs	\$179.2	\$11.7	\$190.9
Capital Mitigation & Amenity Projects	\$252.8	\$58.9	\$311.6
Expense Mitigation & Amenity Projects	\$12.5	-	\$12.5
Total Croton Filtration Plant and Related Projects	\$3,539.3	\$157.4	\$3,696.7

(dollars in millions)

SOURCES: IBO analysis of data from the NYC Financial Management System, the Department of Environmental Protection, and the Mayor's Office of Management and Budget's Adopted Capital Commitment Plan for Fiscal Year 2015.

NOTES: Committed amounts as of 10/23/2014, except for Capital Mitigation & Amenity Projects which is as of 7/1/2014. Totals may not add due to rounding. NCA Construction Costs, and Mitigation & Amenity Projects include IFA.

Mitigation and Amenities Total \$324.2 Million

Project Detail	Committed/ Current Contract Amount	2015-2020 Planned	Projected Total Since Inception
Reconstruction of Roberto Clemente Park (excl. \$10 m in State Funds)	\$10.0	-	\$10.0
Mitigation & Amenities (Original ULURP)	-	\$25.4	\$25.4
Tree Planting in the Bronx	\$10.0		\$10.0
Mitigation Parks Projects	\$232.8	\$33.5	\$266.3
Total Capital Mitigation & Amenities	\$252.8	\$58.9	\$311.6
Croton Forestry Management (Expense Budget)	\$12.5	-	\$12.5
Total Mitigation & Amenities	\$265.3	\$58.9	\$324.2

(dollars in millions)

SOURCES: IBO analysis of data from the NYC Financial Management System, the Department of Environmental Protection, and the Mayor's Office of Management and Budget's Adopted Capital Commitment Plan for Fiscal Year 2015.
NOTE: Totals may not add due to rounding. All costs include IFA.

MOU Projects Planned to Total \$45.6 Million More Than Amounts Detailed in 2004 MOU

Project Description	Committed/ Current Contract Amount (inc. IFA)	2015-2020 Planned (inc. IFA)	Projected Total Since Inception (inc. IFA)	2004 MOU List Difference (Positive=Spending More than MOU)
MOU Projects Managed by DEP	\$20.0	-	\$20.0	\$20.0
MOU Projects Managed by Parks	\$211.5	\$33.0	\$244.5	\$198.9
Total, MOU Projects	\$231.5	\$33.0	\$264.5	\$45.6
ULURP Projects Managed by Parks	\$21.3	\$0.4	\$21.7	n/a

(dollars in millions)

SOURCES: IBO analysis of data from the NYC Financial Management System, the Department of Environmental Protection, and the Mayor's Office of Management and Budget's Adopted Capital Commitment Plan for Fiscal Year 2015.

NOTE: Numbers may not add exactly due to rounding.

Total Projected Croton Costs Increased 6.9 Percent Since IBO's 2011 Estimate

Project Detail	Projected Total from IBO's 2011 Update	Projected Total from IBO's 2014 Update	Change	Percent Change
Croton Filtration Plant Construction	\$3,014.3	\$3,181.7	\$167.4	5.6%
Filtration Plant Construction Costs	2,181.1	2,271.9	90.8	4.2%
Plant Design and Construction Management	628.0	686.5	58.5	9.3%
Off-site Facility	145.8	162.9	17.0	11.7%
Force Main	31.1	3.5	-27.7	-88.8%
IFA Croton Filtration Plant	28.2	41.9	13.7	48.7%
Planned Wrap-Up Costs	-	15.0	15.0	-
New Croton Aqueduct Construction Costs	\$181.2	\$190.9	\$9.6	5.3%
Capital Mitigation & Amenity Projects	\$254.7	\$311.6	\$56.9	22.3%
Expense Mitigation & Amenity Projects	\$8.2	\$12.5	\$4.4	53.3%
Total Croton Filtration Plant and Related Projects	\$3,458.4	\$3,696.7	\$238.3	6.9%

Difference between Actual MOU Projects and 2004

Li**SOURCES:** IBO analysis of data from the NYC Financial Management System, the Department of Environmental Protection, and the Mayor's Office of Management and Budget's Adopted Capital Commitment Plan for Fiscal Year 2015. (dollars in millions)

NOTES: Committed amounts as of 10/28/2011 and 10/23/2014, except for Capital Mitigation & Amenity Projects which are as of 7/1/2011 and 7/1/2014, respectively. Totals may not add due to rounding. NCA Construction Costs, and Mitigation & Amenity Projects include IFA.

