



NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTEWATER TREATMENT
CSO Order on Consent
DEC Case #CO2-20000107-8; DEC Case #CO2-2007-0101-1; DEC Case #CO2-
20090318-30; DEC Case #CO2-20110512-25

Combined Sewer Overflow Order on Consent

Quarterly Progress Report – Fourth Quarter 2011



January 2012

City of New York
Department of Environmental Protection
Bureau of Engineering Design & Construction

CSO Orders on Consent

DEC Case # CO2-20000107-8

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QUARTERLY PROGRESS REPORT

FOURTH QUARTER 2011

(October 1 to December 31)

January 30, 2012

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1.0 Executive Summary

The Combined Sewer Overflow “CSO” Order on Consent, DEC Case # CO2-20070101-1 (the “Order”); was entered into by the City of New York (“City”) and the New York State Department of Environmental Conservation (“DEC”) on January 14, 2005 and modified on April 14, 2008 and on September 3, 2009. Pursuant to Section IV, Paragraph A of the Order, the City shall submit quarterly status reports to DEC (“Quarterly Reports”). The Quarterly Reports shall describe the actions that have been taken toward achieving compliance with this Order during the past three-month period. This Quarterly Report sets forth the status of and progress by the New York City Department of Environmental Protection (“DEP”) in complying with the milestones set forth in the Order during the period from **October 1, 2011 to December 31, 2011**.

Critical Events This Quarter:

The following critical events occurred this quarter:

- 1) DEP Certified the Notice to Proceed to Construction for the Tallman Island Whitestone Interceptor on December 31, 2011. A copy of the certification is provided in Appendix A.**
- 2) DEP Certified Construction Completion of the Hendrix Creek Dredging on November 18, 2011. DEC acknowledged receipt of the certification on November 21, 2011. A copy of the certification is provided in Appendix A.**
- 3) DEP Certified Initiation of Design for the 26th Ward WWTP Wet Weather Stabilization on December 30, 2011. A copy of the certification is provided in Appendix A.**
- 4) DEC accepted the Certification of Construction Completion of the Outer Harbor, Inner Harbor, and Jamaica Tributaries Regulator Improvements Automation on October 31, 2011. The certification had been submitted by DEP on December 30, 2010.**
- 5) DEC accepted the Certification of Construction Completion of the In-Line Storage on October 31, 2011. The certification had been submitted by DEP on August 20, 2010.**
- 6) DEP issued a Notice of Force Majeure related to the Bronx River Floatables Control project on October 3, 2011, citing unforeseen subsurface conditions that have impacted the installation of excavation support at Outfall HP-007 on Bronx Park Avenue. DEP is exercising best efforts to minimize delays related to the Construction Completion milestone of June 30, 2012.**
- 7) DEP submitted the revised Jamaica Bay and CSO Tributaries Waterbody/Watershed Facility Plan on October 31, 2011. DEC provided comments on the plan on November 17, 2011.**
- 8) DEP received comments on the Hutchinson River Water Quality Sampling Plan from DEC on December 20, 2011.**
- 9) DEP received comments on the Paerdegat Basin Environmental Dredging design on November 14, 2011.**
- 10) A Force Majeure incident related to the Inner Harbor – Gowanus Canal Flushing Tunnel Modernization and Pumping Station Reconstruction project occurred on December**

23, 2011. A sinkhole developed and a building partially collapsed due to the microtunneling operation required for installation of the new wastewater force main. DEP is exercising best efforts to minimize delays related to the Construction Completion milestone of September 30, 2014. A Notice of Force Majeure will be issued on January 4, 2012.

Major Actions This Quarter:

DEP continued to make progress in the planning, design and construction of its CSO facilities during this quarter, as documented in this report. As stipulated by the Order, **DEP and DEC held a Quarterly Progress Meeting on December 5, 2011 at the 26th Ward WWTP** to discuss issues related to the Order and to review milestones met during the last quarter.

Table 1 presents the milestones that occurred this quarter. For each milestone listed in Table 1 below, either met or postponed, written notification was submitted by DEP to DEC. Table 2 presents milestones from the reporting quarter that are under consideration for potential modification.

Major Actions Next Quarter:

The following major actions are expected to occur from October 2011 through December 2011:

Hold the next Quarterly Progress Meeting between DEC and DEP on **March 21st, 2012 at DEP offices in Kingston.**

Table 1 – Milestones This Quarter (October 2011 – December 2011)

LOCATION / PROJECT AREA	ITEM DESCRIPTION	MILESTONE DATE	ACTION REQUIRED	STATUS
Flushing Bay	Tallman Island Whitestone Interceptor	Dec 2011	Notice to Proceed to Construction	Certified 12/31/11

Table 2 – Milestones this Quarter to be Considered for Potential Modification

LOCATION / PROJECT AREA	ITEM DESCRIPTION	MILESTONE DATE	ACTION REQUIRED	REASON FOR MODIFICATION
There are no Milestones this quarter to be considered for potential modification				

Table 3 – Milestones Next Quarter

Table 3 has been removed pending ongoing CSO Consent Order negotiations. The modified Order was publicly noticed during the 4th Quarter 2011, but was not signed by DEC.

Table 4 – Force Majeure Notifications and Outstanding Modification Requests

LOCATION/ PROJECT AREA	ITEM DESCRIPTION	ACTION(S)	REASON FOR ACTION(S)	MILESTONE DATE	STATUS
Paerdegat Basin	Environmental Dredging	Notice of Force Majeure	Change in spatial extent of dredge	NTP Mar 19, 2013	Noticed 7/28/11; DEC responded 8/3/11
Bronx River	Floatables Control	Notice of Force Majeure	Excavation of unforseen blockage before excavation support system can be installed	Jun 30, 2012	Noticed 10/3/11
Inner Harbor	Gowanus Flushing Tunnel	Force Majeure	Partial building collapse related to microtunneling	Sep 30, 2014	Notice of Force Majeure for 12/23/11 event will be submitted 1/4/2012

2.0 Construction Contracts

The Order contains milestones and schedules governing the planning, design and construction of DEP's Citywide CSO Program. Numerous CSO related facilities will be constructed to reduce combined sewage discharges to the receiving waters surrounding the City. The table below provides a list of construction contracts, identified in Appendix A of the Order, necessary to fulfill the requirements of the Order. This table identifies, by percentage, the estimated amount of construction that has been completed.

Table 5 – Construction Contracts and their Status

WATERBODY	ITEM DESCRIPTION	NOTICE TO PROCEED	CONSTRUCTION COMPLETION	PROJECTED COMPLETION	% OF TIME ELAPSED	% OF CONSTRUCTION COMPLETED ⁽¹⁾
Alley Creek	Outfall and Sewer System Improvements	Dec 2002	Dec 2006	Completed	100%	100%
	CSO Retention Facility	Dec 2006	Dec 2009 ⁽²⁾	Completed	100%	100%
Outer Harbor	Regulator Improvements – Fixed Orifices	Feb 2006	Jul 2008	Completed	100%	100%
	Regulator Improvements – Automation	Nov 2007	Jun 2010 ⁽⁶⁾	Completed	100%	100%
	Port Richmond Throttling Facility	Jun 2006	Nov 2009 as modified	Completed	100%	100%
Inner Harbor	Regulator Improvements – Fixed Orifices	Feb 2003	Apr 2006	Completed	100%	100%
	Regulator Improvements – Automation	Nov 2007	Jun 2010 ⁽⁶⁾	Completed	100%	100%
	In-Line Storage	Aug 2007	Aug 2010	Completed	100%	100%
	Gowanus Flushing Tunnel Modernization	Feb 2010	Sep 2014	Sep 2014	42%	42%
	Gowanus Pump Station Reconstruction	Feb 2010	Sep 2014	Sep 2014	42%	42%
	Dredging of Gowanus Canal	TBD ⁽³⁾	TBD ⁽³⁾	TBD ⁽³⁾	-	-
Paerdegat Basin	Influent Channel	Feb 1999	Feb 2002	Completed	100%	100%
	Foundations and Substructures	Jun 2002	Dec 2009	Completed	100%	100% ⁽⁴⁾
	Structures and Equipment	Sep 2005	May 2011	Completed	100%	100% ⁽⁴⁾
	Dredging of Paerdegat Basin	3/19/2013	3/19/2015	3/19/2015	-	-
Flushing Bay	Reroute and Construct Effluent Channel	Jun 1995	Jun 1996	Completed	100%	100%
	Relocate Ball fields	Apr 1995	Aug 1995	Completed	100%	100%
	Storage Tank	Jul 1997	Aug 2001	Completed	100%	100%
	Mechanical Structures	Mar 2002	Sep 2009	Completed	100%	100%
	Tide Gates	Dec 2000	Apr 2002	Completed	100%	100%

WATERBODY	ITEM DESCRIPTION	NOTICE TO PROCEED	CONSTRUCTION COMPLETION	PROJECTED COMPLETION	% OF TIME ELAPSED	% OF CONSTRUCTION COMPLETED ⁽¹⁾
	Manual Sluice Gates	Feb 2004	Jun 2005	Completed	100%	100%
	Tallman Island WWTP Conveyance Improvements	Dec 2011	Jul 2015	Dec 2014	-	-
Jamaica Tributaries	Meadowmere & Warnerville DWO Abatement	Jun 2006	Jul 2009 as modified	Completed	100%	100% ⁽⁴⁾
	Expansion of Wet Weather Capacity of Jamaica WWTP	Jun 2012	Jun 2015	TBD ⁽⁵⁾	-	-
	Destratification Facility	Sep 2010	Mar 2012	Mar 2012	89%	75%
	Regulator Automation	Nov 2007	Jun 2010 ⁽⁶⁾	Completed	100%	100%
Coney Island Creek	Avenue V Pumping Station Upgrade	Nov 2005	Apr 2011	Apr 2012	100%	80%
	Avenue V Force Main	Jul 2007	Jun 2012	Aug 2011	92%	100%
Newtown Creek	Aeration Zone I	Dec 2005	Dec 2008	Completed	100%	100%
	Aeration Zone II	Jun 2011	Jun 2014	TBD ⁽⁵⁾	-	-
	Relief Sewer / Regulator Modification	Jun 2010	Jun 2014	TBD ⁽⁵⁾	-	-
	Throttling Facility	Jun 2009	Dec 2012	Dec 2012	74%	90%
	CSO Storage Facility	Dec 2015	Dec 2022	TBD ⁽⁵⁾	-	-
Westchester Creek	Phase I (Influent Sewers)	Jun 2011	Jun 2015	TBD ⁽⁵⁾	-	-
	CSO Storage Facility	Dec 2015	Dec 2022	TBD ⁽⁵⁾	-	-
Bronx River	Floatables Control	Jun 2009	Jun 2012	Jun 2012	86%	85%
Hutchinson River	Phase I of the Storage Facility	Jun 2011	Jun 2015	TBD ⁽⁵⁾	-	-
	Future Phases	Dec 2016	Dec 2023	TBD ⁽⁵⁾	-	-
Jamaica Bay	Spring Creek AWPCP Upgrade	Mar 2003	Apr 2007	Completed	100%	100%
	26th Ward Drainage Area Sewer Cleaning and Evaluation	Jun 2008	Jun 2010	Completed	100%	100%
	Hendrix Creek Dredging	Feb 2010	Feb 2012	Oct 2011	96%	100%
	26th Ward Wet Weather Expansion	Jun 2011	Dec 2015	TBD ⁽⁵⁾	-	-
	Rockaway WWTP Conveyance Improvements		Dec 2017	Dec 2017	-	-

Notes:

- (1) Percentage Construction Completion is tracked based on cost incurred.
- (2) A modification to the completion date from 12/31/2009 to 11/30/2010 was submitted to DEC on 10/30/2009.
- (3) Dredging NTP 3 years from effective date of permit; completion within 5 years of EDP.
- (4) CSO Consent Order elements completed and a Certification of Construction Completion has been submitted.
- (5) Item to be replaced or enhanced through Modification Request Process.
- (6) A request for modification to the completion date from 06/30/2010 to 12/31/2010 was submitted to DEC on 04/30/2010.

3.0 Detailed Description of Work Performed

3.1. Alley Creek CSO

The Alley Creek CSO Facilities Planning area consists of the drainage area of CSO Outfall TI-008, which discharges into Alley Creek at a location just south of Northern Boulevard on the west bank of Alley Creek. Little Neck Bay and Alley Creek receive discharges from 31 stormwater outfalls, as well as CSO Outfall TI-008; however, discharges from CSO Outfall TI-008 were determined to be the primary cause of water quality degradation within Alley Creek. CSO Outfall TI-008 serves a drainage area of approximately 1,975 acres within the Tallman Island Wastewater Treatment Plant (WWTP) service area in the Borough of Queens. The Alley Creek Drainage Area Improvements/CSO Abatement Facilities Project, which has been designated as Phase I of the comprehensive Alley Creek CSO Abatement Facilities Plan, is being constructed in two stages:

1. Alley Creek Drainage Area Improvements (Phase I, Stage 1, Contract ER-AC1) and,
2. Alley Creek CSO Abatement Facilities (Phase I, Stage 2, Contract ER-AC2)

This section reports on the progress of Phase I, Stages 1 and 2 of the Alley Creek CSO Abatement Facilities Plan.

Phase I, Stage 1 (Contract ER-AC1) includes the construction of additional water mains, stormwater sewers and combined sewers, a double-barrel outfall sewer, an outfall structure, and a 5 million gallon CSO storage facility to substantially reduce street flooding and sewer surcharging; and to abate CSO discharges into Alley Creek within the CSO Outfall TI-008 drainage area.

Phase I, Stage 2 (Contract ER-AC2) includes activation of the 5 MG CSO storage facility, upgrading the Old Douglaston Pumping Station to enhance the station's reliability to pump the captured combined sewage to the interceptor system for conveyance to the Tallman Island WWTP for treatment, rehabilitation of the CSO Outfall TI-008 structure, and restoration of a 1.51-acre area surrounding CSO Outfall TI-008 to include restoration/creation of wetlands and replacement of invasive vegetation with indigenous plantings as mitigation for the area disturbed as a result of rehabilitation of the outfall structure.

Work Performed During This Quarter

Construction

- Alley Creek CSO Abatement Facilities – Phase I, Stage 2, Contract ER-AC2
 - DEP Certified Construction Completion of the Alley Creek CSO Facility on June 27, 2011. The facility was certified as being operational as of March 11, 2011.

Missed/Modified Milestones

- ◆ The DEP submitted a request to the DEC on October 30, 2009 for a modification to the existing Milestone Date of December 31, 2009 to a new proposed Milestone Date of

November 30, 2010. The basis of this request, the unexpectedly deteriorated condition of the influent sewer to the Old Douglaston Pumping Station, was reported to DEC in a Force Majeure letter dated November 20, 2007 and updated on August 20, 2008, February 3, 2009, and July 1, 2010.

