



**NEW YORK CITY  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF ENGINEERING DESIGN & CONSTRUCTION  
DEC CASE # CO2-20000107-8**

# **Combined Sewer Overflow Order on Consent Quarterly Progress Report – Second Quarter 2007**



**July 2007**





**DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION**

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July 30, 2007

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Albany, NY 12233


**RE: Order on Consent (CSO Order)  
DEC Case # CO2-20000107-8  
Citywide CSO Program - Quarterly Report**

Dear Mr. DiMura:

In accordance with Section IV, Paragraphs A-C of the above referenced proposed Consent Order, the New York City Department of Environmental Protection hereby submits the Citywide CSO Quarterly Report for the period of April 1 through June 30, 2007.

Should you require further information, please contact me at (718) 595-5973.

Very truly yours,



James G. Mueller, P.E.  
Director  
Facilities Planning and Design



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

CSO Order on Consent  
DEC Case # CO2-20000107-8

QUARTERLY PROGRESS REPORT  
SECOND QUARTER 2007  
(April 1 – June 30)

July 30, 2007

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## 1.0. Executive Summary

The Combined Sewer Overflow “CSO” Order on Consent, DEC Case # CO2-20000107-8 (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. 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 April 1, 2007 to June 30, 2007.

### Major Actions This Quarter:

Table 1 presents the milestones that were met by DEP this quarter and Table 2 shows milestones that were postponed. For each milestone listed in Table 1 below, either met or postponed, written notification was submitted by DEP to DEC. Copies of these certification letters are provided in Appendix A.

**Table 1 – Milestones Met (April 2007 - June 2007)**

LOCATION/PROJECT AREA	ITEM DESCRIPTION	ACTION REQUIRED	CONSENT ORDER MILESTONE DATE	DATE MILESTONE WAS ACHIEVED
Alley Creek	Comprehensive Watershed Planning	Submit Approvable Alley Creek Waterbody / Watershed Facility Plan Report	June 2007	November 2006
East River	Comprehensive Watershed Planning	Submit Approvable East River Waterbody / Watershed Facility Plan Report	June 2007	June 2007
Open Waters	Comprehensive Watershed Planning	Submit Approvable Open Waters Waterbody / Watershed Facility Plan Report	June 2007	June 2007
Gowanus Canal	Comprehensive Watershed Planning	Submit Approvable Gowanus Canal Waterbody / Watershed Facility Plan Report	June 2007	August 2006
Flushing Bay	Comprehensive Watershed Planning	Submit Approvable Flushing Bay Waterbody / Watershed Facility Plan Report	June 2007	June 2007



<b>LOCATION/PROJECT AREA</b>	<b>ITEM DESCRIPTION</b>	<b>ACTION REQUIRED</b>	<b>CONSENT ORDER MILESTONE DATE</b>	<b>DATE MILESTONE WAS ACHIEVED</b>
Flushing Creek	Comprehensive Watershed Planning	Submit Approvable Flushing Creek Waterbody / Watershed Facility Plan Report	June 2007	June 2007
Bergen Basin	Comprehensive Watershed Planning	Submit Approvable Bergen Basin Waterbody / Watershed Facility Plan Report	June 2007	June 2007
Thurston Basin	Comprehensive Watershed Planning	Submit Approvable Thurston Basin Waterbody / Watershed Facility Plan Report	June 2007	June 2007
Coney Island Creek	Comprehensive Watershed Planning	Submit Approvable Coney Island Creek Waterbody / Watershed Facility Plan Report	June 2007	June 2007
Newtown Creek	Comprehensive Watershed Planning	Submit Approvable Newtown Creek Waterbody / Watershed Facility Plan Report	June 2007	June 2007
Westchester Creek	Comprehensive Watershed Planning	Submit Approvable Westchester Creek Waterbody / Watershed Facility Plan Report	June 2007	June 2007
Bronx River	Comprehensive Watershed Planning	Submit Approvable Bronx River Waterbody / Watershed Facility Plan Report	June 2007	June 2007
Hutchinson River	Comprehensive Watershed Planning	Submit Approvable Hutchinson River Waterbody / Watershed Facility Plan Report	June 2007	June 2007
Jamaica Bay	Comprehensive Watershed Planning	Submit Approvable Jamaica Bay Waterbody / Watershed Facility Plan Report	June 2007	June 2007
Spring Creek	Comprehensive Watershed Planning	Submit Approvable Spring Creek Waterbody / Watershed Facility Plan Report	June 2007	June 2007

LOCATION/PROJECT AREA	ITEM DESCRIPTION	ACTION REQUIRED	CONSENT ORDER MILESTONE DATE	DATE MILESTONE WAS ACHIEVED
Fresh Creek	Comprehensive Watershed Planning	Submit Approvable Fresh Creek Waterbody / Watershed Facility Plan Report	June 2007	June 2007
Hendrix Creek	Comprehensive Watershed Planning	Submit Approvable Hendrix Creek Waterbody / Watershed Facility Plan Report	June 2007	June 2007
Jamaica Bay	Spring Creek AWPCP Upgrade	Construction Completion	April 2007	April 2007
Jamaica Bay	26th Ward Drainage Area Sewer Cleaning and Evaluation	Final Design Completion Including CPM Analysis	June 2007	June 2007
Jamaica Bay	Hendrix Creek Dredging	Final Design Completion Including CPM Analysis	June 2007	June 2007
Newtown Creek	Aeration Zone II	Initiate Final Design	June 2007	June 2007
Newtown Creek	Relief Sewer/Regulator	Initiate Final Design	June 2007	June 2007
Flushing Bay	Mechanical Structures	Construction Completion	December 2004	May 2007

