



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](mailto: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](mailto: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**

<b>Project Detail</b> <i>Dollars in millions</i>	<b>Committed/ Current Contract Amount</b>	<b>2015-2020 Planned</b>	<b>Projected Total Since Inception</b>
<b>Croton Filtration Plant Construction</b>	<b>\$3,094.8</b>	<b>\$86.9</b>	<b>\$3,181.7</b>
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
<b>New Croton Aqueduct Construction Costs</b>	<b>\$179.2</b>	<b>\$11.7</b>	<b>\$190.9</b>
<b>Capital Mitigation &amp; Amenity Projects</b>	<b>\$252.8</b>	<b>\$58.9</b>	<b>\$311.6</b>
<b>Expense Mitigation &amp; Amenity Projects</b>	<b>\$12.5</b>	<b>-</b>	<b>\$12.5</b>
<b>Total Croton Filtration Plant &amp; Related Projects</b>	<b>\$3,539.3</b>	<b>\$157.4</b>	<b>\$3,696.7</b>

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 plant 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
<b>Croton Filtration Plant Construction</b>	<b>\$3,014.3</b>	<b>\$3,181.7</b>	<b>\$167.4</b>	<b>5.6%</b>
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	-
<b>New Croton Aqueduct Construction Costs</b>	<b>\$181.2</b>	<b>\$190.9</b>	<b>\$9.6</b>	<b>5.3%</b>
<b>Capital Mitigation &amp; Amenity Projects</b>	<b>\$254.7</b>	<b>\$311.6</b>	<b>\$56.9</b>	<b>22.3%</b>
<b>Expense Mitigation &amp; Amenity Projects</b>	<b>\$8.2</b>	<b>\$12.5</b>	<b>\$4.4</b>	<b>53.3%</b>
<b>Total Croton Filtration Plant &amp; Related Projects</b>	<b>\$3,458.4</b>	<b>\$3,696.7</b>	<b>\$238.3</b>	<b>6.9%</b>

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.

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
	<b>Subtotal, Filtration Plant Construction Costs</b>	<b>\$2,276,938,168</b>	<b>-\$5,006,895</b>	<b>\$2,271,931,273</b>
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
	<b>Subtotal, Off-site Facility</b>	<b>\$152,917,151</b>	<b>\$9,966,676</b>	<b>\$162,883,827</b>
CRO-312FM	Original Force Main Route to the Hunts Point Plant	\$3,488,300	\$0	\$3,488,300
	<b>Subtotal Force Main</b>	<b>\$3,488,300</b>	<b>\$0</b>	<b>\$3,488,300</b>
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
	<b>Subtotal Plant Design and Construction Management</b>	<b>\$636,553,999</b>	<b>\$49,945,000</b>	<b>\$686,498,999</b>
	IFA Croton Filtration Plant	\$24,884,136	\$17,000,000	\$41,884,136
	Planned Wrap-Up Costs	\$0	\$15,000,000	\$15,000,000
	<b>Total Croton Filtration Plant Construction</b>	<b>\$3,094,781,754</b>	<b>\$86,904,781</b>	<b>\$3,181,686,535</b>

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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>				
<b>Total Croton Filtration Plant Construction</b>		<b>\$3,094,781,754</b>	<b>\$86,904,781</b>	<b>\$3,181,686,535</b>
<b>New Croton Aqueduct (NCA) Construction Costs</b>				
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
<b>Subtotal New Croton Aqueduct Construction</b>		<b>\$167,398,521</b>	<b>\$1,661,874</b>	<b>\$169,060,395</b>
IFA New Croton Aqueduct		\$11,800,000	\$10,000,000	\$21,800,000
<b>Total New Croton Aqueduct Construction</b>		<b>\$179,198,521</b>	<b>\$11,661,874</b>	<b>\$190,860,395</b>
<b>Mitigation &amp; Amenities (all lines include IFA)</b>				
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
<b>Total Capital Mitigation &amp; Amenities (incl. IFA)</b>		<b>\$252,782,868</b>	<b>\$58,862,000</b>	<b>\$311,644,868</b>
Croton Forestry Management (Expense Budget)		\$12,523,496	<i>annual transfer</i>	
<b>Total Expense Mitigation &amp; Amenities</b>		<b>\$12,523,496</b>		<b>\$12,523,496</b>
<b>TOTAL Croton Filtration Plant (incl. Construction, Mitigation &amp; Amenities, NCA, and IFA)</b>		<b>\$3,539,286,639</b>	<b>\$157,428,655</b>	<b>\$3,696,715,294</b>
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
<b>Subtotal DEP Managed Projects</b>		<b>\$20,000,000</b>	<b>\$0</b>	<b>\$20,000,000</b>

**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-1SQUARM	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



Independent Budget Office

**Croton Filtration Plant Mitigation & Amenities Projects****Projects Managed by Department of Parks and Recreation (continued)**

<b>Capital Project ID</b>	<b>Project Description</b>	<b>2000-2014 Committed</b>	<b>2015-2020 Planned</b>	<b>Total Since Inception</b>
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
<b>Subtotal MOU Projects</b>		<b>\$211,465,469</b>	<b>\$33,048,000</b>	<b>\$244,513,469</b>

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-6ETREE5	GREENSTREETS - CITYWIDE CNYG-1505M	384,320	0	384,320
P-1BTREE5	TREE PLANTING - BRONX XG-505M	616,588	0	616,588
<b>Subtotal ULURP Projects</b>		<b>\$21,317,399</b>	<b>\$428,000</b>	<b>\$21,745,399</b>
<b>Parks Department Managed Mitigation and Amenities</b>		<b>\$232,782,868</b>	<b>\$33,476,000</b>	<b>\$266,258,868</b>

<b>Total Croton Mitigation &amp; Amenities</b>	<b>\$252,782,868</b>	<b>\$33,476,000</b>	<b>\$286,258,868</b>
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	IMPROVEMENTS TO ROBERTO CLEMENTE STATE PARK (inc IFA)	\$10,000,000	\$0	\$10,000,000	\$10,000,000	\$0
GREEN-BX	GREENING THE BRONX, MITIGATION & AMENITIES, BRONX PARKS	10,000,000	0	\$10,000,000	10,000,000	0
<b>Subtotal DEP Managed Projects</b>		<b>\$20,000,000</b>	<b>\$0</b>	<b>\$20,000,000</b>	<b>\$20,000,000</b>	<b>\$0</b>

**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: AQUISITION 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**

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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**

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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 ( <i>NOT MANAGED BY PARKS DEPARTMENT</i> )	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	MULLALY PARK - NORTH SECTION ( <i>see P-1CROT67 and 68</i> )	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 ( <i>see P-1CROT64</i> )	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 ( <i>see P-1CROT69</i> )	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 ( <i>see P-1CROTOA</i> )	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)

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