- ◆ DEP submitted a Notice of Force Majeure for the Alley Creek CSO Retention Facility on February 8, 2010 related to a job action by Electrical Union Local 3 from January 20 through 22, 2010. DEC responded to DEP's Force Majeure Notice on April 9, 2010, requesting additional information. DEP provided supplemental information as requested on April 30, 2010. DEP issued a letter to DEC defining items required for certification of Construction Completion along with a CPM schedule on July 1, 2010.
- ◆ Due to the flooding condition, DEP issued a letter to the DEC dated September 30, 2010 requesting that the Consent Order milestone date be extended to February 28, 2011. On October 18, 2010, DEC requested additional technical information on the September 30, 2010 modification request. DEP responded to the DEC request on November 22, 2010.
- ◆ DEC requested additional information related to the Alley Creek CSO Retention Facility Request for Modification of Milestone Date on March 1, 2011. A response was sent on March 15, 2011.

Anticipated Activities for Next Quarter

Construction

- Alley Creek CSO Abatement Facilities – Phase I, Stage 2, Contract ER-AC2
 - None. The facility was certified as being operational as of March 11, 2011.

Table 6 – Alley Creek CSO Projects

	<i>Phase I, Stage 1</i>	<i>Phase I, Stage 2</i>
Plan Elements:	Alley Creek Drainage Area Improvements	Alley Creek CSO Abatement Facilities
Location:	46th Avenue, 53rd Avenue, 56th Avenue, Bell Boulevard, Luke Place, 214th Street, 215th Street, 216th Street, 217th Street, Springfield Boulevard, Cloverdale Boulevard, Cross Island Parkway, Northern Boulevard and Alley Park in Bayside, Queens	Northern Boulevard and Alley Park in Bayside, Queens
Actions:	Construction of additional water mains, stormwater and combined sewers, catch basins, outfall sewer and outfall structure to effect improved drainage in areas upstream of CSO Outfall TI-008 in Bayside, Queens; construction of 5 MG CSO storage facility for CSO abatement within Alley Creek	Design and construction of modifications to the Old Douglaston Pumping Station including air treatment facilities to treat air exhausted from the CSO storage facility and the pumping station; design and construction of hydraulic control structures and facilities to activate the 5 MG CSO storage facility constructed under Phase I, Stage 1; rehabilitation of the CSO Outfall TI-008 structure; restoration of a 2.5-acres of wetland/upland area surrounding CSO Outfall TI-008. The wetland/upland restoration work has been transferred to Contract ER-AC3
Cost:	\$98,850,488	\$35,629,594
Status:	Construction Completed	Construction Completed

3.2. Outer Harbor CSO

The Outer Harbor CSO Facility Planning area consists of the drainage areas of the Port Richmond, Oakwood Beach, Owls Head and Coney Island (separately sewered area) Wastewater Treatment Plants (WWTPs) and their associated sewers and pumping stations. The receiving waters of the study area include the New York limits of the Raritan Bay, Arthur Kill and Kill Van Kull, Upper New York Bay waters to the boundary of the Inner Harbor CSO Project, the Narrows, Gravesend Bay, Lower New York Bay, Richmond Creek and Lemon Creek. This section reports on the progress for Phase I – Regulator Improvements (Fixed Orifices) and Phase II – Throttling Facility. In addition, the automation of key regulators will be accomplished under the Citywide SCADA Project (Contract REG-026) that addresses the milestones for regulator automation under Outer Harbor, Inner Harbor, and Jamaica Tributaries.

Phase I will provide improvements to 32 regulators in the Outer Harbor study area. Phase II entails the construction of a throttling facility in the Port Richmond east interceptor, which will provide the ability to store up to 5 MG upstream of the Port Richmond WWTP. The Citywide SCADA Project will automate regulators in Outer Harbor.

Work Performed During This Quarter

Construction

- Regulator Automation
 - ◆ Construction complete. The Certification of Construction Completion was submitted to DEC on December 30, 2010, and a final inspection was completed. **DEC accepted the Certification of Construction Completion of the Outer Harbor, Inner Harbor, and Jamaica Tributaries Regulator Improvements Automation on October 31, 2011.**
- Phase I Regulator Improvements
 - ◆ Construction complete. The Certification of Construction Completion was submitted to DEC and a final inspection was completed by DEC. In a letter dated June 30, 2008, DEC certified compliance with the construction completion milestone.
- Phase II Throttling Facility
 - ◆ DEP certified Construction Completion of the Port Richmond throttling facility on November 20, 2009 in compliance with the modified milestone.

Missed/Modified Milestones

- ◆ DEP submitted a Request for Modification and Notice of Force Majeure for the Construction Completion Milestones associated with the Regulator Improvements – Automation to DEC on April 30, 2010. The basis for this request was due to a number of factors, including delays in scheduling work by the telephone company after extreme weather, unanticipated field conditions encountered by the contractor, limited site access to perform work, change in equipment to meet classified conditions, and the change order

registration. The new date requested for the Construction Completion milestone was December 31, 2010. DEC acknowledged receipt of the Force Majeure Notice on June 21, 2010 and directed DEP to provide more information. DEP provided additional information on July 12, 2010.

Anticipated Activities for Next Quarter

Construction

- Regulator Automation
 - ◆ **Project close-out.**
- Phase II Throttling Facility
 - ◆ None

Table 7 – Outer Harbor CSO Projects

	<i>Phase I</i>	<i>Phase II</i>	<i>Citywide SCADA</i>
Plan Elements:	Regulator Improvements – Fixed Orifices	Throttling Facility	Regulator Improvements – Automation
Location:	32 regulator sites throughout Brooklyn and Staten Island	Port Richmond WWTP	Regulator sites throughout Brooklyn and Staten Island
Actions:	Conversion to manually operated sluice gates, replacement of stop plank guides, manhole steps, standardization of manhole cover sizes	Installation of throttling facility and sluice gate in Port Richmond east interceptor sewer	Conversion to automated regulators
Construction Cost:	\$4,390,100	\$ 5,704,481.02	\$15,721,000*
Status:	Construction Complete	Construction Complete	Construction Complete
Other Issues:	-	-	-

*Construction cost represents original contract amount for REG-026

3.3. Inner Harbor CSO

The Inner Harbor CSO Facility Planning area consists of the drainage areas of the North River, Newtown Creek, and Red Hook Wastewater Treatment Plants (WWTPs) and their associated sewers and pumping stations. The receiving waters of the study area include the Lower East River, Hudson River, Upper New York Bay, and Gowanus Canal and Bay. This section reports on the progress of Phase I (Regulator Improvements), Phase II (In-Line Storage), and the automation of key regulators to be accomplished under the Citywide SCADA Project. In addition, the proposed elements of the August 2008 Gowanus Canal Waterbody / Watershed Facility Plan (as amended April 2009) became enforceable under the CSO Consent Order by reference upon approval by DEC, which was granted on July 14, 2009.

Phase I provides improvements to 72 regulators in the Inner Harbor study area. Phase II provides for in-line storage at two inflatable dam locations in the study area. The Citywide SCADA Project will automate regulators in Inner Harbor.

The key components include the rehabilitation of the Gowanus Canal Flushing Tunnel, reconstruction of the Gowanus Pumping Station, floatables controls at major CSOs, and environmental dredging at the head end of Gowanus Canal. Rehabilitating the Flushing Tunnel will eliminate shutdowns during low tide and many maintenance operations with the installation of a new pumping system with redundant, interchangeable pumps. The Gowanus Pumping Station reconstruction includes major improvements to operational reliability and the replacement of the force main to convey pumped flow directly to the Columbia Street Interceptor via a new force main to be constructed within the Flushing Tunnel. CSO screens will be retrofitted to RH-034 at the upstream side of the Gowanus Pumping Station. Environmental dredging in the upper 750 feet of the Gowanus Canal to a final water depth of 3.0 feet below mean lower low water will reduce exposure of CSO sediment mounds, thereby improving aesthetic conditions.

Gowanus Canal was added to the US EPA Superfund National Priorities List (NPL) on March 2, 2010. According to EPA, placing the Gowanus Canal on the list allows the Agency to further investigate contamination at the site and develop an approach to address the contamination.

Work Performed During This Quarter

Design

- In-line Storage
 - ◆ **Supervised installation and testing of uninterrupted power supply (UPS) device for the B-6 site to replace failed equipment.**
 - ◆ **Reviewed and submitted Fixed Asset Survey report.**
- Gowanus Canal
 - ◆ The Gowanus Canal Waterbody / Watershed Facility Plan and the Gowanus Canal Facilities Upgrade Plans and Specifications were submitted to DEC in August 2008 and approved on July 14, 2009 as amended.

- ◆ Gowanus Canal Dredging
 - ◆ **Continued work on the Permit for the Gowanus CSO Dredging Permit.**
 - ◆ **Continued work on BODR and Concept design for Gowanus Dredging.**

Construction

- Regulator Automation
 - ◆ Certification of Construction Completion for the Outer Harbor, Inner Harbor, and Jamaica Tributaries milestones for Regulator Improvements – Automation was submitted. Refer to section 3.2 for details.
- Regulator Improvements
 - ◆ Work is complete on the construction of Phase I, which was broken up into two contracts: Brooklyn Regulator Improvements (32 regulators) and Manhattan Regulator Improvements (40 regulators). The certification of construction completion was submitted to DEC on January 24, 2006 and the final inspection was completed by DEC. In a letter dated March 20, 2006, DEC certified compliance with the construction completion milestone.
- In-line Storage (ILS)
 - ◆ DEP certified construction completion of ILS in August 2010. **DEC accepted the Certification of Construction Completion of the In-Line Storage on October 31, 2011.**
- Gowanus Canal – Rehabilitation of Flushing Tunnel and Reconstruction of Gowanus Pump Station
 - ◆ **Construction continued during this quarter. The interim oxygen transfer system remained in operation.**
 - ◆ **The G contractor continued with the work in the flushing tunnel. The concrete cradle demolition is complete up to station 38+00 and the power washing of the walls is complete to this point.**
 - ◆ **On December 23, the micro tunneling operation required for installation of the new wastewater force main created a sink hole at the exit chamber and there was a partial collapse of the adjacent building. DEP is exercising best efforts to minimize delays related to the Construction Completion milestone of September 30, 2014, but tunnel work is temporarily on hold. A Notice of Force Majeure will be issued on January 4, 2012.**
 - ◆ **A remediation design for the Flushing Tunnel Building jet grout plug has been agreed to; the G contractor will prepare a proposal for this work.**
 - ◆ **Service Building reinforcing steel and concrete continues to be installed. The E contractor installed wall sleeves for conduits; the P contractor installed piping for the floor slabs.**

Missed/Modified Milestones

- ◆ Outer Harbor, Inner Harbor, and Jamaica Tributaries milestones for Regulator Improvements – Automation are being satisfied under a single construction contract (REG-026). Refer to Section 3.2 for missed or modified milestones related to this project.
- ◆ DEP submitted a Notice of Force Majeure in December 2007 to DEC due to unanticipated subsurface conditions and discontinuation of equipment by the specified dam manufacturer. DEP has not yet determined the impact of these events on compliance with the construction completion milestone date. An update on this Force Majeure event was submitted in a letter dated August 29, 2008.

Anticipated Activities for Next Quarter

Design

- In-Line Storage
 - ◆ **None. Project ended December 31, 2011.**

Construction

- Regulator Automation
 - ◆ Project Close-out
- In-line Storage
 - ◆ **None.**
- Gowanus Canal – Rehabilitation of Flushing Tunnel and Reconstruction of Gowanus Pump Station
 - ◆ **Continue with the operation of the Oxygen Transfer System and the Interim Wastewater Pump System.**
 - ◆ **Continue work on the clean out chamber and complete the micro tunneling work between the clean out and exit chambers.**
 - ◆ **Continue with the Service Building reinforcing steel, concrete and structural steel installation.**
 - ◆ **Continue with the demolition of the existing force main piping in the flushing tunnel and start the force main installation.**
 - ◆ **Continue construction of the Wastewater Pump Station.**
 - ◆ **The E contactor will install conduit.**

Table 8 – Inner Harbor CSO Projects

	<i>Phase I</i>	<i>Phase II</i>	<i>Citywide SCADA</i>	<i>Gowanus Canal Pumping Station and Flushing Tunnel</i>	<i>Dredging</i>
Plan Elements:	Regulator Improvements – Fixed Orifices	In-Line Storage	Regulator Improvements – Automation	Rehabilitation of Pumping Station and Flushing Tunnel	Dredging Gowanus Canal Head End
Location:	72 regulator sites in Manhattan and Brooklyn	Upstream of regulators B-6 and R-20 in Brooklyn	Regulator sites in Manhattan and Brooklyn	Gowanus Pumping Station Property, Brooklyn	Gowanus Canal
Actions:	Conversion to fixed orifices	Installation of two inflatable dams in the combined sewer systems	Conversion to automated regulators	NTP Issued	Prepare and Submit Dredging Permit Application
Construction Cost:	\$9,500,000	\$15,836,084	Note 1	\$136,437,568	TBD
Status:	Construction Complete	Construction Complete	Note 1	Under construction. 42% complete	Design Contract procurement in progress initiated 9/20/2010
Other Issues:			Note 1	Force Majeure (subsurface conditions) 12/23/2011 related to microtunneling	Modification Request submitted 12/15/2010 due to Superfund listing

Note 1: Outer Harbor, Inner Harbor, and Jamaica Tributaries milestones for Regulator Improvements – Automation are being satisfied under a single construction contract (REG-026). Refer to Section 3.2 for an update on the status of this project.

3.4. Paerdegat Basin CSO

The Paerdegat Basin CSO Retention Facility is located in southeastern Brooklyn, at the intersection of Flatlands and Ralph Avenues. The facility will receive combined sewer overflows from outfalls CI-004, CI-005, and CI-006, a drainage area of approximately 6,000 acres in the Coney Island WWTP service area. Once constructed, the facility will consist of a four (4) bay underground storage tank and operations buildings. The stored CSO will be pumped back to the Coney Island WWTP for treatment after each rain event. This section reports on the progress of Phase IA – Influent Channels, Phase II – Foundations and Substructures, and Phase III – Structures and Equipment.

Phase IA includes construction of a major portion of the influent channels and the relief weir. Phase II includes construction of the CSO tank and building foundations and dredging of the basin. Phase III entails construction of the aboveground structures including Pump Back Building, Odor Control Building, Screening Building and Collection Facilities Building; also completion of the influent channels and reconstruction of the outfalls, installation of all mechanical equipment and start-up of the CSO facility.

Work Performed During This Quarter

Planning

- ◆ Paerdegat Basin LTCP report was submitted November 2005, and was approved by DEC in February 2007 as amended June 2006.
- ◆ The USACE permit was issued May 10, 2011. The final design initiation milestone was certified complete September 20, 2010.
- ◆ The updated Form 2A SPDES Application and Wet Weather Operating Plan (WWOP) were submitted to DEC on May 21, 2010. DEC provided comments on the NY-2A and WWOP on August 13, 2010, and the WWOP and NY-2A were resubmitted to DEC October 22, 2010.