**Table 2 – Milestones to be Modified**

LOCATION / PROJECT AREA	ITEM DESCRIPTION	ACTION REQUIRED	REASON FOR POSTPONMENT
Paerdegat Basin	Foundations and Substructures	Construction Completion	Request for Modification to Order
Jamaica Tributaries	Expansion of Wet Weather Capacity of Jamaica WPCP	Initiate Design	Request for Modification to Order
Jamaica Tributaries	Destratification Facility	Final Design Completion Including CPM Analysis	Siting Issues

As stipulated by the Order, DEP and DEC held a Quarterly Progress Meeting on May 10, 2007. The meeting was held at the Wards Island WPCP in New York, NY to discuss issues related to the Order and review milestones met during the last quarter.

DEP continued to make progress in the planning, design and construction of its CSO facilities during this quarter, as documented in this report.

**Major Actions Next Quarter:**

The following major actions are expected to occur between July 2007 and September 2007:

- ◆ Hold the next Quarterly Progress Meeting between DEC and DEP on August 9, 2007.
- ◆ Finalize negotiations on modifications to Consent Order milestones in **Table 2**.
- ◆ Submit written notification to DEC on the following upcoming milestones:

**Table 3 – Milestones to be Met Next Quarter (July 2007 - September 2007)**

<b>LOCATION/ PROJECT AREA</b>	<b>ITEM DESCRIPTION</b>	<b>ACTION REQUIRED</b>	<b>DATE TO BE SUBMITTED</b>
Coney Island Creek	Avenue V Force Main	Notice to Proceed to Construction	July 2007
Inner Harbor	In-Line Storage	Notice to Proceed to Construction	August 2007
Jamaica Tributaries	Destratification Facility	Notice to Proceed to Construction	August 2007
Coney Island Creek	LTCP Development	Submit Approvable LTCP	September 2007
Bronx River	Facility Plan Development	Submit Form 2A SPDES Application*	July 2007

\* DEC has indicated that a Form 2A application is not necessary for the planned floatables control facilities

## 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 4 – Construction Contracts and their Status**

<b>WATERBODY</b>	<b>ITEM DESCRIPTION</b>	<b>NOTICE TO PROCEED</b>	<b>CONSTRUCTION COMPLETION</b>	<b>PERCENTAGE OF TIME ELAPSED</b>	<b>PERCENTAGE OF CONSTRUCTION COMPLETED</b>
<b>Alley Creek</b>	Outfall and Sewer System Improvements	Dec 2002	Dec 2006	100%	100%
	CSO Retention Facility	Dec 2006	Dec 2009	17%	5%
<b>Outer Harbor</b>	Regulator Improvements - Fixed Orifices	Feb 2006	Jul 2008	55%	55%
	Regulator Improvements - Automation	Nov 2007	Jun 2010	-	-
	Port Richmond Throttling Facility	Jun 2006	Dec 2008	40%	15%
<b>Inner Harbor</b>	Regulator Improvements - Fixed Orifices	Feb 2003	Apr 2006	100%	100%
	Regulator Improvements - Automation	Nov 2007	Jun 2010	-	-
	In-Line Storage	Aug 2007	Aug 2010	-	-
<b>Paerdegat Basin</b>	Influent Channel	Feb 1999	Feb 2002	100%	100%
	Foundations and Substructures	Jun 2002	Dec 2006	100%	97%
	Structures and Equipment	Sep 2005	Aug 2011	30%	50%
<b>Flushing Bay</b>	Reroute and Construct Effluent Channel	Jun 1995	Jun 1996	100%	100%
	Relocate Ballfields	Apr 1995	Aug 1995	100%	100%
	Storage Tank	Jul 1997	Aug 2001	100%	100%
	Mechanical Structures	Mar 2002	Dec 2004	100%	100%
	Tide Gates	Dec 2000	Apr 2002	100%	100%