Questions or Comments?



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WM-11 Croton Water Treatment Plant
Cost Summary as of 10/31/2014

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	\$185,071,421	\$1,512,771,421	\$1,406,886,573	14%	93%
CRO-312E1	Schlesinger-Siemens, LLC	\$134,680,000	\$50,254,059	\$184,934,059	\$145,640,720	37%	79%
CRO-312E2	Schlesinger-Siemens, LLC	\$37,678,000	\$12,094,277	\$49,772,277	\$41,663,378	32%	84%
CRO-312H	Durr Mechanical Construction	\$105,700,000	\$29,631,596	\$135,331,596	\$125,350,643	28%	93%
CRO-312P	Picone/WDF, JV	\$58,475,000	\$16,424,216	\$74,899,216	\$71,539,716	28%	96%
CRO-312OS-G	Picone-Schiavone, JV	\$96,842,500	\$35,107,605	\$131,950,105	\$116,095,920	36%	88%
CRO-312OS-E	Eldor Electric	\$15,762,500	\$2,971,067	\$18,733,567	\$16,851,087	19%	90%
CRO-312OS-H	AWL Industries	\$822,000	\$56,971	\$878,971	\$637,594	7%	73%
CRO-312OS-P	JPP Plumbing	\$872,000	\$238,455	\$1,110,455	\$959,100	27%	86%
CRO-312FM (1)	Maspeth Supply Co. LLC	\$18,626,745	-\$15,138,445	\$3,488,300	\$2,432,351	-81%	70%
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		\$2,145,668,688	\$286,851,783	\$2,441,400,371	\$2,264,239,313	14%	92%
Croton WTP Design / Construction Management Costs							
HED-543 DES	Metcalf & Eddy / Hazen and Sawyer, JV	\$44,226,000	\$255,269,498	\$299,495,498	\$290,546,305	577%	97%
HED-545 CM	URS/Makolm Pimlie, JV	\$63,400,000	\$96,252,791	\$159,652,791	\$149,725,154	152%	94%
TOTAL		\$107,626,000	\$351,522,289	\$459,148,289	\$440,271,459	327%	96%

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	\$24,007,733	\$115,704,538	\$108,583,566	26%	94%
CRO-334E	Community Electric	\$1,119,000	\$342,215	\$1,461,215	\$1,461,215	31%	100%
TOTAL		\$92,815,805	\$24,349,948	\$117,156,763	\$110,044,781	26%	94%
Rehabilitation of the New Croton Aqueduct Construction Management Costs (2)							
TCM-CRO-334	Washington/HAKS JV	\$5,952,446	\$3,190,001	\$9,142,447	\$8,917,752	54%	98%
TOTAL		\$5,952,446	\$3,190,001	\$9,142,447	\$8,917,752	54%	98%

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
 November 25, 2014

Task	Current Forecasted Completion	Oct-14				Nov-14				Dec-14				Jan-14				Feb-15			
		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 Moshulu Site																					
Modification Work in Plant (Valve Loops, Additional PMCS Server and Work in Wet Wells)	11/21/2014																				
Refill, Re-test, Disinfect and Test Operate Plant	TBD																				
Deliver Filtered and Disinfected Water into Distribution System	TBD																				
Remaining Major Work Inside Plant	4/15/2015																				
Remaining Major Work Outside Plant	5/15/2015																				
Golf Course Clubhouse, Driving Range, Etc.	TBD																				
CRO-312OS - Off-Site Facilities at Jerome Park Reservoir and Gate House No. 1																					
North Basin Slab Repair	12/5/2014																				
3-phase Power to Gate House No. 1	3/31/2015																				
Demolition of Microstrainer Building and Restoration of Area (delays have occurred due to discovery of additional asbestos inside building)	4/15/2015																				
Demolition of Demonstration Building and Restoration of Area (start date delayed due to DOB permit issues)	4/15/2015																				
Shaft 3 Work and Restoration Work	5/15/2014																				
Complete Restoration of Shaft and Meter Chamber Area	4/15/2015																				