Design

- ◆ **Continued evaluation of new data to incorporate results of sediment chemistry and geotechnical analysis (planned) in the newly defined dredge area into the design documents, as necessary.**
- ◆ **Submitted Paerdegat Basin Final Design Package for legal review, including PSR forms and updates to the design documents based on the USACE permit modification (December 9, 2011).**

Construction

- Phase I A – Influent Channels
 - ◆ Construction completed in 2002.
- Phase II – Foundations and Substructures

- ◆ Construction completed in January 2010. DEC performed the post-construction inspection on March 23, 2010.
- Phase III - Structures and Equipment
 - **Construction work continued and remains 100 percent complete on all consent order related items and is approximately 97 percent complete on various other contract items. All contract work was found to be substantially completed on August 5, 2011 with only change order work, minor punch list and warranty repairs remaining.**
 - **The 5G contractor was involved in a structural inspection of the outfall that identified certain critical repairs. A change order to correct these items has been initiated and is being processed. Contractor completed installation of storm water piping and associated manholes on Avenue K; completed placing asphalt at the Five Barrel and completed placement of equipment signs and tags throughout the Process Building.**
 - **The 5E Contractor performed troubleshooting of various pieces of equipment during the initial operational period. The contractor also began banding, labeling and tagging. The 5H contractor performed troubleshooting of various pieces of equipment during the initial operational period. The contractor also began commissioning of the Master Boiler Control Panel and completed installation of piping supports for the hot water circulation piping.**
 - **The 5P contractor performed no physical work during this period.**

Missed/Modified Milestones

- ◆ DEP issued a Notice of Force Majeure on February 12, 2010 related to the January 25, 2010 Notice of Claim and Appeal issued by the 4B contract surety and the potential impact of associated delays on the Structures and Equipment contract. DEC responded to DEP's Notice on April 9, 2010 requesting additional information, which DEP provided on April 30, 2010.

Anticipated Activities for Next Quarter

Construction

- Phase II - Foundations and Substructures
 - ◆ None. Construction is complete
- Phase III - Superstructures and Equipment
 - Work will continue on items not required under the CSO Order.
 - **The 5G contractor will continue punch list work and warranty work in the Process Buildings.**
 - **The 5E contractor will continue punch list work and warranty work in the Process Buildings. Additionally, the 5E contractor will install the Power Monitoring System**

in the Pump Back Building and begin submission of as-built drawings and documents.

- **The 5H contractor will continue punch list work and warranty work in the Process Buildings. The contractor will also complete installation of the Existing Pump Station ductwork and complete removal of debris found in the Existing Pump Station. Additionally the 5H contractor will continue submission of as-built drawings and documents.**
- **The 5P contractor will begin punch list activities begin closeout documentation as available.**
- Environmental Dredging
 - **Continue procurement process for environmental dredging.**

Table 9 – Paerdegat Basin CSO Projects

	<i>Phase IA</i>	<i>Phase II</i>	<i>Phase III</i>	<i>Dredging</i>
Construction Phase	Influent Channels	Foundations and Substructures	Structures and Equipment	Environmental Dredging
Location:	Flatlands and Ralph Avenues, Brooklyn, NY	West Shore of Paerdegat Basin	West Shore of Paerdegat Basin	Head end of Paerdegat Basin
Actions:	Construction of the influent channels to the CSO facility	Underground structural elements	Aboveground buildings and equipment	Dredge bottom sediments to finish depth of 3 ft below MLLW
Cost:	\$9,000,000	\$118,142,107	\$ 207,519,213	TBD
Status:	Construction completed.	Construction 100% complete.*	Construction 100% complete.*	DEC Permit issued 3/19/10; USACE issued 5/10/11
Other Issues:	-	-	Five Barrel Outfall repair of structural deficiencies has been initiated,	DEC established milestone dates based on issuance of DEC permit on 3/19/2010.

*CSO Consent Order elements completed and a Certification of Construction Completion has been submitted

3.5. Flushing Bay CSO

Flushing Bay CSO Retention Facility

The Flushing Bay CSO Retention Facility is an underground storage tank, which has a storage capacity of 43 million gallons, 28 MG in the tank and 15 MG in the upstream sewers. The project was constructed in phases to provide abatement in the Tallman Island WWTP drainage area at CSO Outfall TI-010 which discharges to the head of Flushing Creek. The elements of the facility include:

- ◆ Relocation of ball fields in Kissena Corridor
- ◆ Rerouting of Park Drive East CSO line inside the construction site and construction of the effluent channel
- ◆ Phase 1 construction of the underground structural elements of the tank
- ◆ Phase 2 construction of the mechanical and above-ground portion of the facility
- ◆ Construction of tide gates on the tank outfall sewer and construction of two (2) soccer fields

A written Notice of a Force Majeure Event was submitted to DEC on September 24, 2004. This event affected compliance with the Construction Completion milestone date of December 2004 for the Flushing Bay CS4-4 (Mechanical Structures) in the Order.

On September 8, 2004, rainfall at LaGuardia Airport was recorded by the National Weather Service at three inches in a three hour time period. This torrential rain event caused flooding in the basement of the Flushing Bay facility due to a breach in a temporary construction bulkhead in the influent sewer line to the facility. Water levels reached seven to eight feet above the basement floor at the CSO facility which caused damage to various mechanical, HVAC and electrical equipment.

DEC requested that DEP provide additional information in a formal report concerning the force majeure event and resultant impact upon the facility and construction status. DEP submitted such report on April 1, 2005.

DEP submitted a Construction Completion certification letter to DEC on May 31, 2007 for the CSO Retention Facility. The DEC issued a Notice of Violation (NOV) on July 15, 2008 for failure to meet the conditions of the Construction Completion Milestone for CS4-4 (V.F.4 of the CSO Consent Order). This NOV was resolved through the 2009 Modification to Order on Consent (DEC Case # CO2-20090318030).

The revised Flushing Bay Waterbody/Watershed Facility Plan Report was submitted to DEC on December 30, 2010.

Tallman Island Wet Weather Maximization

The 2008 Modification to Order on Consent included a date modification for the Flushing Bay CS4-4 milestone, as well as the addition of item V.J. "Tallman Island WWTP and associated sewer system are capable of delivering, accepting and treating influent at or above twice the plant's design flow during any storm event." The project was transferred from the 1999

Omnibus IV Consent Order to the CSO Consent Order and includes a new interceptor to parallel the Main Interceptor; and modifications at Regulators 10, 10A, and 13.

Work Performed During This Quarter

Design

- Flushing Bay CSO Retention Facility
 - ◆ No activities this reporting period.
- Tallman Island Wet Weather Maximization
 - ◆ **Registered Contract and issued Construction Notice to Proceed on December 22, 2011. DEP Certified the Notice to Proceed to Construction for the Tallman Island Whitestone Interceptor on December 31, 2011. A copy of the certification is provided in Appendix A.**
 - ◆ **Continued preparation of drainage calculations and revisions to the NYC Drainage Map.**
 - ◆ **Completed Design Modification No. 1.**
 - ◆ **Continued the development of a Memorandum of Understanding (MOU) between DEP and DPR.**
 - ◆ **Work on the following permits was performed:**
 - **Coordinated with USACE and NYSDEC during review of the Joint Permit Application (JPA).**
 - **Received General Concurrence from DOS.**
 - **Received approval from USACE on December 13th, 2011.**
 - **Received Notice of Complete Application from NYSDEC and advertised public notice on December 9th, 2011 in the NY Daily News. NYSDEC requested a 21 day public comment period.**
 - **Coordinate with Department of Buildings Small Business Services for construction phase permits. Received Work Notice Permit on November 3rd, 2011.**
 - **Continued coordination with BWSO for Sewer Connection Permit Applications for discharge of dewatered groundwater into the storm sewer system and the sanitary sewer and interceptor system.**
 - **Submitted NYCDEP Wastewater Quality Control Application for discharge of groundwater dewatering to the interceptor sewer, sanitary sewer and head of the Tallman Island WWTP on October 27th, 2011.**
- Flushing Bay Environmental Dredging
 - ◆ **Continued field work (topographic survey, wetland delineation) for Flushing Bay Environmental Dredging**

◆ **Initiated planning for conceptual design and BODR.**

Construction

- Flushing Bay CSO Retention Facility
 - ◆ Construction is complete.
- Tallman Island Wet Weather Maximization
 - ◆ **Construction Notice to Proceed was issued on December 22nd, 2011.**

Anticipated Activities for Next Quarter

Design

- ◆ **Continue work on project permitting as required, most notably:**
 - The applicable NYCDPR permits;
 - The JPA package for construction
 - **The JD request related to discharging dewatered groundwater from the proposed excavation;**
 - **The MOU between DEP and NYCDPR.**
 - **NYCDEP Wastewater Quality Control Permit.**
 - **NYCDEP Sewer Connections Permit**
- ◆ **Flushing Bay environmental dredging**
 - **Continue work on permitting.**
 - **Complete work on concept design and BODR.**

Table 10 – Flushing Bay CSO Projects

Flushing Bay CSO Tank		TI Wet Weather Maximization
Plan Elements:	Flushing Bay CSO Retention Facility	Tallman Island WWTP and associated sewer system are capable of delivering, accepting and treating influent at or above twice the plant's design flow during any storm event
Location:	Intersection of College Point Boulevard and Avery Avenue, Queens	New section of the Whitestone Interceptor from the existing Junction Chamber at the intersection of 11 th Avenue and 130 th Street to the WWTP, College Point, Queens Regulators 10, 10A and 13
Actions:	Design and construction of a 43 MG storage facility, which includes a 28 MG, underground storage tank and 15 MG in-line storage in upstream sewers. The facility collects flow from the system tributary to the TI-010 outfall.	New section of the Whitestone Interceptor from the existing Junction Chamber at the intersection of 11 th Avenue and 130 th Street to the WWTP, College Point, Queens Regulators 10, 10A and 13
Cost:	\$291,000,000	\$22,821,513
Status:	Construction Complete	Construction Notice to Proceed Issued – December 22, 2011
Other Issues:	-	100% design complete

3.6. Jamaica Tributaries CSO

The Jamaica Tributaries project area includes the Jamaica WWTP sewer shed area and the tributaries, which receive the wet weather discharges from the drainage area. These tributaries include Bergen, Thurston, Shellbank, and Hawtree Basins, which are located in the northeast portion of Jamaica Bay. There are several recommendations that are being advanced in this facility plan which include:

Meadowmere & Warnerville DWO Abatement – Construction of a new pumping station, force main, and sanitary sewer collection system in southeast Queens, NY, to convey flows from the communities of Meadowmere and Warnerville into the Jamaica drainage area collection system, for treatment at the Jamaica WWTP. This project will eliminate the dry weather discharge that is currently occurring in these two communities, which are not connected to NYC's collection system.

Expansion of Wet Weather Capacity of Jamaica WWTP – An additional 50 MGD of wet weather flow will be treated at the Jamaica WWTP to reduce the CSO discharges to Bergen Basin. Recent analyses indicate that this element has limited water quality benefits. Alternative actions have been analyzed and included in the Waterbody/ Watershed plan that was submitted to DEC in June 2007. The alternate actions are collection system upgrades designed to increase total CSO volume treated without expanding capacity. The upgrades include the installation of bending weirs at three regulators: J3 and J14 in the West Interceptor, and J6 in the East Interceptor, and a new 48-inch parallel sewer to complement the existing double barrel 36-inch Belt Parkway crossing in the West Interceptor.

Destratification Facility – Installation of a permanent diffused-air bubble mixing system at Shellbank Basin. The system is designed to eliminate temperature stratification during the summer season, which leads to poor water quality conditions in the basin, odors and marine life kills. This element currently has an operating pilot facility, which has produced positive water and air quality results for the past 11 summer seasons.

Laurelton and Springfield Blvd. Drainage Plan – A drainage plan for 7,000 acres in southeast Queens is being developed to address flooding and to construct high-level storm sewers in a 1,450 acre CSO drainage area tributary to Thurston Basin. The drainage plan identifies the necessary capital sewer projects to alleviate flooding and convert the aforementioned CSO area to a high-level storm sewer system.

Regulator Automation – Automation of key regulators was recommended in response to the 1988 State Pollution Discharge Elimination System (SPDES) permit requirements that called for telemetry in the regulators to detect dry weather overflows. It was recommended at those regulators contributing the largest flows to the treatment plants, specifically Regulators 2, 3, and 14 in the Jamaica WWTP drainage area. The Citywide Collection Facilities Supervisory Control and Data Acquisition (SCADA) System Project will automate key regulators in the City by installing electro-hydraulic actuators capable of controlling flows to the sewer interceptor.

Work Performed During This Quarter

Design

- Expansion of Wet Weather Capacity of the Jamaica WWTP
 - ◆ DEC conditionally approved a Modification Request from DEP on June 28, 2010 that would replace all milestones related to the wet weather expansion with new milestones related to a parallel sewer and bending weirs.

Construction

- Meadowmere/Warnerville
 - ◆ No work during this quarter. Construction is substantially complete.
- Destratification Facility
 - ◆ **Construction I&T meetings were held on 10/12, 11/9 and 12/21. Coordination meetings were held on 11/21 and 12/2.**
 - ◆ **1910 EH&S inspection was held on 12/15.**
 - ◆ The G and E contractors continued to submit vendor approvals, shop drawings and RFIs.
 - ◆ **The G contractor completed the following work during this reporting period: installation of the ISBU units; installation of walls, floor and ceiling; completion of paver installation; installation of mechanical equipment; installation of air and water piping.**
 - ◆ **The E contractor installed the electrical service.**
- Regulator Automation
 - ◆ Certification of Construction Completion for the Outer Harbor, Inner Harbor, and Jamaica Tributaries milestones for Regulator Improvements – Automation was submitted. Refer to section 3.2 for details.

Missed/Modified Milestones

- ◆ On June 28, 2010, DEC acknowledged that certain proposed sewer system modifications in the Jamaica WWTP service area are technically acceptable alternatives that can be adopted in lieu of the 50 MGD wet weather expansion of the Jamaica WWTP. DEP submitted a revised Request for Modification of project and milestones associated with the expansion of the wet weather capacity of the Jamaica WWTP to DEC on November 14, 2008. The basis of the original Request for Modification was the identification of an alternative approach that is expected to result in a greater degree of CSO reduction. The June 2007 Jamaica Bay and CSO Tributaries WWFP proposed replacing the expansion with more cost-effective sewer modifications projected to achieve greater CSO capture. Numerous meetings between DEP and DEC technical staff occurred, during which schedule, additional alternatives, and field measurements were discussed. A final proposed modification was included in the May 5, 2010 “Omni letter” submitted by DEP that included a specific modification request for the June 30, 2010 milestone for submittal of the form 2A SPDES Application and a request to replace the remaining milestones

related to the wet weather expansion with new milestones related to a parallel sewer and bending weirs. DEC conditionally approved this request June 28, 2010.