<b>WATERBODY</b>	<b>ITEM DESCRIPTION</b>	<b>NOTICE TO PROCEED</b>	<b>CONSTRUCTION COMPLETION</b>	<b>PERCENTAGE OF TIME ELAPSED</b>	<b>PERCENTAGE OF CONSTRUCTION COMPLETED</b>
	Manual Sluice Gates	Feb 2004	Jun 2005	100%	100%
<b>Jamaica Tributaries</b>	Meadowmere & Warnerville DWO Abatement	Mar 2006	Mar 2009	42%	30%
	Expansion of Wet Weather Capacity of Jamaica WPCP	Jun 2012	Jun 2015	-	-
	Destratification Facility	Aug 2007	Dec 2008	-	-
	Regulator Automation	Nov 2007	Jun 2010	-	-
<b>Coney Island Creek</b>	Avenue V Pumping Station Upgrade	Nov 2005	Apr 2011	29%	25%
	Avenue V Force Main	Jul 2007	Jun 2012	-	-
<b>Newtown Creek</b>	Aeration Zone I	Dec 2005	Dec 2008	50%	20%
	Aeration Zone II	Jun 2011	Jun 2014	-	-
	Relief Sewer / Regulator Modification	Jun 2010	Jun 2014	-	-
	Throttling Facility	Jun 2009	Dec 2012	-	-
	CSO Storage Facility	Dec 2015	Dec 2022	-	-
<b>Westchester Creek</b>	Phase I (Influent Sewers)	Jun 2011	Jun 2015	-	-
	CSO Storage Facility	Dec 2015	Dec 2022	-	-
<b>Bronx River</b>	Floatables Control	Jun 2009	Jun 2012	-	-
<b>Hutchinson River</b>	Phase I of the Storage Facility	Jun 2011	Jun 2015	-	-
	Future Phases	Dec 2016	Dec 2023	-	-
<b>Jamaica Bay</b>	Spring Creek AWPCP Upgrade	Mar 2003	Apr 2007	100%	100%
	26th Ward Drainage Area Sewer Cleaning and Evaluation	Jun 2008	Jun 2010	-	-
	Hendrix Creek Dredging	Jun 2008	Jun 2010	-	-
	26th Ward Wet Weather Expansion	Jun 2011	Dec 2015	-	-

\*Note, Percentage Construction Completion is sometimes tracked based on cost incurred

### 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 Water Pollution Control Plant (WPCP) 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 eliminate 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 WPCP 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

##### *Design*

- Alley Creek Drainage Area Improvements – Phase I, Stage 1, Contract ER-AC1
  - ◆ **Construction of Contract ER-AC1 continued. The principal work involved the construction of the roof openings in the CSO storage facility, construction of miscellaneous sluice gate and air intake/exhaust chambers, jacking of the pipes under Northern Boulevard, soil disposal, restoration within the rights-of-way of Cloverdale Boulevard and the Cross Island Parkway, construction of the foundation for the DOT cantilevered sign on Northern Boulevard for re-installation of the existing sign and installation of a larger sign in the future, construction of the Old**

**Douglaston Pumping Station force main and chambers, obtaining/renewing permits and approvals from regulatory/approval agencies, miscellaneous cleanup and restoration work, and punch list items.** Construction of Contract ER-AC1 is currently about **96** percent complete and 100 percent of the Order related work has been completed.

- ◆ **Implementation of the post-construction erosion monitoring plan entitled “Erosion Monitoring Plan, Alley Creek CSO Facility,” dated May 24, 2002 for Contract ER-AC1 continued. Approximately 90% of the baseline survey has been completed, including collection of the Alley Creek bathymetry and shoreline topography for both the project area and the control reference site. In addition, the vegetation and substrate observations were completed.**
- ◆ **In mid-June 2007, the NYSDEC issued a modification to the existing Joint Application for Permit for the work under Contract ER-AC1. This modification incorporates the work included in Contract Modifications Nos. 9, 12-16, 18 and 19 into the existing permit.**
- ◆ **On June 11, 2007, a conference call was held, between representatives of the DEP, NYSDEC and URS, to discuss revising the limits and depths of topsoil requirements north of Northern Boulevard under Contract ER-AC1. Based on this conference call, preparation of another modification to the existing Joint Application for Permit to revise the required topsoil limits and depths was initiated.**
- ◆ **An issues and tasks meeting and construction progress meeting were held on May 25, 2007 for Contract ER-AC1 at the Engineer’s field office.**
- **Alley Creek CSO Abatement Facilities – Phase I, Stage 2, Contract ER-AC2**
  - ◆ **Construction phase activities continued for Contract ER-AC2. The principal activities included submittal of initial shop drawings by Carp Construction Corporation (Carp) to allow on-site construction to be initiated, obtaining permits and approvals from regulatory/approval agencies, and general mobilization work by Carp.**
  - ◆ **The public comment period expired on April 9, 2007 for the Notice of Complete Application for the Joint Application for Permit for the work located south of Northern Boulevard under Contract ER-AC2.**
  - ◆ **In late April 2007, the NYSDOS notified DEP that the Federal Consistency Assessment Form and Consistency Certification with supporting information for Contract ER-AC2 meets the NYSDOS’ general consistency criteria and that further review by the NYSDOS is not required.**
  - ◆ **In early May 2007, the NYSDEC issued the Joint Application for permit for the work located south of Northern Boulevard under Contract ER-AC2, with a modification to the permit subsequently issued in mid-May 2007.**
  - ◆ **In late June 2007, the NYSDEC issued the Joint Application for Permit for the work located north of Northern Boulevard under Contract ER-AC2.**

- ◆ **In early June 2007, Applications for Approval of Backflow Prevention Devices to be installed under Contract ER-AC2 were prepared. Two backflow prevention devices are to be installed; one unit will be installed to serve the Old Douglaston Pumping Station, and the second unit will be installed to serve the CSO Retention Facility. These applications are for review and approval of the DEP Cross-Connection Unit.**
- ◆ **In mid-June 2007, the NOI for the SWPPP, along with a description of work, for Contract ER-AC2 were submitted to the NYSDEC for review and approval. In late June 2007, the NYSDEC advised DEP that the NOI had been reviewed, and on-site work included under Contract ER-AC2 was authorized to proceed on June 28, 2007.**
- ◆ **In late June 2007, the DPR issued the permit to Carp to perform work under Contract ER-AC2 on DPR property.**
- ◆ **Modification No. 2 to Contract ER-AC2 was prepared to provide a temporary nursery for use by the DPR during the construction phase of the contract.**
- ◆ **Issues and tasks meetings for Contract ER-AC2 were held on April 20, 2007 and May 25, 2007 at the Engineer's field office for Contract ER-AC1, and a construction progress meeting for Contract ER-AC2 was held on May 25, 2007 at the same location.**

#### Missed Milestones

- ◆ There are no missed milestones.