- ◆ On February 28, 2011, DEP provided clarification to the Jamaica Wet Weather Expansion Modification Request submitted under the May 5, 2010 “Omni” letter. A bending weir will be retrofit to regulator J6 but not J7 as noted in certain parts of the submittal.

Anticipated Activities for Next Quarter

Design

- No anticipated activities for next quarter.

Construction

- Meadowmere/Warnerville
 - ◆ Contract closeout.
- Destratification Facility
 - ◆ **Continue construction activities, including ongoing shop drawing and RFI submissions.**
 - ◆ **Startup, testing, and training for operating the facility.**
 - ◆ **Certify Construction Completion in March 2012.**
- Regulator Automation
 - ◆ Project Close-out

Table 11 – Jamaica Tributaries CSO Projects

Plan Elements:	Meadowmere & Warnerville DWO Abatement	Expansion of Wet Weather Capacity of Jamaica WWTP	Destratification	Laurelton and Springfield Blvd. Drainage Plan	Regulator Automation
Location:	Meadowmere and Warnerville – Queens, New York	Bergen Basin	Shellbank Basin	Jamaica WWTP Drainage Area	Regulators 2,3 and 14
Actions:	Construction of a Pumping Station, Sewer Collection System, and Dual Force Main	Provide an additional 50 MGD of wet weather capacity at the Jamaica WWTP.	Conduct Demonstration Construct Permanent Facility	Develop drainage plan for storm sewer build out	Provide automated regulators
Construction Cost:	\$37,637,569	\$120 million	\$2,621,918	To be determined	Note 1
Status:	Construction 100% complete. Construction Completion Milestone met.	Project to be replaced with a parallel sewer and bending weirs, pending August 2010 Consent Order negotiations per DEC 6/28/2010 correspondence	Construction is underway.	Drainage planning complete.	Note 1

Note 1: Outer Harbor, Inner Harbor, and Jamaica Tributaries milestones for Regulator Improvements – Automation are being satisfied under a single construction contract (REG-026). Refer to Section 3.2 for an update on the status of this project.

3.7. Coney Island Creek CSO

The recommended plan for the Coney Island Creek CSO Facility Planning Project is to increase the wet weather pumping capacity of the Avenue V Pumping Station. The Avenue V Pumping Station tributary area encompasses 2,900 acres, of which 2,056 acres are separately sewered and 844 acres have combined sewers. The Avenue V Pumping Station capacity will be increased to capture 85 percent, by volume, of the current CSO discharge from outfall OH-021 to Coney Island Creek. The capacity of the pumping station will be increased from approximately 30 MGD to 80 MGD in two construction contracts, a pumping station upgrade phase and a force main construction phase.

Work Performed during This Quarter

Design

- Avenue V Pumping Station Upgrade
 - ◆ DSDC activities continued, including shop drawing review, coordination drawing review, change order preparation, and inspection.
- New Force Mains
 - ◆ DSDC is completed.

Construction

- Avenue V Pumping Station Upgrade
 - ◆ **Work was initiated on the following: Main Building/MER refrigerant piping, duct work, wing walls, 1" electrical conduit installation CRAC and EUH. Delivery of fuel storage tank,**
 - ◆ **Work was ongoing on the following: air conditioning units for the mechanical equipment room and the control room, louvers installation. Main Building Control Room repairs, fire sprinkler system, cast iron restoration work, conduit/wire installation; perimeter wall; tie in piping for final maintenance of facility operations.**
 - ◆ **Work continued on the following: Main Building/MER: terra cotta work, cast iron restoration including lead removal, installation of structural steel runway beams for bridge crane, Control Room repairs, fire sprinkler system, tie in for final maintenance of facility operation, pipe supports, Wet Well cleaning; LP-1 and ATS panels near LVS, 1" conduit installation towards Generator bldg, shut off, lighting and power conduits and hangers inside MER, LCP 100 conduit installation**
 - ◆ **Work was completed on the following: Main Building platform concrete floors, painting in mechanical equipment room area, Areaway structural steel, variable frequency drives (VFD's), FST vault; and NPS roof construction and waterproofing membrane. Main Building domestic hot/cold water system.**

- ◆ **Work was completed on the following: Main Building/MER: refurbishment of Areaway, fuel lines installation, pipe and equipment supports, all piping work and valves installation. NPS Building – Construction of NPS building including louvers and doors installation, CMU block work and waterproofing membranes and mortar protective coats. Generator Building: CMU block work installation. 4” and 2” electrical conduit system, rack supports for ATS, DP 1 and LPI panels and disconnect switches for 115KV and 15KV transformers, collar/frame installation for M11-6 manholes, 500 MCM cable from paralleling switchgear to low voltage switchgear, NPS lightning protection conduits, installation of the force mains on Avenue V from W.11th Street to the pump station.**
- ◆ EH&S Inspection took place
- New Force Mains
 - ◆ **Continued maintenance of trees and landscape along the Belt Parkway.**
 - ◆ **Commenced punch list activities.**

Missed/Modified Milestones

- ◆ On February 28, 2011, DEP submitted a modification request for the construction completion milestone of the Avenue V Pumping Station Upgrade to align the completion date with that of the Force Main upgrade that is June 30, 2012.

Anticipated Activities for Next Quarter

Design

- DSDC Activities
 - ◆ Shop drawing review and equipment testing.

Construction

- Avenue V Pumping Station Upgrade
 - ◆ Main Building – Construction and installation of terra cotta and existing masonry restoration and cleaning work, cast iron restoration work including lead abatement work, water proof coating, and painting, interior glazed tile restoration, **roof flood testing. Bridge crane**, Switchgear, MCC, VFD electrical connections, HVAC duct. Site work, fuel storage tank (FST) & **pea gravel placement**, perimeter wall and fence work, windows/doors including glass work.
 - ◆ The construction/installation of the Main Building and **MER Basement Area. Completion of the Generator Building, completion of Network Protection Building.**
 - ◆ **The construction of the Network Protection Building and Generator Building wooden roof. Outdoor generator installation. Con Edison equipment installation, electrical connections.**

- ◆ Connect the 42 inch force mains to the Avenue V Pump Station.
- New Force Mains
- ◆ Punch list activities.

Table 12 – Coney Island Creek CSO Projects

<i>Contracts</i> <i>PS-79G, H, P, E</i>		<i>Contract</i> <i>PS-79F</i>
Plan Elements:	Upgrade Avenue V Pumping Station	New Force Mains
Location:	Avenue V PS (Avenue V and West 11th Street)	42-inch to SE-133 (Shore Pkwy. Vic. Verrazano Bridge); 48-inch to vic. Reg. 9A
Actions:	Comprehensive upgrade to automate and increase station capacity to 80 MGD; Lower Wet Well operating level to reduce sewer surcharges; Network Protector Structure to reliably transform utility power; Generator system to improve station reliability; Architectural restoration of Main Building to 1915 appearance	New force mains to convey DWF and WWF
Cost:	\$77,682,643	\$ 114,692,767
Status:	NTP 12/16/05 Construction is 80% complete	NTP 7/23/07. Construction is 100% complete as of 7/31/11

3.8. Newtown Creek CSO

The Newtown Creek CSO Facility Planning area consists of the areas in Brooklyn and Queens from which wet weather runoff drains to the Newtown Creek waterbody and its branches: English Kills, Dutch Kills, Whale Creek, Maspeth Creek and the East Branch. For this CSO planning area, the Waterbody/Watershed Facility Plan, still under review by the DEC, proposes some modifications to the consent order milestones that will ultimately achieve better CSO capture and result in improved water quality, as permitted in the Order in Section III, Paragraph A, Section 3.

This section reports on the progress of facility planning and design of the existing CSO plan, subject to modifications by the Waterbody/Watershed Facility Plan, and includes 1) maximizing flow through the Morgan Avenue Interceptor, 2) the construction of in-stream aeration facilities (Zone I & II) and 3) the construction of an off-line storage tank.

Maximizing flow through the Morgan Avenue Interceptor will include raising the overflow weir in Regulator B1; increasing the sluice gate openings to the interceptor; providing a relief sewer from the St. Nicholas weir to Regulator B1; and providing a throttling gate on the Kent Avenue Interceptor. The Aeration Facilities (Zone I) includes construction of a landside compressor station and installation of an air header in the creek bottom of the Upper English Kills. Based upon the performance evaluation of the Zone I aeration testing, Zone II aeration may be implemented to expand in-stream aeration to include the Lower English Kills, the East Branch and Dutch Kills. The off-line storage facility will control CSO discharge to the English Kills and will include a 9 million gallon tank, a pumping station, and a new gravity drain to drain the tank for treatment at the Newtown Creek WWTP.

Subsequent to the Newtown Creek WB/WS Facility Plan submittal of June 2007, the DEP analyzed additional alternatives to reduce CSOs to Newtown Creek and the East River, including control measures beyond those listed in the 2007 Plan. Based on these analyses and on ongoing discussions between DEP and DEC, DEP proposed to modify the mandated elements currently in the CSO Consent Order constructing a much larger relief sewer in the Newtown Creek drainage area, bending weirs at targeted regulators, and additional floatables controls at targeted regulators and outfalls. In addition, the goals of the Zone II Aeration project have been realigned towards higher dissolved oxygen levels. The projects included in the Modification Request are expected to contribute to improved water quality in a cost-effective manner.

The Modification Request was submitted by DEP to DEC in April 30, 2009. DEC granted a 60-day milestone extension to August 31, 2009 for items VIII.E.2 and VIII.F.3 on June 24, 2009, and further extended the milestone dates to October 31, 2009 on August 27, 2009. DEP responded to these, and on October 30, 2009 requested an additional extension of time for items VIII.E.2 and VIII.F.3 to February 1, 2010, at which time DEP committed to submitting reports related to the Zone I Aeration data collection and analysis. DEP resubmitted the Modification Request on March 31, 2010. The biological and water quality data reports related to Aeration Zone I were provided to DEC on February 1, 2010.

Newtown Creek was added to the US EPA Superfund National Priorities List (NPL) on September 29, 2010. According to EPA, placing Newtown Creek on the list allows the Agency

to further investigate contamination at the site and develop an approach to address the contamination.

Work Performed During This Quarter

Planning

- Off-line Storage Tank
 - ◆ No actions to report this quarter.

Design

- Maximize Flow to Morgan Ave. Interceptor
 - ◆ Kent Avenue Throttling Facility design has been completed.
- Phase 1 Aeration Facility
 - Design completion was certified December 2008 and accepted February 2009. Start-up of the facility first occurred on June 25, 2009. Sampling for the Second Year Post-Operational Habitat Monitoring was performed and a report prepared.
- Phase 2 Aeration Facilities
 - **Bids were received for the construction project for the addition of a third blower to the Phase I Aeration Facilities and associated aeration system for the Lower English Kills. The construction contract is in the process of being registered.**
 - **Design on the East Branch and Portions of Newtown Creek Enhanced Aeration continues.**
 - The Final Design completion Contract Drawings and Specifications for the addition of a third blower to the Phase I Aeration Facilities and associated aeration system for the lower English Kills was completed in accordance with the technically accepted Modification Request item referred to as “Enhanced Aeration – Lower English Kills.”

Construction

- Phase 1 Aeration Facilities
 - Construction of the Phase 1 Aeration Facilities was complete as of December 2008.
- Kent Avenue Throttling Facility
 - ◆ DEP certified that the Notice to Proceed to Construction for the Kent Avenue Throttling Facility had occurred prior to the June 2009 milestone in a letter dated September 29, 2009. The construction is occurring under Newtown Creek WWTP contract NC-36.
 - ◆ The remaining work has not been scheduled yet but is expected to be completed before milestone date. The work is 90% complete.

Missed/Modified Milestones

- ◆ DEP submitted a Modification Request on April 30, 2009 to eliminate certain elements and replace with more cost-effective elements that achieve similar or greater water quality benefits. A revised Modification Request was submitted on March 31, 2010. Biological and water quality data reports related to Aeration Zone I were provided to DEC on February 1, 2010 in support of this request.
- ◆ On January 7, 2011, DEC determined that the Newtown Creek Modification Request submitted as part of the May 5, 2010 “Omni” letter and updated on December 14, 2010 was technically acceptable.

Anticipated Activities for Next Quarter*Design*

- Maximize Flow to Morgan Ave. Interceptor
 - ◆ Continue design of the Regulator B-1 Modifications.
 - ◆ Continue design of St. Nicholas Avenue Weir to Regulator B-1 Relief Sewer.
- Phase 1 Aeration Facility
 - ◆ Prepare for commencement of seasonal operation.
- Phase 2 Aeration Facilities
 - ◆ **Award construction contract CSO-NC-2 for the addition of a third blower to the Phase I Aeration Facilities and associated aeration system for the Lower English Kills.**
 - ◆ **Complete a Phase 2 Environmental Assessment of the East Branch and Portions of Newtown Creek Enhanced Aeration proposed location for the Blower Building.**
 - ◆ Complete final design of third blower installation in the Phase I Aeration Facility building for the Lower English Kills.
 - ◆ Advertise Contract CSO-NC-2 for the installation of the third blower in the existing English Kills blower building, which would serve the Lower English Kills.
 - ◆ Survey and perform environmental audits on the DCAS property proposed for the aeration facility that would serve the East Branch and portions of Newtown Creek.

Construction

- Phase 1 Aeration Facility
 - ◆ Bureau of Wastewater Treatment takeover.
- Kent Avenue Throttling Facility
 - ◆ The remaining electrical work has not been scheduled yet but is expected to be completed before milestone date.

Table 13 – Newtown Creek CSO Projects

	<i>Maximize flow through Morgan Ave. Interceptor</i>	<i>Throttling Facility</i>	<i>Phase 1 - Aeration Facilities</i>	<i>Phase 2 - Aeration Facilities</i>	<i>Off-line Storage Tank</i>
Location:	Regulator B1 and WWTP throttling chamber	Kent Avenue Interceptor upstream from Morgan Avenue Interceptor	Head end of English Kills, south of Grand Street	Lower English Kills, Dutch Kills, East Branch and Newtown Creek	Sewers tributary to CSO outfall discharging to English Kills
Actions:	Raise overflow weir in R-B1; increase sluice gate openings to interceptor; provide relief sewer from St. Nicholas weir to R-B1	Continued Construction	Provide aeration to raise DO to a goal of 3.0 mg/l; includes landside compressor station, air header, and diffuser assembly.	Provide aeration to raise DO to a goal of 3.0 mg/l per the technically accepted Modification Request; includes landside compressor station, air header, and diffuser assembly.	Design facility including tank, pumping station, and gravity drain for treatment at the Newtown Creek WWTP.
Cost:	\$10,000,000	\$1,000,000	\$7,503,000	\$26,000,000	TBD
Status:	Throttling gate at the WWTP is 100% complete; B-1 overflow weir and relief sewer to be replaced by new elements in Modification Request	Throttling gate at Kent Avenue 90% Complete	Construction 100% complete: DEP certified 12/31/08; DEC approved 2/25/09. Operated during 2009 and 2010 summer season.	Continue design and site selection of the Aeration Systems for the Dutch Kills, East Branch and Newtown Creek under Contract NC-EK-IV. Register construction project for the aeration system for the Lower English Kills.	Project to be replaced by new elements in Modification Request
Other Issues:	Technical Acceptance of Modification Request received January 7, 2011.	Remaining work not scheduled but expected to be completed by milestone date.	Water quality and habitat monitoring data reports submitted to DEC	Technical acceptance of Modification Request received January 7, 2011.	Technical acceptance of Modification Request received January 7, 2011.