#### Anticipated Activities for Next Quarter

- Alley Creek Drainage Area Improvements – Phase I, Stage 1, Contract ER-AC1
  - ◆ **Construction of Contract ER-AC1 will continue. The principal work will include soil disposal, restoration within the rights-of-way of Cloverdale Boulevard and the Cross Island Parkway, construction of the foundation for the DOT cantilevered sign on Northern Boulevard and re-installation of the existing sign, construction of the Old Douglaston Pumping Station force main and chambers, miscellaneous cleanup and restoration work, and punch list activities.**
  - ◆ **Modification to the existing Joint Application for Permit will be prepared to revise the required topsoil limits and depths.**
  - ◆ **Implementation of the post-construction erosion monitoring plan will continue.**
  - ◆ **Construction progress meetings and issues and tasks meetings will be held at the Engineer's field office.**
  - ◆ **Substantial completion of Contract ER-AC1 is scheduled for August 2007.**
- Alley Creek CSO Abatement Facilities – Phase I, Stage 2, Contract ER-AC2



- ◆ **Construction of Contract ER-AC2 will continue. The principal work will include providing the Engineer’s field office, construction of the Interim Pumping Station, soil sampling and characterization, construction of a water main and chambers, construction of the sampling chamber, obtaining permits and approvals from regulatory/approval agencies, submittal of shop drawings and miscellaneous on-site startup work.**
- ◆ **The U.S. Army Corps of Engineers and DEC will issue their respective permits and approvals.**
- ◆ **Modification No. 2 will be incorporated into Contract ER-AC2 to provide a temporary nursery for use by the DPR during the construction phase of the contract.**
- ◆ **Construction progress meetings and issues and tasks meetings will be held at the Engineer’s field office.**

**Table 5 – Alley Creek CSO Project**

	<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 watermains, 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 1.51-acre area surrounding CSO Outfall TI-008
Cost:	<b>\$97,139,240</b>	\$29,929,929
Status:	Under construction by Carp Construction Corporation, 100% complete with CSO Order related construction, <b>96%</b> complete with all construction activities.	Under construction by Carp Construction Corporation, 5% complete with construction activities

### 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 sewerage area) Water Pollution Control Plants (WPCPs) 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, 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.

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 WPCP. The Citywide SCADA Project will automate regulators in Outer Harbor.

#### Work Performed During This Quarter

##### *Design*

- Regulator Automation
  - ◆ **Based on the bids received in March, DEP is working toward awarding the regulator automation contract to the apparent low bidder.**

##### *Construction*

- Phase I Regulator Improvements
  - ◆ Continued shop drawing reviews and RFI responses. **Contractor (Delaney) is waiting for delivery of slide gates from Fontaine Corp. in order to initiate final stages of construction.**
  - ◆ Monthly construction progress meetings were held.
- Phase II Throttling Facility
  - ◆ Continued shop drawing reviews and RFI responses. **After numerous alternative method submissions by the contractor (Angelakis Construction Corp.), the shoring method for main excavation pit has been finalized. They intend to use steel sheeting driven by vibratory hammer. This is a deviation from the contract documents which specified use of drilled soldier piles and lagging to construct the main excavation. The method will be accepted by the engineer and DEP following approval of (1) vibration/settlement monitoring, (2) dewatering, and (3) vibratory sheeting installation method & calculations submittal packages.**
  - ◆ Monthly construction progress meetings were held.

**Missed Milestones**

- ◆ There are no missed milestones.

**Anticipated Activities for Next Quarter**

*Construction*

- Phase I Regulator Improvements
  - ◆ Continue to address DSDC activities for the ongoing construction.
- Phase II Throttling Facility
  - ◆ Continue to address DSDC activities for the ongoing construction. **Contractor to begin main pit excavation activities.**

**Table 6 – Outer Harbor CSO Project**

	<i>Phase I</i>	<i>Phase II</i>	<i>Phase III</i>	<i>Citywide SCADA</i>
Plan Elements:	Regulator Improvements – Fixed Orifices	Throttling Facility	In-Line Storage	Regulator Improvements – Automation
Location:	32 regulator sites throughout Brooklyn and Staten Island	Port Richmond WPCP	Owls Head: OH-6C P. Richmond: PR-6W	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	Installation of two inflatable dams in the combined sewer system	Conversion to automated regulators
Construction Cost:	\$4,390,100	\$3,850,000	-	<b>\$2,842,000</b>
Status:	<b>Construction 55% complete.</b>	<b>Construction 15% complete.</b>	Eliminated due to hydraulic issues.	<b>Bids received and under analysis</b>
Other Issues:	-	-	DEC approved elimination of this phase of work in a letter dated October 28, 2005 (DiMura to Mueller) based on hydraulic analysis conducted by DEP.	-

### 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 Water Pollution Control Plants (WPCPs) 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) and Phase II (In-Line Storage). In addition, the automation of key regulators will be accomplished under the Citywide SCADA Project.