3.9. Westchester Creek CSO

The Westchester Creek CSO Facilities Planning area consists of the drainage area of CSO Outfall HP-014, which discharges at the head end of the Creek. Westchester Creek receives discharges from five CSO outfalls; however, discharges from CSO Outfall HP-014 were determined to be the primary cause of water quality degradation in the Creek. CSO Outfall HP-014 serves a drainage area of approximately 2,321 acres within the Hunts Point WWTP service area in the Borough of the Bronx. For this CSO planning area, the June 2007 Waterbody / Watershed Facility Plan DEC reviewed and provided comment in January 2010 analyzes cost effective CSO control measures for this waterbody and proposes modifications to the scope of the existing CSO facilities plan, as permitted in the Order in Section III, Paragraph A, Section 3.

The current Westchester Creek CSO Abatement Facilities Plan, subject to modifications by the Waterbody/Watershed Facility Plan recommendations, will be constructed in two phases with Phase I consisting of the facilities to divert the combined sewage to the CSO storage tank, as well as rehabilitation of an existing tide gate chamber, and Phase II consisting of the CSO storage tank. This section reports on the progress of Phases I and II of the Westchester Creek CSO Abatement Facilities Plan.

Phase I includes construction of the diversion chamber in Eastchester Road, construction of the 2 MG CSO supply/storage conduit along Waters Place between the diversion chamber and the 10 MG CSO storage tank, and rehabilitation of the existing tide gate chamber located at CSO Outfall HP-014. Phase II includes construction of the 10 MG CSO storage tank in the southwest section of the BPC Campus, including an operations building to house operational units, and installation of the required fencing at the site.

Work Performed During This Quarter

Design

- Phase I – Influent Sewers
 - ◆ The DEP submitted the revised Westchester Creek Waterbody/Watershed Facility Plan Report in November 2010 that recommended replacing this element in Appendix A of the Order.
- Phase II – CSO Storage Facility
 - ◆ The DEP submitted the revised Westchester Creek Waterbody/Watershed Facility Plan Report in November 2010 that recommended replacing this element in Appendix A of the Order.

Construction

- ◆ Construction has not yet been initiated.

Missed/Modified Milestones

- ◆ The May 5, 2010 modification request submitted by DEP included a specific request to defer the June 30, 2010 milestone for completion of design for the Westchester Creek

Phase I Influent Sewers to September 2010. The June 2007 Westchester Creek WWFP proposed replacing the facility with weir modifications at the head end of Westchester Creek and floatables control at Pugsley Creek. DEC provided comments on this WWFP on January 20, 2010, raising an issue regarding the additional CSO flow that would be discharged to the tidal mud flats at Pugsley Creek. Discussions between DEP and DEC technical staff during the first and second quarters of 2010 indicated that a new parallel sewer from regulator structure CSO-24 to a downstream location in the existing collection system could relocate CSO away from the head end of Pugsley Creek, and DEP requested that the milestone be modified to September 2010 to allow time to complete analyses associated with this sewer concept. DEP also committed to submitting a subsequent modification request along with a detailed justification 60 days prior (i.e., July 31, 2010). DEC Responded to this request on June 28, 2010, stating that it would exercise enforcement discretion. On August 25, 2010 DEC determined that the proposed cost-effective sewer improvements were technically acceptable alternatives to the 12 MG CSO storage facility in the CSO Consent Order.

Anticipated Activities for Next Quarter

- Phase I – Influent Sewers
 - ◆ DEP submitted a Modification Request for completion of final design of the Phase I Influent Sewers on July 30, 2010.

Table 14 – Westchester Creek CSO Project

Plan Elements:	Westchester Creek CSO Supply/Storage Conduit, CSO Storage Tank and Little League Amenities
Location:	Bronx Psychiatric Center Campus, and along Eastchester Road and Waters Place in the Bronx
Actions:	Design and construction of an underground CSO storage tank with a capacity of 12 MG (including the storage capacity within the supply/storage conduit) to provide abatement at CSO Outfall HP-014 on Westchester Creek; design and construction of an operations building;
Cost:	Under Revision
Status:	On August 25, 2010 DEC determined that certain cost-effective sewer improvements proposed by DEP were technically acceptable alternatives to the 12 MG CSO storage facility.
Other Issues:	

3.10. Bronx River CSO

The modified CSO facilities plan for the Bronx River recommends that floatables control facilities be provided at CSO Outfalls HP-004, HP-007 and HP-009, within the Hunts Point WWTP drainage area, to minimize the discharge of unsightly floatable material. This modified plan eliminated the previously proposed 4 MG CSO storage facility due to limited benefits in the improvement of water quality in the Bronx River.

For CSO Outfall HP-004, which is located on the west bank of the Bronx River just north of the Cross Bronx Expressway and serves a drainage area of approximately 582 acres, the recommended floatables control facility consists of providing in-line netting within a new conduit located upstream of the outfall along West Farms Road. For CSO Outfall HP-007, which is located on the east bank of the Bronx River just north of the Sheridan Expressway and serves a drainage area of approximately 1,693 acres, the recommended floatables control facility consists of providing mechanical screens within Regulators 27 and 27A located upstream of the outfall. For CSO Outfall HP-009, which is located on the east bank of the Bronx River near the confluence with the East River and serves a drainage area of approximately 436 acres, the recommended floatables control facility consists of providing in-line netting within Regulator 13, located within Soundview Park upstream of the outfall.

Work Performed During This Quarter

Design

- ◆ Design completion was certified in May 2009.

Construction

- ◆ Construction commenced on January 15, 2010.
- ◆ At the Bronx Park Avenue site (CSO-27A)
 - **Continued excavation of bedrock.**
 - **DEP issued a Notice of Force Majeure on October 3, 2011, citing unforeseen subsurface conditions that have impacted the installation of excavation support. DEP is exercising best efforts to minimize delays related to the Construction Completion milestone of June 30, 2012.**
- ◆ At the Bronx Zoo site (CSO-27),
 - **Testing of installed bar screens.**
- ◆ At the Soundview Park site (CSO-13/HP-009),
 - **Completed park entrance road to netting facility.**
- ◆ At the West Farms Road site (CSO-28/HP-004),
 - **Coordinated with NYSDOT and NYCDOT on the restoration of NYSDOT property.**
 - **Testing of installed netting systems.**

Missed/Modified Milestones

- ◆ There are no missed milestones.

Anticipated Activities for Next Quarter

- *Planning*
 - ◆ No activities to report.
- *Construction*
 - ◆ Complete all construction activities and test floatable control systems.

Table 15 – Bronx River CSO Project

Plan Elements:	Floatables Control Facilities at CSO Outfalls HP-004, HP-007 and HP-009
Location:	New conduit (West Farms Road) upstream of CSO Outfall HP-004, Regulator 27 (Bronx Park Avenue) and Regulator 27A (Bronx Zoo) upstream of CSO Outfall HP-007, and Regulator 13 (Soundview Park) upstream of CSO Outfall HP-009
Actions:	Design and construction of floatables control facilities for CSO Outfalls HP-004, HP-007 and HP-009
Cost:	Current Cost \$28,246,659
Status:	Construction is 85% complete.
Other Issues:	

3.11. Hutchinson River CSO

The Hutchinson River CSO Facilities Planning area consists of the drainage areas of CSO Outfalls HP-023 and HP-024 in the Hunts Point WWTP drainage area. The Hutchinson River receives discharges from five CSO outfalls; however, discharges from CSO Outfalls HP-023 and HP-024 were determined to be the primary cause of water quality degradation in the River. CSO Outfall HP-023, which is located on the west bank of the Hutchinson River near the southern end of Conner Street, serves a drainage area of approximately 300 acres. CSO Outfall HP-024, which is located on the west bank of the Hutchinson River near the intersection of Boston Road and 233rd Street, serves a drainage area of approximately 1,100 acres. For this CSO planning area, the Waterbody/Watershed Facility Plan, currently under review by the DEC, analyzes cost effective CSO control measures for this waterbody and proposes modifications to the scope of the existing CSO facilities plan, as permitted in the Order in Section III, Paragraph A, Section 3.

The current Hutchinson River CSO Abatement Facilities Plan, subject to modifications by the Waterbody/Watershed Facility Plan, will be constructed in two phases with Phase I consisting of a 4 MG CSO storage tank to provide abatement at CSO Outfall HP-023 and Phase II a 3 MG CSO storage tank to provide abatement at CSO Outfall HP-024. This section reports on the progress of Phases I and II of the Hutchinson River CSO Abatement Facilities Plan.

Phase I includes construction of a southern 4 MG CSO storage tank to be located adjacent to the Hutchinson River wholly within the boundary limits of Public Place Site, which is land near the southern end of Conner Street currently controlled by the DPR. Phase II includes construction of a northern 3 MG CSO storage tank to be located adjacent to the Hutchinson River along Hutchinson Avenue on land currently owned by Pascap Export, Inc.

DEC issued a letter to DEP date May 22, 2009 that prompted a series of discussions on the proposed Hutchinson River Waterbody/Watershed Facility Plan, and on July 31, 2009, DEP submitted a proposed sampling plan for the Hutchinson River that DEC approved. Sampling occurred during August and October 2009, and was presented to DEC on October 1 and December 10, 2009.

Based on conversations with DEC, the DEP retracted the existing WWFP to better identify causes of impairment based on a more robust sampling program and to further evaluate cost effective alternatives consistent with the EPA CSO Policy. DEC provided comments to the June 2007 WWFP on May 22, 2009, in response to which DEP agreed to conduct water quality sampling. On January 4, 2010 DEC directed DEP to submit a letter outlining its strategy and timeline for submitting an approvable WWFP subsequent to that sampling effort. A conference call was convened by DEP and DEC on January 29, 2010, and on February 1, 2010 DEP responded. On February 19, 2010, DEC acknowledged the February 1 DEP letter and reaffirmed its direction for DEP to submit a water quality sampling plan and scoping document. DEP submitted the water quality sampling plan to DEC on May 24, 2010 that was rejected by DEC on July 2, 2010.

Work Performed During This Quarter

Design

- Phase I – 4 MG CSO Storage Tank
 - ◆ DEP received comments from the DEC on the June 2007 Hutchinson River Waterbody/Watershed Facility Plan which includes modifications to the elements included in Appendix A of the Order on May 22, 2009. Alternative CSO abatement technologies are under consideration.
- Phase II – 3 MG CSO Storage Tank
 - ◆ DEP received comments from the DEC on the June 2007 Hutchinson River Waterbody/Watershed Facility Plan which includes modifications to the elements included in Appendix A of the Order on May 22, 2009. Alternative CSO abatement technologies are under consideration.

Construction

- ◆ Construction has not yet been initiated.

Missed/Modified Milestones

- ◆ On May 5, 2010 DEP requested a modification of the June 30, 2010 milestone for completion of final design for a CSO storage facility for the Hutchinson River, as well as all other outstanding Hutchinson River CSO milestones (XI.A.2 through XI.E). The influence of Westchester County water quality has been the subject of discussions between DEC and DEP technical staff, and DEP requested that a waste load allocation analysis be performed that can be used as a basis to finalize the LTCP for the Hutchinson River. In addition, DEP proposed eliminating the requirement to submit a WWFP and proceed directly to the development of an LTCP as suggested by DEC. DEC Responded to these requests on June 28, 2010, stating that it would exercise enforcement discretion.
- ◆ DEP submitted a revised sampling plan on October 15, 2010, as well as an updated modification request on the same date. DEC commented on the revised sampling plan on November 19, 2010, and DEP responded to these comments on December 20, 2010.
- ◆ DEC sent additional comments on the proposed Hutchinson River sampling plan on March 25, 2011.
- ◆ DEP submitted to DEC a field sampling and analysis plan on September 15, 2011.
- ◆ Respond by November 9, 2011 to DEC comments sent on September 23, 2011 on the proposed field sampling and analysis plan.
- ◆ **DEP received comments on the Hutchinson River Water Quality Sampling Plan from DEC on December 20, 2011.**

Anticipated Activities for Next Quarter

- ◆ Based on delays in Westchester County’s confirmation of participation and funding issues, the water quality sampling plan will commence in the spring of 2012.
- ◆ **DEP will request in writing access to certain sampling locations from the City of Mount Vernon.**

Table 16 – Hutchinson River CSO Project

Plan Elements:	Hutchinson River CSO Storage Facilities
Location:	City-owned property at southern end of Conner Street adjacent to Hutchinson River; privately-owned property along Hutchinson Avenue adjacent to Hutchinson River
Actions:	Design and construction of a 4 MG CSO storage tank and a 3 MG CSO storage tank to provide abatement at CSO Outfalls HP-023 and HP-024, respectively; rehabilitation of existing CSO Outfalls HP-023 and HP-024
Cost:	Under Revision
Status:	Alternatives under consideration
Other Issues:	Water quality sampling plan under negotiation, and may require coordination with Westchester County.

3.12. Jamaica Bay CSO

The Jamaica Bay CSO Abatement Facility Plan addresses CSOs in the 26th Ward WWTP drainage area, specifically the CSO discharges to Fresh Creek, Hendrix St. Canal and Spring Creek, as well as other tributary waters with CSO discharges to Jamaica Bay. The phased plan for the 26th Ward tributaries includes: Phase I includes cleaning of sewers in the 26th Ward drainage area and interim dredging of the head-end of Hendrix St Canal. Subsequent phases include development of waterbody/watershed plans for the 26th Ward tributaries under the Citywide Long Term Control Plan for CSO and expansion of the wet weather capacity of the 26th Ward WWTP by 50 MGD.

In addition to the facility plan recommendations, the existing Spring Creek Auxiliary WWTP has been upgraded. The project was developed under another program, but was subsequently listed as a recommended project in the Jamaica Bay CSO Abatement Facility Plan. The Spring Creek AWPCP is a CSO facility that receives flow from the Autumn Avenue Regulator in Brooklyn and the 157th Avenue Regulator in Queens. The flow is conveyed to the plant through six barrels and is distributed to six basins. If stored flow reaches an elevation of 1.0, the 24 effluent sluice gates at the effluent end of each of the basins open, allowing flow to be discharged to Spring Creek.

The key components of the Spring Creek AWPCP upgrade include lowering the roof and providing enhanced HVAC and odor control systems, improved chemical systems, and new basin wash down systems.