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.

#### Work Performed During This Quarter

##### *Design*

- In-line Storage
  - ◆ **Work continued on final design of Phase II – In-Line Storage. The revised EAS was sent to OEPA June 18, 2007. The Long Island Well permit is being revised, the dewatering discharge point was changed from the outfall to the combined sewer; a draft permit was sent to DEP for discharge to the sewer.**
  - ◆ **The request for additional funding to the NYC Office of Management and Budget was approved June 21, 2007. DEP is working toward meeting the Consent Order milestone date of August 31, 2007 for the Notice to Proceed.**
- Regulator Automation
  - ◆ **Based on the bids received in March, DEP is working toward awarding the regulator automation contract to the apparent low bidder.**

##### *Construction*

- 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 and the final inspection was completed by DEC. In a letter dated March 20, 2006, DEC certified compliance with the construction completion milestone.

#### Missed Milestones

- ◆ There are no missed milestones.

**Anticipated Activities for Next Quarter**

*Design*

- In-line Storage
  - ◆ **Continue work on the Long Island Well permit and the discharge permit to the sewer.**

*Construction*

- In-line Storage
  - ◆ **Issue a Notice to Proceed to Construction for the In-line Storage Facilities.**

**Table 7 – Inner Harbor CSO Project**

	<i>Phase I</i>	<i>Phase II</i>	<i>Citywide SCADA</i>
Plan Elements:	Regulator Improvements – Fixed Orifices	In-Line Storage	Regulator Improvements – Automation
Location:	72 regulator sites in Manhattan and Brooklyn	Upstream of regulators B-6 and R-20 in Brooklyn	Regulator sites in Manhattan and Brooklyn
Actions:	Conversion to fixed orifices	Installation of two inflatable dams in the combined sewer systems	Conversion to automated regulators
Construction Cost:	\$9,500,000	<b>\$11,200,000</b>	<b>\$13,737,000</b>
Status:	Construction Complete	<b>OMB approved additional funding request</b>	<b>Bids Received</b>
Other Issues:		<b>Contractor bids received on 3/21/07 exceeded the engineer’s estimate.</b>	

### **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 WPCP 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 WPCP 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*

- ◆ Submitted to DEC and EFC the Paerdegat Basin Drainage Specific LTCP report in November 2005, in compliance with the milestone date in the CSO Consent Order. Transmitted a response to DEC comments and revised LTCP on June 30, 2006.
- ◆ DEP approved the Paerdegat Basin LTCP in a letter dated February 1, 2007 (DiMura to Mueller).

##### *Design*

- Phase I A – Influent Channels
  - ◆ 100% complete
- Phase II – Foundations and Substructures
  - ◆ Underground CSO Tank design 100% complete.
- Phase III – Superstructures and Equipment
  - ◆ Construction of the facility buildings (Pump Back, Odor Control, Screenings Building and Collection Facilities South headquarters) design 100% complete.

##### *Construction*

- Phase I A – Influent Channels
  - ◆ Construction completed in 2002.
- Phase II – Foundations and Substructures
  - ◆ Construction work has continued and is approximately **97%** complete.

- ◆ **The 4B Contractor installed reinforcing steel dowels, concrete formwork and placed concrete for CSO Tank Nos. 2, 3 and 4 training walls, flush storage wall, and dividing walls. Installed, hydrostatically tested and concrete encased the 12-inch diameter flush water pipe for CSO Tank Nos. 2, 3 and 4. Formed and placed concrete for observation platforms in the CSO Tank Corridor. Performed corrective work for the Screenings Building influent channels and performed soil stabilization work for the Pump Back Building's Con Edison's transformer foundation slab. Delivered precast concrete removable planks for the Screenings Building. Applied sealant to the expansion joint on the roof of the CSO Tank and placed Bentonite waterproofing and ¾-inch blue stone on the roof of the CSO Tanks. Mandrilled electrical conduits for the instrumented tiedown anchors in the CSO Tanks.**
- ◆ **DEP has repeatedly requested and directed the contractor to furnish a revised CPM schedule reflecting the current status of the project, correct logic and duration for the remaining work to be performed because previous CPMs have been unacceptable to DEP.**
- ◆ **Due to contractual scheduling conflicts between Contract CSO-4B and Contract CSO-5G and to ensure Contract CSO-5G's Intermediate Milestone Dates and the August 2011 DEC Consent Order date are met, the transferal of specific mechanical and civil work to be performed contractually under Contract CSO-4B to Contract CSO-5G would be beneficial to the DEP. The DEP has evaluated various options and has determined that this approach is the most expeditious method of ensuring the earliest possible completion of these contracts and avoiding jeopardizing the 2011 milestone for Construction Completion.**
- **Phase III - Superstructures and Equipment**
  - ◆ **Construction work has continued and is approximately 50% complete.**
  - ◆ **The 5G Contractor continued to install masonry blocks and structural glazed face tile (SGFT), stainless steel structural batten seam roofing, soffit and fascia; continued to install wet and dry fire suppression systems; continued work activities for the Two (2) Barrel Influent Channel; continued installation of RCP piping on the CSO Tank Roof; continued work activities at the Paerdegat Basin mitigation site; continued installation of gypsum sheetrock system; windows, stainless steel and aluminum doors and frames in the CFS, PBB and OCB; began installation of black and white iron in the CFS**
  - ◆ **The 5E Contractor completed fabrication of bus bars and pulling and testing conductors from the MCC room. Pulled and terminated feeders from Con Edison manholes to Con Edison Transformers. Contractor continued installation of two low voltage switchgears in the PBB; continued installation of two (2) MCCs in the Pump Back and Odor Control Buildings; continued installation of conduit and conduit racks in the CSO Tank Corridor. Contractor also continued pulling and terminating conductors for fire alarm, lighting, telephone and intercom systems in the CFS.**