In order to resolve remaining outstanding requirements of the omnibus Order on Consent dated June 18, 1999 (#R2-0045-93-05, the "Omni IV Order"), DEP and DEC agreed to include the Rockaway Omni IV Order in the 2008 modification to the 2005 CSO Consent. This requires the design of flow upgrades and construction of all necessary facilities to ensure that the Rockaway WWTP and associated sewer system is capable of delivering accepting, and treating influent at or above twice the plant's design flow during any storm event.

Work Performed During This Quarter

Design

- Expansion of 26th Ward WWTP Capacity
 - ◆ DEP has requested modification of the milestone for final design completion to December 2010 to allow more time to develop alternative wet weather and sewer optimization strategies.
 - ◆ DEP made a presentation related to this modification during the September 2010 CSO Technical Meeting.
 - ◆ On October 1, 2010 DEC issued a Notice of Violation on the milestone for the 26th Ward Wet Weather Expansion, Final Design, Submit Form 2A SPDES Application. DEP responded to the NOV on October 8, 2010.

- ◆ On December 30, 2010 DEP submitted a feasibility plan for the wet weather expansion in accordance with the commitment made in the May 5, 2010 “Omni” modification request letter. DEP proposed replacing the wet weather expansion with a combination of high level sewer separation and green infrastructure. A technical memo was provided evaluating these alternatives.

Construction

- Spring Creek AWPCP Upgrade
 - ◆ The certification of construction completion was sent to DEC in April 2007 in satisfaction with the milestone.
- 26th Ward Drainage Area Sewer Cleaning and Evaluation
 - ◆ DEP Certified Construction Completion of the 26th Ward Drainage Area Sewer Cleaning on May 17, 2010. A Final Inspection meeting was held with DEC personnel on June 28, 2010. A follow-up inspection occurred on October 5, 2010, and DEC accepted the Certificate of Construction Completion on December 13, 2010.
- Hendrix Street Canal Dredging
 - ◆ **The contractor substantially completed dredging and capping for contract purposes on October 17, 2011.**
 - ◆ **2) DEP Certified Construction Completion of the Hendrix Creek Dredging on November 18, 2011. DEC acknowledged receipt of the certification on November 21, 2011. A copy of the certification is provided in Appendix A.**

Missed/Modified Milestones

- Expansion of 26th Ward WWTP Capacity
 - ◆ On May 5, 2010 DEP request a modification of the Wet Weather Expansion (XII.F) and associated milestones, deferring the next milestone (final design completion, June 30, 2010) until December 2010. Regulatory, constructability, and cost issues may render the expansion infeasible. DEP requested the deferral to provide more time to develop alternative wet weather and sewer optimization strategies and to complete designs associated with portions of the wet weather expansion that have other operational benefits. DEP also committed to submitting an updated modification request along with a detailed justification 60 days prior to the requested milestone extension date – October 31, 2010. DEP submitted a feasibility plan for the wet weather expansion in accordance with this commitment on December 30, 2010.
 - ◆ **DEP Certified Initiation of Design for the 26th Ward WWTP Wet Weather Stabilization on December 30, 2011. A copy of the certification is provided in Appendix A.**

Anticipated Activities for Next Quarter

- Expansion of 26th Ward WWTP Capacity

Table 17 – Jamaica Bay CSO Projects

Plan Elements:	Dredging	26 th Ward Drainage Area Sewer Cleaning and Evaluation	Expansion of 26 th Ward WWTP Capacity	Spring Creek Upgrade	Rockaway WWTP Conveyance Improvements
Location:	Phase I- Interim Dredging of Hendrix Street Canal	Phase I-Portions of sewers in Williams, Hegeman and Flatlands Avenues	Phase IV- 26 th Ward WWTP, Brooklyn	Spring Creek, Brooklyn	Rockaway WWTP, Queens
Actions:	Removal of CSO sediment mounds from the head end of the Hendrix Street Canal	Contractor initiated work August 2008	Increase wet weather capacity by 50 MGD	Upgrade of existing CSO facility	Improve collection system and WWTP capacity to achieve 2DDWF
Project Cost:	\$13.2 million	\$3.88 million		\$87 million	TBD
Status:	Construction 100% complete	100% Complete	Alternative approaches under evaluation	100% complete	Construction Completion in December 2017
Other Issues:		-	Feasibility Plan submitted to DEP 12/30/10	-	Construction Completion in December 2017

3.13. Citywide Comprehensive Floatables Plan

Work Performed During This Quarter

- ◆ The floatables monitoring program completed its transition from a pilot phase to a full scale program as of February 2008. In the First Quarter of 2011, floatables-monitoring activities have continued as part of the following ongoing programs:
 - Harbor Water Quality Survey: DEP continued floatables monitoring incorporated into existing cruise schedules at roughly 50 sites.
 - Public Participation: The public participation component is conducted by the New York City Beach Floatables Survey Program (Survey Program), a volunteer group that has been performing counts of beach floatables during the warm-weather season for several years. During this quarter, the public participation coordinator identified and contacted potential volunteers for monitoring assignments at roughly 50 sites for the upcoming warm-weather season.
 - Long Term Control Plan post construction compliance monitoring (PCM): Floatables monitoring is conducted as part of the PCM for the LTCP facilities that are on line (i.e., Flushing Bay and Spring Creek CSO retention facilities). DEP summarizes collected floatables information for these facilities in monthly reports that are provided to the State.
 - Environmental Benefit Shoreline Cleanup Program –This program was undertaken in connection with the settlement of an enforcement action taken by New York State and DEC for violations of New York State law and DEC regulations (the Nitrogen Consent Judgment). No activities occurred related to this warm-weather program during the First Quarter of 2011.
- ◆ The CY2010 Floatables Monitoring Program Progress Report was completed during the first quarter of 2010 and submitted to the NYSDEC on April 1, 2011.

Missed/Modified Milestones

- ◆ There are no missed milestones.

Anticipated Activities for Next Quarter

- ◆ Continue floatables-monitoring program activities, including monitoring at all active Harbor Water Quality Survey sites.
- ◆ Recruitment of volunteers and ongoing planning for the continuing public-participation element of the Floatables Monitoring program for the 2010 bathing season.

3.14. Environmental Benefits Projects

These projects were undertaken in connection with the settlement of an enforcement action taken by New York State and DEC for violations of New York State law and DEC regulations. The 2008 Modification to the CSO Consent Order requires not less than four million dollars (\$4,000,000) worth of DEP-funded Environmental Benefit Projects (EBPs) designed to abate CSOs and/or address wet weather water quality impacts of CSOs and to benefit the waters in and around New York City. The 2008 Order further stipulates that the Quarterly Reports required by Section IV of the 2005 CSO Order shall include a report on the status of these EBPs and funds expended on the EBPs during the prior quarter, including a detailed EBP status and cost accounting of all funds expended, and general estimates of the costs expected to be incurred during the following quarter.

DEP submitted an approvable CSO EBP Plan to DEC in March 2008 that included the implementation of a suite of stormwater management techniques for the Bronx, Flushing, and Gowanus watersheds. The status of these programs is summarized below. The March 2008 EBP Plan was approved April 28, 2008.

Work Performed During This Quarter

Bronx River

- ◆ **Development and signing of a license agreement between DEP and NYCHA to allow surveyors onto property to begin the design of the green infrastructure installations. Outreach to other property owners was also completed. RFP for surveying was developed and issue on December 5, 2011. Site safety plan was developed by Mercator Land Surveying and accepted by DEP. Most of the field work for the survey has been completed and some initial design drawings have been developed, but some utilities need to be added before final design can begin. We have also had several design team update meetings with the grantee.**

Flushing Creek

- ◆ **Designs for modular green roof proposed under the Manhattan College grant are completed and awaiting construction in spring 2012. Grantee has received three bids to build the modular green roof. Lowest bid was selected. Start-up funds were distributed during this period.**
- ◆ **Unisphere has completed the land surveying for topographic information and has issued an RFP for soil boring and permeability testing. Lab results are expected to be reviewed in late January 2012. A draft soil conditions report for Meadow Lake, which includes the items outlined by DEP's site assessment team for the development of the soil boring RFP.**
- ◆ **Regional Plan Association has collected hand auger soil boring information and characterized onsite soils. Early development and discussion of proposed monitoring plan is currently underway. Plan elements and selection of plant material have been completed, and 30% designs have been developed.**

- ◆ **Despite allowing Columbia to increase their budget, Columbia University has decided not to take the grant, the various team members from the original grant will now be under the direction of Drexel University.**

Gowanus Canal

- ◆ **Grantee has received information from site survey contract. Using information from this survey, bioswale layout is currently being developed. Property owner permission forms have been received. Development of presentation material for Community Board in January and filing of paperwork to received additional matching funds. Start-up funds have been distributed during this period.**

DEC US Forestry Service Grant

- ◆ **The Gaia institute started developing plans with the contractor for retrofitting existing tree pits with stormwater inlets. USFS is currently reviewing a draft contract for matching funds.**
- ◆ **Riverkeeper and their consultant continued working on the design and public outreach. USFS is currently reviewing a draft contract with Riverkeeper for the matching funds.**

Anticipated Activities for Next Quarter

Bronx River

- ◆ **Using soil and topographic information, 30% designs will be developed.**

Flushing Creek

- ◆ **Manhattan College, RPA and Unisphere will continue to develop designs and collect additional field information as required.**

Gowanus Canal

- ◆ **Gowanus Canal Conservancy will continue to develop designs and collect additional field information as required.**

DEC US Forestry Service Grant

- ◆ **Once the matching funds have been secured the Gaia institute will design and construct the street tree retrofits and hook up monitoring equipment.**
- ◆ **Once the matching funds have been secured Riverkeeper will commence construction.**

Table 18 – 2008 Modified CSO Consent Order Environmental Benefits Projects

<i>Plan Elements:</i>	<i>Bronx River</i>	<i>Flushing Bay and Creek</i>	<i>Gowanus Canal</i>	<i>DEC US Forestry Service Grant</i>
Location:	HP-009 service area	Multiple areas	6th St / 2nd Ave, Brooklyn	Bronx River and Newtown Creek CSO Areas
Description:	Stormwater BMP evaluations	Manhattan College New York Hospital Green roof (\$660,440); RPA bioretention basins under the LIE (\$600,000); Unisphere treatment wetlands and rain gardens for Meadow Lake (\$386,551); Columbia University Rego Park Green Streets (\$389,187);	Gowanus Canal Conservancy 6th Street Green Corridor Project	Enhanced tree pit evaluation in HP-009 service area; Green infrastructure installation in Newtown Creek CSO shed; Open source access for Drexel University’s LIDRA model; Education and stewardship activities in the HP-009 area.
Cost:	Budget: \$850,000 Cost to date: \$0 This Qtr: \$0 Next Qtr: \$75,000	Budget: \$2,036,178 Cost to date:\$300,000 This Qtr: \$150,000 Next Qtr: \$150,000	Budget: \$583,470 Cost to date: \$75,000 This Qtr: \$75,000 Next Qtr: \$10,000	Budget: \$250,000 Cost to date: \$181,350 This Qtr: \$2,800 Next Qtr: ~\$19,000
Status:	DEP – NYCHA license agreement for surveyor access signed; completed property owner outreach; surveying RFP issued 12/5/2011; design in progress and grantee updates ongoing.	Designs for Manhattan College are complete ; Unisphere, and RPA designs are underway; soil boring and topographic information being collected for each location along with utility information.	Bioswale layout currently being developed based on site survey information; Received property owner permission forms; prepared presentation for Jan 2012 Community Board meeting; paperwork to received additional matching funds filed	LIDRA model completed; tree pits installed; GI site selected and design underway.
Other Issues:	None	None	None	USFS contracts under review.

4.0 Compliance Status

4.1. Unresolved Delays

See Section 7.0, Other Issues.

4.2. Compliance Charts

The following table summarizes the milestone dates developed in the Consent Order and updates available through **December 2011**:

Table 19 – Consent Order Milestone Dates

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
I. Alley Creek CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Approvable Additional Modified Facility Plan Report	-	Feb 2004	100
3. Submit Form 2A SPDES Application	-	Jun 2003	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Alley Creek Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
2. Submit Approvable East River Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
C. Outfall and Sewer System Improvements			
1. Initiate Final Design	May 1996	-	100
2. Final Design Completion Including CPM Analysis	-	Mar 2002	100
3. Notice to Proceed to Construction	Dec 2002	-	100
4. Construction Completion	-	Dec 2006	100
D. CSO Retention Facility			
1. Initiate Final Design	May 1996	-	100
2. Final Design Completion Including CPM Analysis	-	Dec 2005	100
3. Notice to Proceed to Construction	Dec 2006	-	100
4. Construction Completion	-	Dec 2009 ⁽¹⁾	100
E. Drainage Basin Specific LTCPs			
1. Submit Approvable Drainage Basin Specific LTCP for	-	Apr 29 2010	50

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
Alley Creek			
2. Submit Approvable Drainage Basin Specific LTCP for East River	-	6 mos. after approval of II.B.1.	50
II. Outer Harbor CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Additional Modified Facility Plan Report	-	Feb 2004	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Open Waters Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
C. Regulator Improvements - Fixed Orifices			
1. Initiate Final Design	Jan 2004	-	100
2. Final Design Completion Including CPM Analysis	-	Apr 2005	100
3. Notice to Proceed to Construction	Feb 2006	-	100
4. Construction Completion	-	Jul 2008	100
D. Regulator Improvements – Automation			
1. Initiate Final Design	Feb 2005	-	100
2. Final Design Completion Including CPM Analysis	-	Nov 2006	100
3. Notice to Proceed to Construction	Nov 2007	-	100
4. Construction Completion	-	Jun 2010	100
E. Port Richmond Throttling Facility			
1. Initiate Final Design	Jun 2004	-	100
2. Final Design Completion Including CPM Analysis	-	Aug 2005	100
3. Notice to Proceed to Construction	Jun 2006	-	100
4. Construction Completion	-	Nov 2009	100
F. Submit Approvable Drainage Basin Specific LTCP for Open Waters	-	6 mos. after approval of II.B.1.	50
III. Inner Harbor CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Completed	100

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
2. Submit Additional Modified Facility Plan Report	-	Feb 2004	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Gowanus Canal Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
C. Regulator Improvements - Fixed Orifices			
1. Initiate Final Design	Mar 2000	-	100
2. Final Design Completion Including CPM Analysis	-	Sep 2002	100
3. Notice to Proceed to Construction	Feb 2003	-	100
4. Construction Completion	-	Apr 2006	100
D. Regulator Improvements – Automation			
1. Initiate Final Design	Feb 2005	-	100
2. Final Design Completion Including CPM Analysis	-	Nov 2006	100
3. Notice to Proceed to Construction	Nov 2007	-	100
4. Construction Completion	-	Jun 2010	100
E. In-Line Storage			
1. Initiate Final Design	Jul 2005	-	100
2. Final Design Completion Including CPM Analysis	-	Nov 2006	100
3. Notice to Proceed to Construction	Aug 2007	-	100
4. Construction Completion	-	Aug 2010	100
F. Submit Approvable Drainage Basin Specific LTCP for Gowanus Canal	-	Nov 2015	50
G. Flushing Tunnel Modernization			
1. Notice to Proceed to Construction	Feb 2010	-	100
2. Construction Completion	-	Sep 2014	42
H. Gowanus Pump Station Reconstruction			
1. Notice to Proceed to Construction	Feb 2010	-	100
2. Construction Completion	-	Sep 2014	42
I. Dredging of Gowanus Canal			
1. Submittal of All Dredging Permit Applications		Feb 2, 2012	90
2. Notice to Proceed with Dredging		TBD ⁽²⁾	-