- ◆ **The 5H Contractor continued installation of concrete anchors, hanger rods, and stainless steel ductwork in Tank No. 3 and began installation of stainless steel ductwork in Tank No. 2; continued installation of stainless steel ductwork in the CSO Tank Corridor; continued installation of galvanized steel ductwork, HWS & HWR piping and insulation for piping and ductwork in the PBB and OCB; placed and began installation of hot water boilers in the OCB; continued installation of conduit for controls in the CFS. Contractor also began installation of various pieces of equipment in the PBB and OCB.**
- ◆ **The 5P Contractor continued installation of sanitary, storm drain and city water piping in the PBB and OCB; continued installation of water meters in the CFS and began installation of RPZ.**

### **Postponed Milestones**

- ◆ A written notice of a Request for Modification of a Milestone Date was submitted to DEC on October 31, 2006. NYCDEP requested modification to the current completion date of December 2006 as set forth in Appendix A, IV. Paerdegat Basin CSO, D. Foundations and Substructures, 4. Construction Completion to be modified to February 2008. This modification is based on the Contractor's poor performance and does not affect the final Construction Completion Milestone date of August 2011 under the subsequent phase, Structures and Equipment.
- ◆ DEC issued a Notice of Violation (NOV) on January 26, 2007 for a missed milestone set forth in Appendix A, IV. Paerdegat Basin CSO, D. Foundations and Substructures, 4. Construction Completion by December 2006. The NYC Law Department responded to the NOV in a letter dated February 22, 2007 (Plache to Crisafulli). **DEP and DEC Legal continued negotiations of modifying this milestone date.**

### **Anticipated Activities for Next Quarter**

#### *Construction*

- Phase II - Foundations and Substructures
  - ◆ Work will continue on the construction of to meet DEP's proposed revised Construction Completion date by February 2008. DEP and DEC Legal are negotiating the proposed revised milestone date.
  - ◆ **Upcoming future work will consist of completing the roof of the CSO Tanks; performing plugging and patching for the concrete formwork snap-tie holes throughout the CSO Tanks, Screenings Building influent channel and Pump Back Building. Also, continuing installation and testing of the instrumented tiedown anchors in the CSO Tanks and Pump Back Building; delivering remaining precast concrete removable planks and constructing observation platforms in the CSO Tank Corridor.**



- Phase III - Superstructures and Equipment
  - ◆ Work will continue on the construction of in order to meet the milestone date for Construction Completion Date by August 2011.
  - ◆ **The 5G Contractor will complete installation of masonry work, ceramic tiles and SGFT in the CFS and continue in the PBB, OCB and SB; complete installation of gypsum sheetrock system, windows, stainless steel and aluminum doors, black iron and white iron in the CFS; will complete installation of fire protection sprinkler system in the CFS; will complete Stainless Steel Structural Batten Seam Roofing on the CFS and continue on the PBB, OCB and SB; will complete painting of walls and piping in the CFS and continue in the PBB, OCB and SB; will continue installation of Service Water System in the PBB and OCB; will continue installation of bar screens and Rotork operators on the sluice and slide gates and perform tap for natural gas line. Contractor will also begin testing of various pieces of mechanical equipment in the CFS and perform training of DEP personnel.**
  - ◆ **The 5E Contractor will complete installation of conduit racks, conduit sleeves and RGS conduits in the CFS and continue in the PBB, OCB and SB; will continue installation of card reader junction boxes in the OCB; will pull conductors from the PBB and OCB MCC rooms to various pull boxes; will continue installation of electrical concrete duct banks over CSO Tanks. Contractor will also complete installation of electrical duct banks on the south side of the CFS, firestopping of penetrations in the CFS and installation of low voltage switchgears in the PBB. Contractor will also energize the PBB and complete testing of various pieces of electrical equipment and systems in the CFS**
  - ◆ **The 5H Contractor will continue to install stainless steel ductwork in the PBB, OCB, and CSO Tanks No. 1, No. 2, No. 3 and No. 4; will complete installation of HWS & HWR piping, insulation and fire stopping in the CFS and continue in the PBB, OCB, and SB. Contractor will also install various pieces of HVAC equipment in the CFS, PBB, OCB and SB; perform hydrostatic leak tests on piping in the CSO Tanks, CSO Tank Corridor, CFS, PBB, OCB and SB. Contractor will also complete testing of various pieces of HVAC equipment in the CFS.**
  - ◆ **The 5P Contractor will complete insulation of various piping and boot wash pans in the CFS and continue in the PBB; will continue installation of piping and hangers in the OCB; will continue installation of storm drain piping and hanger supports in lower level of PBB; complete installation of RPZ and complete installation of washers and dryers in the CFS.**

**Table 8 – Paerdegat Basin CSO Project**

	<i>Phase IA</i>	<i>Phase II</i>	<i>Phase III</i>
Construction Phase:	Influent Channels	Foundations and Substructures	Structures and Equipment
Location:	Flatlands and Ralph Avenues, Brooklyn, NY	West Shore of Paerdegat Basin	West Shore of Paerdegat Basin
Actions:	Construction of the influent channels to the CSO facility	Underground structural elements	Aboveground buildings and equipment
Cost:	\$9,000,000	<b>\$126,142,900</b>	<b>\$183,607,500</b>
Status:	Construction completed.	NTP issued on 6/24/02. Construction <b>97%</b> complete.	NTP issued on 9/26/05. Construction <b>50%</b> complete.
Other Issues:	-	Dredging of the mouth of the Basin postponed indefinitely due to Belt Pkwy Bridge damage. A written notice of a Request for Modification of a Milestone Date was submitted to DEC on October 31, 2006. NYCDEP requested modification to the current completion date of December 2006 as set forth in Appendix A, IV. Paerdegat Basin CSO, D. Foundations and Substructures, 4. Construction Completion to be modified to February 2008. This modification is based on the Contractor's poor performance and does not affect the final Construction Completion Milestone date of August 2011 under the subsequent phase, Structures and Equipment.	-

### 3.5. Flushing Bay CSO

The Flushing Bay CSO Retention Facility is an underground storage tank, which will have a storage capacity of 43 million gallons, 28 MG in the tank and 15 MG in the upstream sewers. The project is being constructed in phases to provide abatement in the Tallman Island WPCP 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

### Work Performed During This Quarter

#### *Construction*

- **DEP certified construction completion of the Flushing Bay CSO Retention Facility on May 31, 2007.**
- Site Work
  - ◆ **Continued site perimeter fencing and gates.**
  - ◆ **Completed bulkhead gate chamber for diversion of flow to the facility.**
- Comfort Stations
  - ◆ **Installation of fixtures.**
  - ◆ **Painted all surfaces.**
  - ◆ **Completed all electrical and HVAC systems**
- Recreation and Maintenance Building:
  - ◆ Continued the installation of sheetrock for walls.
  - ◆ **Completed Installation of Plumbing fixtures.**
  - ◆ **Installation of architectural finishes including flooring, wall coverings and ceilings.**
  - ◆ Continued the installation of doors.
  - ◆ Continued the installation of Elevator No. 3.
  - ◆ **Started Electrical and HVAC systems**

- Screening Building
  - ◆ **Started plant operations on May 17, 2007.**
  - ◆ Continued the installation of stainless steel handrails.
  - ◆ Continued equipment check-out, **start up and training**
- CSO Facility
  - ◆ **Started up facility operations on May 17, 2007.**
  - ◆ **Completed tie in of Existing CSO conduits to the Retention facility.**
  - ◆ **Completed** the installation of the heavy duty concrete topping on floor at El. -13.00 and El. -30.00.
  - ◆ Continued the installation of control and power cables to various field instruments.
  - ◆ **Completed all work on Odor control systems except instrumentation and controls**
  - ◆ Continued the installation of the sprinkler system piping and sprinkler head pressure testing.
  - ◆ Completed the installation of exterior lighting.
  - ◆ **Completed installation of gas monitoring systems**
  - ◆ **Continued checkout of various systems.**
- Regulator No. 9, Junction Chamber and Triple Barrel Outfall
  - ◆ **Continued instrumentation work. Installed flow monitoring devices and panels**

#### **Missed Milestones**

- ◆ A written notice of a “force majeure” event was submitted to DEC on September 24, 2004. This event has 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.

### **Anticipated Activities for Next Quarter**

- Site Work:
  - ◆ Complete the installation of wrought iron perimeter fencing.
- Comfort Station
  - ◆ **Turnover to NYCDPR**
- Recreation and Maintenance Building:
  - ◆ Paint all sheetrock walls.
  - ◆ Complete the installation of marlite paneling.
  - ◆ Complete epoxy resin flooring. Complete the installation of cabinetry.
  - ◆ Complete the installation of the sprinkler and fire alarm, telephone and building security systems.
  - ◆ Complete the installation of Elevator No. 3.
  - ◆ Complete the installation of the curvature ceiling.
  - ◆ Complete specialty flooring systems.
- Screening Building
  - ◆ Complete monorails.
  - ◆ Complete installation of handrailings.
  - ◆ **Complete public address system**
- CSO Facility
  - ◆ **Start up secondary pumps.**
  - ◆ **Complete Odor control system and start up.**
  - ◆ Continue the installation of control cables and perform terminations in control panels and at field instruments.
  - ◆ Continue start-up and vendor check-out of equipment.
- Regulator No. 9
  - ◆ Complete installation of instrumentation, flow sensors, RTU, power and control panels.
- Triple Barrel, Regulator No. 11, Chamber No. 2 and Junction Chamber
  - ◆ Install instrumentation.