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
3. Complete Dredging		TBD ⁽²⁾	-
IV. Paerdegat Basin CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Additional Modified Facility Plan Report	-	Feb 2004	100
3. Submit Form 2A SPDES Application	-	Jul 2002	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Paerdegat Basin Waterbody / Watershed Facility Plan Report	-	Mar 2003	100
C. Influent Channel			
1. Initiate Final Design	Oct 1994	-	100
2. Final Design Completion Including CPM Analysis	-	Mar 1997	100
3. Notice to Proceed to Construction	Feb 1999	-	100
4. Construction Completion	-	Feb 2002	100
D. Foundations and Substructures			
1. Initiate Final Design	Oct 1994	-	100
2. Final Design Completion Including CPM Analysis	-	Aug 2001	100
3. Notice to Proceed to Construction	Jun 2002	-	100
4. Construction Completion	-	Dec 2009	100 ⁽³⁾
E. Structures and Equipment			
1. Initiate Final Design	Oct 1994	-	100
2. Final Design Completion Including CPM Analysis	-	Nov 2004	100
3. Notice to Proceed to Construction	Sep 2005	-	100
4. Construction Completion	-	May 2011	100 ⁽³⁾
F. Submit Approvable Drainage Basin Specific LTCP for Paerdegat Basin	-	Nov 2005	100
Dredging of Paerdegat Basin			
Submit Joint Application Permit to USACE and DEC to associated with dredging at the head-end and mouth of Paerdegat Basin	-	Dec 2008	100
1. Initiate Final Design	Sep 19, 2010	-	100

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
2. Complete Final Design	-	Sep 19, 2011	100
3. Notice to Proceed with Dredging	Mar 19, 2013	-	-
4. Complete Dredging	-	Mar 19, 2015	-
V. Flushing Bay CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Additional Modified Facility Plan Report	-	Feb 2004	100
3. Submit Form 2A SPDES Application	-	Jun 2003	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Flushing Bay Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
2. Submit Approvable Flushing Creek Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
C. CS4-1 Reroute and Construct Effluent Channel			
1. Initiate Final Design	Oct 1992	-	100
2. Final Design Completion Including CPM Analysis	-	Sep 1994	100
3. Notice to Proceed to Construction	Jun 1995	-	100
4. Construction Completion	-	Jun 1996	100
D. CS4-2 Relocate Ballfields			
1. Initiate Final Design	Oct 1992	-	100
2. Final Design Completion Including CPM Analysis	-	Sep 1994	100
3. Notice to Proceed to Construction	Apr 1995	-	100
4. Construction Completion	-	Aug 1995	100
E. CS4-3 Storage Tank			
1. Initiate Final Design	Dec 1993	-	100
2. Final Design Completion Including CPM Analysis	-	Sep 1996	100
3. Notice to Proceed to Construction	Jul 1997	-	100
4. Construction Completion	-	Aug 2001	100
F. CS4-4 Mechanical Structures - Initiate Final Design			
1. Initiate Final Design	Dec 1993	-	100

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
2. Final Design Completion Including CPM Analysis	-	Feb 2000	100
3. Notice to Proceed to Construction	Mar 2002	-	100
4. Construction Completion	-	Sep 2009	100
G. CS4-5 Tide Gates			
1. Initiate Final Design	Aug 1998	-	100
2. Final Design Completion Including CPM Analysis	-	Nov 1999	100
3. Notice to Proceed to Construction	Dec 2000	-	100
4. Construction Completion	-	Apr 2002	100
H. CD-8 Manual Sluice Gates			
1. Final Design Completion Including CPM Analysis	-	May 2003	100
2. Notice to Proceed to Construction	Feb 2004	-	100
3. Construction Completion	-	Jun 2005	100
I. Drainage Basin Specific LTCPs			
1. Submit Approvable Drainage Basin Specific LTCP for Flushing Bay	-	6 mos. after approval of V.B.1.	50
2. Submit Approvable Drainage Basin Specific LTCP for Flushing Creek	-	6 mos. after approval of V.B.2.	50
J. Tallman Island WWTP and associated sewer system are capable of delivering, accepting and treating influent at or above twice the plant's design flow during any storm event			
1. Initiate Final Design	Dec 2007	-	100
2. Final Design Completion including CPM Analysis	-	Dec 2010	100
3. Notice to Proceed to Construction	Dec 2011	Dec 2011	100
4. Construction Completion	-	Jul 2015	-
B1. Flow Meters (2009 Modification, Appendix B)			
a) Submit flow metering protocols	-	Jul 2009	100
b) Include effluent overflow volumes in monthly reports	-	Within 60 days of DEC approval of 1(a)	-
B2. Odor Control System (2009 Modification, Appendix B)			
a) Apply to register CBS & for inspection variance	-	Sep 2009	100

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
b) Certify completion of start-up and testing	-	Jun 2009	100
c) Demonstrate system to DEC using water	-	Sep 2009	100
d) Certify construction completion	-	Sep 2009	100
B3. Bar Screens (2009 Modification, Appendix B)			
a) Report on repairs and modifications	-	Jun 2009	100
b) Demonstrate full operation to DEC	-	Sep 2009	100
B4. Tallman Island Regulator 9 (2009 Modification, Appendix B)			
a) Submit report describing telemetry/SCADA systems	-	May 2009	100
VI. Jamaica Tributaries CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Apr 2003	100
2. Submit Additional Modified Facility Plan Report	-	Feb 2004	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Bergen Basin Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
2. Submit Approvable Thurston Basin Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
C. Meadowmere & Warnerville DWO Abatement			
1. Initiate Final Design	Jan 2004	-	100
2. Final Design Completion Including CPM Analysis	-	May 2005	100
3. Notice to Proceed to Construction	Jun 2006	-	100
4. Construction Completion	-	Jul 2009	100
D. Expansion of Wet Weather Capacity of Jamaica WWTP			
1. Initiate final Design	Jun 2009	-	-
2. Submit Form 2A SPDES Application	-	Jun 2010	-
3. Final Design Completion Including CPM Analysis	-	Jun 2011	-
4. Notice to Proceed to Construction	Jun 2012	-	-
5. Construction Completion	-	Jun 2015	-
E. Destratification Facility			
1. Initiate Final Design	Jan 2006	-	100

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
2. Final Design Completion Including CPM Analysis	-	Dec 2007	100
3. Notice to Proceed to Construction	Sep 2010	-	100
4. Construction Completion	-	Mar 2012	75
F. Laurelton and Springfield Blvd.			
1. Submit Drainage Plan for Storm Sewer Build-out (extension granted by DEC letter, 2/29/08)	-	May 2008	100
G. Regulator Automation			
1. Initiate Final Design	Feb 2005	-	100
2. Final Design Completion Including CPM Analysis	-	Nov 2006	100
3. Notice to Proceed to Construction	Nov 2007	-	100
4. Construction Completion	-	Jun 2010	100
H. Drainage Basin Specific LTCPs			
1. Submit Approvable Drainage Basin Specific LTCP for Bergen Basin	-	Aug 2012	50
2. Submit Approvable Drainage Basin Specific LTCP for Thurston Basin	-	Aug 2012	50
VII. Coney Island Creek CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Apr 2003	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Coney Island Creek Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
C. Avenue V Pumping Station Upgrade			
1. Initiate Final Design	Apr 1998	-	100
2. Final Design Completion including CPM Analysis	-	Jan 2005	100
3. Notice to Proceed to Construction	Nov 2005	-	100
4. Construction Completion	-	Apr 2011	80
D. Avenue V Force Main			
1. Initiate Final Design	Apr 1998	-	100
2. Final Design Completion Including CPM Analysis	-	Sep 2006	100
3. Notice to Proceed to Construction	Jul 2007	-	100
4. Construction Completion	-	Jun 2012	100

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
E. Submit Approvable Drainage Basin Specific LTCP for Coney Island Creek	-	Jun 2014	50
VIII. Newtown Creek CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Oct 2003	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Newtown Creek Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
C. Aeration Zone I			
1. Initiate Final Design	Mar 2001	-	100
2. Final Design Completion Including CPM Analysis	-	Dec 2004	100
3. Notice to Proceed to Construction	Dec 2005	-	100
4. Construction Completion	-	Dec 2008	100
D. Aeration Zone II			
1. Initiate Final Design	Jun 2007	-	100
2. Final Design Completion Including CPM Analysis	-	Jun 2010 ⁽⁴⁾	100 ⁽⁴⁾
3. Notice to Proceed to Construction	Dec 2012	-	-
4. Construction Completion	-	Dec 2013	-
E. Relief Sewer / Regulator Modification			
1. Initiate Final Design	Jun 2007	-	100
2. Final Design Completion Including CPM Analysis	-	Jun 2009	10
3. Notice to Proceed to Construction	Jun 2010	-	-
4. Construction Completion	-	Jun 2014	-
F. Throttling Facility			
1. Initiate Final Design	Dec 2005	-	100
2. Final Design Completion Including CPM Analysis	-	Jun 2008	100
3. Notice to Proceed to Construction	Jun 2009	-	100
4. Construction Completion	-	Dec 2012	90
G. CSO Storage Facility			
1. Initiate Final Design	Nov 2010	-	-

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
2. Submit Form 2A SPDES Application	-	Nov 2013	-
3. Final Design Completion Including CPM Analysis	-	Nov 2014	-
4. Notice to Proceed to Construction	Dec 2015	-	-
5. Construction Completion	-	Dec 2022	-
H. Submit Approvable Drainage Basin Specific LTCP for Newtown Creek	-	Feb 2016	50
IX. Westchester Creek CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Apr 2003	100
2. Submit Form 2A SPDES Application	-	Submit with final design plans & specs ⁽⁵⁾	-
B. Comprehensive Watershed Planning			
1. Submit Approvable Westchester Creek Waterbody / Watershed Facility Plan Report	Jul 2004	Jun 2007	100
C. Phase I (Influent Sewers)			
1. Initiate Final Design	Jan 2004	-	100
2. Final Design Completion Including CPM Analysis	-	Jun 2010	20
3. Notice to Proceed to Construction	Jun 2011	-	-
4. Construction Completion	-	Jun 2015	-
D. CSO Storage Facility			
1. Notice to Proceed to Construction	Dec 2015	-	-
2. Construction Completion	-	Dec 2022	-
E. Submit Approvable Drainage Basin Specific LTCP for Westchester Creek	-	Feb 2016	50
X. Bronx River CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Sep 2003	100
2. Submit Additional Modified Facility Plan Report	-	Mar 2004	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Bronx River Waterbody / Watershed Facility Plan Report	-	Jun 2007	100

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
C. Floatables Control			
1. Initiate Final Design	Jan 2006	-	100
2. Final Design Completion Including CPM Analysis	-	Jul 2008	100
3. Notice to Proceed to Construction	Jun 2009	-	100
4. Construction Completion	-	Jun 2012	85
D. Submit Approvable Drainage Basin Specific LTCP for Bronx River	-	Jun 2014 ⁽⁶⁾	50
XI. Hutchinson River CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Jul 2003	100
2. Submit Form 2A SPDES Application	-	Submit with final design plans & specs ⁽⁵⁾	-
B. Comprehensive Watershed Planning			
1. Submit Approvable Hutchinson River Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
C. Phase I of the Storage Facility			
1. Initiate Final Design	Apr 2005	-	100
2. Final Design Completion Including CPM Analysis	-	Jun 2010	10
3. Notice to Proceed to Construction	Jun 2011	-	-
4. Construction Completion	-	Jun 2015	-
D. Future Phases			
1. Notice to Proceed to Construction	Dec 2016	-	-
2. Construction Completion	-	Dec 2023	-
E. Submit Approvable Drainage Basin Specific LTCP for Hutchinson River	-	Feb 2017	50
XII. Jamaica Bay CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Dec 2003	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Jamaica Bay Waterbody / Watershed Facility Plan Report	-	Jun 2007	100

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
2. Submit Approvable Spring Creek Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
3. Submit Approvable Fresh Creek Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
4. Submit Approvable Hendrix Creek Waterbody / Watershed Facility Plan Report	-	Jun 2007	100
C. Spring Creek AWPCP Upgrade			
1. Initiate Final Design	Apr 1998	-	100
2. Final Design Completion Including CPM Analysis	-	Feb 2002	100
3. Submit Form 2A SPDES Application	-	Jun 2003	100
4. Notice to Proceed to Construction	Mar 2003	-	100
5. Construction Completion	-	Apr 2007	100
D. 26th Ward Drainage Area Sewer Cleaning and Evaluation			
1. Initiate Final Design	Jan 2007	-	100
2. Final Design Completion Including CPM Analysis	-	Jun 2007	100
3. Notice to Proceed to Construction	-	Jun 2008	100
4. Construction Completion	-	Jun 2010	100
E. Hendrix Creek Dredging			
1. Initiate Final Design	Jan 2007	-	100
2. Final Design Completion Including CPM Analysis	-	Jun 2007	100
3. Notice to Proceed to Construction	Feb 2010	-	100
4. Construction Completion	-	Feb 2012	100
F. 26th Ward Wet Weather Expansion			
1. Initiate Final Design	Jun 2006	-	100
2. Final Design Completion Including CPM Analysis	-	Jun 2010	15
3. Submit Form 2A SPDES Application	-	Submit with final design plans & specs ⁽⁵⁾	-
4. Notice to Proceed to Construction	Jun 2011	-	-
5. Construction Completion	-	Dec 2015	-
G. Drainage Basin Specific Long Term Control Plans			

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
1. Submit Approvable Drainage Basin Specific LTCP for Jamaica Bay	-	Aug 2012	50
2. Submit Approvable Drainage Basin Specific LTCP for Spring Creek	-	Aug 2012	50
3. Submit Approvable Drainage Basin Specific LTCP for Fresh Creek	-	Aug 2012	50
4. Submit Approvable Drainage Basin Specific LTCP for Hendrix Creek	-	Aug 2012	50
H. Rockaway WWTP Conveyance Improvements		Dec 2017	-
XIII. Citywide Comprehensive Floatables Plan			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Dec 2004	100
XIV. Submit Approvable City-Wide LTCP			
	-	Dec 2017	-

Notes: (1) A modification to the completion date from 12/31/2009 to 11/10/2010 was submitted to DEC on 10/30/2009. (2) Dredging NTP 3 years from effective date of permit (EDP); completion within 5 years of EDP. (3) CSO Consent Order elements completed and a Certification of Construction Completion has been submitted. (4) Date reflects Consent Order Milestone; completion reflects progress on technically accepted Modification Request. (5) A modification request to the submittal date of Form 2A was submitted to DEC on 6/29/2010. (6) A modification was requested to extend the completion date from 11/31/11 to 6/30/14 on 11/29/10.

5.0 Community Relations

The Modified CSO Consent Order was publically noticed on October 19, 2011 and the public was given 30 days to submit comments. A public meeting was held on November 9, 2011.

6.0 Key Personnel Changes

There were no key personnel changes during the Fourth Quarter of 2011.

7.0 Other Issues

The following action items were identified during the **December 5th, 2011** CSO Quarterly Meeting:

	Action Item	Response	Target Date	Status
1	Gowanus Canal – DEP to confirm with EPA if there are constraints or restrictions for startup operation of the Flushing Tunnel.		No Target Date Established	Under Development
2	Gowanus Canal – DEP to provide schedules for Flushing Tunnel and Pump Station to confirm that two projects are in sync.	Pump Station Flushing Tunnel	Apr 2013 Aug 2013	Complete
3	Gowanus Canal – DEP to confirm projected completion date is September 2014.	Currently on schedule, but force majeure submitted 1/4/2012	Sept 2014	Ongoing coordination
4	Bronx River – DEP to provide schedule for placing floatables control equipment in operation.		No Target Date Established	Under Development
5	Bronx River – DEP to provide update to FM including definitive schedule impacts and request for extension if required, as well as background information on site conditions provided to contractor, such as boring logs or as-builts.		No Target Date Established	Under Development
6	Paerdegat Basin – DEC to confirm that variance for CSO facility will be handled via the renewal process		No Target Date	Completed 12/6/2011
7	Paerdegat Basin – DEC to provide final inspection checklist		1/31/2012	Completed 12/22/2011
8	Hendrix Creek –DEC to provide final inspection checklist		12/5/2011	Completed 12/6/2011
9	Alley Creek – DEC to provide final inspection checklist		12/23/2011	Completed 12/14/2011

8.0 Status of LTCP Development

According to the Order, the reporting on the progress of the Drainage Basin Specific Long Term Control Plan (LTCP) and Waterbody/Watershed Facility Plan (WWFP) development shall be included in the first and third quarterly reports of each calendar year beginning in the year 2005 and continuing until all Appendix A requirements have been completed and approved.

APPENDIX A
CONSENT ORDER CERTIFICATION LETTERS



Carter H. Strickland, Jr.
Commissioner

Vincent Sapienza, P.E.
Deputy Commissioner
Bureau of Wastewater
Treatment
vsapienza@dep.nyc.gov

James G. Mueller, P.E.
Assistant Commissioner
Planning & Capital Projects
Bureau of Wastewater
Treatment
jmueller@dep.nyc.gov

96-05 Horace Harding
Expressway
Corona, NY 11368
T: (718) 595-5973
F: (718) 595-6950

December 31, 2011

Mr. Joseph DiMura, P.E.
Director, Bureau of Compliance
New York State Department of
Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, NY 12233-3506

Re: Order on Consent DEC Case No. CO2-20000107-8, as modified by CO2-20070101-1 (CSO Order)
Appendix A, V. Flushing Bay CSO, J. Tallman Island WPCP and associated sewer system are capable of delivering, accepting and treating influent at or above twice the plant's design flow during any storm event,
3. Notice to Proceed to Construction – Whitestone Interceptor
Certification of Completion

Dear Mr. DiMura:

In accordance with Paragraph III.F of the above referenced CSO Order, this letter certifies compliance by the New York City Department of Environmental Protection (DEP) with a milestone contained in the CSO Order. Specifically, Notice to Proceed to Construction of the Whitestone Interceptor was issued on December 22, 2011 (see attachment), in conformance with Milestone XII.K.4 of Appendix A. The milestone date is December 31, 2011.

Please contact me at (718) 595-5045 if you have any questions regarding this submittal.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Anthony Maracic'.

Anthony Maracic, P.E.
Director, Capital Planning & Asset
Management
Bureau of Wastewater Treatment

Attach:

cc: Cheryle Webber, P.E.
Environmental Facilities Corporation
625 Broadway
Albany, New York 12207-2997

Robert Elburn, P.E.
DEC Region 2 Water Engineer
47-40 21st Street
Long Island City, New York 11101

Mark Klotz
DEC, Director, Division of Water
625 Broadway, 4th Floor
Albany, NY 12233-3500

Robyn Adair, Esq.
DEC, Water Compliance Counsel
625 Broadway, 4th Floor
Albany, NY 12233-5500

Gary E. Kline, P.E.
DEC, Division of Water
New York City Municipal Compliance Section Chief
625 Broadway, 4th Floor
Albany, NY 12233-3500

William Plache, Esq.
Assistant Corporation Counsel
New York City Law Department
100 Church Street
New York, NY 10007

DEP: J. Mueller, R. LaGrotta, K. Mahoney, L. Lee, K. Donnelly, D. Solimando, H.
Donnelly
H&S: P. Young, File



December 14, 2011

John P. Picone
31 Garden Lane
P.O. Box 9013
Lawrence, NY 11559

Carter H. Strickland, Jr.
Commissioner

RE: **ORDER TO COMMENCE WORK FOR CONTRACT TI-WW1**

Mary F. Pazan
Assistant Commissioner
Agency Chief Contracting Officer
mpazan@dep.nyc.gov

Dear Contractor:

Transmitted herewith is your duly executed contract **TI-WW1** for furnishing all labor and materials necessary and required for the **Tallman Island Wet Weather Maximization**.

59-17 Junction Boulevard
Flushing, NY 11373

The Contract was:

T: (718) 595-3925
F: (718) 595-3278

Awarded to you on	October 12, 2011
Executed on	November 09, 2011
Registered by the Comptroller on	December 08, 2011

The Contract was awarded in the amount of **\$22,821,512.50** and the registration number is **CTC 826 20121419291**.

The commence work date is **December 22, 2011**. You must complete the work within **985 consecutive calendar days** as fixed in the General Conditions, or within the time such completion may be extended. The date to complete all work is **September 02, 2014**.

Upon receipt of this order please contact **Colin A. Johnson**, located at **96-05 Horace Harding Expressway, 4th Floor, (718) 595-4308**.

Yours truly,

Debra Butten
Deputy Agency Chief Contracting Officer



November 18, 2011

Carter H. Strickland, Jr.
Commissioner

Mr. Joseph DiMura, P.E.
Director, Bureau of Compliance
New York State Department of
Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, NY 12233-3506

Vincent Sapienza, P.E.
Deputy Commissioner
Bureau of Wastewater
Treatment
vsapienza@dep.nyc.gov

Re: Order on Consent (CSO Order)
DEC Case #CO2-20000107-8
Appendix A, XII. Jamaica Bay CSO, E. Hendrix Creek Dredging

James G. Mueller, P.E.
Assistant Commissioner
Planning & Capital Projects
Bureau of Wastewater
Treatment
jmueller@dep.nyc.gov

In accordance with Section III.F of the above referenced CSO Order, this letter is to certify compliance by the New York City Department of Environmental Protection with a milestone contained in the Order. Specifically, dredging in Hendrix Creek was completed on October 17, 2011, in conformance with Milestone XII.E.4 of Appendix A. The milestone date is February 28, 2012. Attached please find a copy of the certification memorandum from the construction manager.

96-05 Horace Harding
Expressway
Corona, NY 11368
T: (718) 595-5973
F: (718) 595-6950

Please contact me at (718) 595-5045 if you have any questions regarding this certification.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Anthony Maracic', is written over a light blue horizontal line.

Anthony Maracic, P.E.
Director Capital Planning & Asset Management
Bureau of Wastewater Treatment

Copy With Attachments:

Cheryle Webber, P.E.
Environmental Facility Corporation
625 Broadway
Albany, NY 12207-2997

Robert Elburn, P.E.
DEC Region 2 Water Engineer
47-40 21st Street
Long Island City, New York 11101

Mark Klotz
DEC, Director, Division of Water
625 Broadway. 4th Floor
Albany, New York 12233-3500

Cover Letter Only:

Robyn Adair, Esq.
DEC, Water Compliance Counsel
625 Broadway, 4th Floor
Albany, New York 12233-3500

Gary Kline, P.E.
DEC, Division of Water
New York City Municipal Compliance Section Chief
625 Broadway. 4th Floor
Albany, New York 12233-3500

William Plache, Esq.
Assistant Corporation Counsel
New York City Law Department
100 Church Street
New York, NY 10007

DEP: J. Mueller, A. Maracic, R. LaGrotta, K. Mahoney, L. Lee, K. Donnelly,
R. Tysvaer, D. Chao, H. Donnelly
H&S: P. Young, File



Carter H. Strickland, Jr.
Commissioner

Vincent Sapienza, P.E.
Deputy Commissioner
Bureau of Wastewater
Treatment
vsapienza@dep.nyc.gov

James G. Mueller, P.E.
Assistant Commissioner
Planning & Capital Projects
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Treatment
jmueller@dep.nyc.gov

96-05 Horace Harding
Expressway
Corona, NY 11368
T: (718) 595-5973
F: (718) 595-6950

December 30, 2011

Mr. Joseph DiMura, P.E.
Director, Bureau of Compliance
New York State Department of
Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, NY 12233-3506

Re: Order on Consent DEC Case No. CO2-20000107-8, as modified by DEC Case No. CO2-20110512-25¹ (CSO Order)
Appendix A, XII. Jamaica Bay CSO, K. 26th Ward Wet Weather Stabilization, 4. Initiate Design for 26th Ward Wet Weather Stabilization
Certification of Completion of Proposed Milestone

Dear Mr. DiMura:

In accordance with Paragraph III.F of the above referenced CSO Order, this letter certifies compliance by the New York City Department of Environmental Protection (DEP) with the milestone referenced above, which is associated with work proposed by DEP to be contained in the 2011 modified Order (CO2-20110512-25). Specifically, design of the 26th Ward Wet Weather Stabilization was initiated on March 24, 2011, in conformance with Milestone XII.K.4 of Appendix A. Enclosed is a copy of the Notice to Proceed. The milestone date is December 31, 2011.

In the course of negotiating a modification to the CSO Order, DEP and the New York State Department of Environmental Conservation (DEC) have reached conceptual agreement to include the above referenced project with December 31, 2011 as the milestone date for initiation of design. Thus DEP is proceeding with the work with the expectation that the project will become part of the Order once the modification is finalized.

Please contact me at (718) 595-5045 if you have any questions regarding this submittal.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Anthony Maracic', written over a horizontal line.

Anthony Maracic, P.E.
Director, Capital Planning & Asset Management
Bureau of Wastewater Treatment

¹ CO2-20110512-25 is not yet in effect but is anticipated to be executed in early 2012, which will modify the 2005 Order.

cc:

Mark Klotz
DEC, Director, Division of Water
625 Broadway, 4th Floor
Albany, NY 12233-3500

Robert Elburn, P.E.
DEC Region 2 Water Engineer
47-40 21st Street
Long Island City, New York 11101

Cheryle Webber, P.E.
Environmental Facilities Corporation
625 Broadway
Albany, New York 12207-2997

Robyn Adair, Esq.
DEC, Water Compliance Counsel
625 Broadway, 4th Floor
Albany, NY 12233-5500

Gary E. Kline, P.E.
DEC, Division of Water
New York City Municipal Compliance Section Chief
625 Broadway, 4th Floor
Albany, NY 12233-3500

William Plache, Esq.
Assistant Corporation Counsel
New York City Law Department
100 Church Street
New York, NY 10007

DEP BWT: J. Mueller, K. Mahoney, L. Lee, K. Wong
DEP BEDC: K. Donnelly, D. Solimando, R. Meshkati
DEP Legal: H. Donnelly
H&S: P. Young, T. Groninger, File

Wong, King

From: Solimando, Daniel
Sent: Thursday, December 22, 2011 4:53 PM
To: Solimando, Daniel
Subject: FW: New Assignment for EEDSGN6: 26W-20 BODR

From: Schlessingerman, Alexis
Sent: Thursday, March 24, 2011 10:19 AM
To: 'nbradley@hazenandsawyer.com'
Cc: Meshkati, Ray; Solimando, Daniel; Kharivala, Joan; Dudar, Steve; 'RSmith@hazenandsawyer.com'; 'jbrady@hazenandsawyer.com'; 'EPsaltakis@hazenandsawyer.com'
Subject: RE: New Assignment for EEDSGN6: 26W-20 BODR

Norm,

You are authorized to proceed with the work in connections with the 26W-20 Basis of Design Report for the cost of \$114,176. This work shall be billed to the TOCS contract **EE-DSGN6**. Proceed as noted in the agreed budget and schedule attached. From this point forward take direction from Ray Meshkati, the AM, and his support staff.

Thanks

Alexis Schlessingerman | **Project Manager** | NYC Department of Environmental Protection |
Bureau of Engineering Design & Construction |
(T) 718-595-7503 (C) 718-496-4049 | AlexisSch@dep.nyc.gov

From: Solimando, Daniel
Sent: Thursday, March 24, 2011 10:03 AM
To: 'nbradley@hazenandsawyer.com'; Kharivala, Joan; Schlessingerman, Alexis; 'RSmith@hazenandsawyer.com'
Cc: 'jbrady@hazenandsawyer.com'; 'EPsaltakis@hazenandsawyer.com'; Meshkati, Ray
Subject: Re: New Assignment for EEDSGN6: 26W-20 BODR

Alexis,

Please issue an NTP immediately.

Daniel A. Solimando, P.E.
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Wastewater Capital Program
N.Y.C. D.E.P. - BEDC

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APPENDIX B
NYSDEC COMMENTS ON PREVIOUS QUARTERLY REPORT

**NY& DEC Comments
Quarterly Report
3rd Quarter 2011**

Comments on Quarterly Report:

1. Section 1, Major Actions Next Quarter: this section should include:
 - a. Issue NTPC for Whitestone Interceptor (existing milestone)
 - b. Initiate Design for 26th Ward Wet Weather Stabilization (new milestone)
2. Section 3.4, Paerdegat Basin: provide additional information on the equipment being evaluated in reference to the statement "5E performing trouble shooting on various pieces of equipment".

Questions/Comments for Quarterly Meeting:

1. Provide status of the Flushing Interceptor engineering review.
2. Projected date for NTPC for lower English Kills aeration system (ahead of milestone).
3. Provide update on force majeure for Bronx River floatables control.
4. Provide update on preparation of Gowanus Canal dredging permit application.
5. Provide status of Tallman Island Whitestone interceptor contract award and permits applications.
6. Discuss preliminary results of bathymetric survey for Flushing Bay environmental dredging.
7. Provide update on finalization of GI demonstration project sites and status of 26th Ward project engineering report.
8. Explain cause of ongoing delays for Avenue V pump station project.