**Table 9 – Flushing Bay CSO Project**

Plan Elements:	Flushing Bay CSO Retention Facility
Location:	Intersection of College Point Boulevard and Avery Avenue, Queens
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.
Cost:	\$291,000,000
Status:	Phase 2 construction started March 2002 and is on-going.
Other Issues:	<p>Damage to mechanical, HVAC and electrical equipment due to a major storm on September 8, 2004 which caused flooding in the facility and delays to construction.</p> <p>Contract change orders for additional work are in progress.</p> <p><b>Repair to Scrubber vessels due to non conformance by manufacturer has delayed treatment and completion.</b></p> <p><b>Change Order to signal and control of odor control system has delayed start up of the air treatment system and registration of the chemical storage tanks</b></p>

### **3.6. Jamaica Tributaries CSO**

The Jamaica Tributaries project area includes the Jamaica WPCP sewershed 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 WPCP. 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 WPCP – An additional 50 mgd of wet weather flow will be treated at the Jamaica WPCP to reduce the CSO discharges to Bergen Basin. Recent analyses indicate that this element has limited water quality benefits. Alternative actions are currently being analyzed in the waterbody/ watershed plan and will be submitted to DEC for discussion and review.
- ◆ 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 7 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 WPCP 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**

##### *Planning*

- Destratification Facility

- ◆ **ULURP application was submitted to NYCDCP on May 30, 2007 additional revised drawings were submitted June 18, 2007. The Restrictive Declaration was revised this quarter, waiting for signed drawings from the owner's architect to finalize package to NYCDCP.**
- Drainage Plan
  - ◆ BWSO and its consultant continued the preparation of a drainage plan for southeast Queens.

#### *Design*

- Regulator Automation
  - ◆ **Based on the bids received in March, DEP is working toward awarding the regulator automation contract to the apparent low bidder.**
- Destratification Facility
  - ◆ **Geotechnical and environmental borings completed.**
  - ◆ **Continued revisions to contract drawings and specifications.**
  - ◆ **Design progress meeting held with DEP in April, May and June 2007.**
- Expansion of Wet Weather Capacity of the Jamaica WPCP
  - ◆ **DEP has identified a more cost-effective alternative for CSO reduction that is documented in the Jamaica Bay and CSO Tributaries Waterbody/Watershed Plan, submitted to DEC on June 30, 2007.**

#### *Construction*

- Meadowmere/Warnerville
  - ◆ Continued DSDC activities for the Meadowmere & Warnerville project. Construction site meetings are now held monthly. **Construction is 30% complete.**
  - ◆ **Contractor has initiated pumping station foundation work and continued sewer work in the communities. MPT plan was officially revised through NYCDOT to allow for night work in the Warnerville community during the sewer installation in order to benefit the livelihood of surrounding businesses. A meeting was held on May 15 to discuss issues concerning soil sampling plan approval and classification of lab test results. Revised G-WM-1R (Nov. 2006) drawing was resent to NYSDEC for formal approval on June 19. DOB and DPR construction permits were secured.**

#### **Anticipated Activities for Next Quarter**

##### *Planning*

- Destratification Facility
  - ◆ **Final approval of Shellbank Basin Destratification Facility ULURP application by DCP.**

##### *Design*



- Destratification Facility
  - ◆ **Submit final design to DEP for review.**
  - ◆ **NYC Art Commission approval on Final Architectural Design of Destratification Facility.**

*Construction*

- Meadowmere/Warnerville
  - ◆ Continue DSDC activities for the continuing construction of the Meadowmere & Warnerville DWO abatement project.
- Destratification Facility
  - ◆ Continue revisions to Shellbank Basin Destratification Facility contract drawings and specifications.

**Table 10 – Jamaica Tributaries CSO Project**

Plan Elements:	Meadowmere & Warnerville DWO Abatement	Expansion of Wet Weather Capacity of Jamaica WPCP	Destratification	Laurelton and Springfield Blvd. Drainage Plan	Regulator Automation
Location:	Meadowmere and Warnerville – Queens, New York	Bergen Basin	Shellbank Basin	Jamaica WPCP 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 WPCP.	Conduct Demonstration Construct Permanent Facility	Develop drainage plan for storm sewer buildout	Provide automated regulators
Construction Cost:	\$30,648,888	\$120 million	<b>\$1,900,000</b>	To be determined	<b>\$1,421,000</b>
Status:	<b>Construction 30% complete.</b> DSDC activities continued.	Recent analyses indicate that this element has limited water quality benefits. <b>Alternative actions are recommended in the Waterbody/ Watershed Plan now under review by DEC.</b>	<b>ULURP certified and is under public review approval process.</b> <b>NTCP date of 8/2007 affected, new schedule drafted.</b> <b>Revising Final design documents to reflect new site location.</b>	Drainage planning underway.	<b>Bids received and under analysis</b>

### 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
  - ◆ **DEP continues the design of the US Army Corps of Engineers, Fort Hamilton pumping station.**
  - ◆ **DEP redesigned manhole Number 2 to work around the leak discovered in the existing wet well.**
- New Force Mains
  - ◆ **Additional funding request from OMB was approved. The construction contract is at the Comptroller's Office for registration.**
  - ◆ **A preconstruction meeting was held for the Force Main.**
  - ◆ **DEP is working toward meeting the Consent Order milestone date of July 2007 for the Notice to Proceed to Construction. Once the contract is registered with the Comptroller's Office, a Notice to Proceed to Construction will be issued.**

##### *Construction*

- Avenue V Pumping Station Upgrade
  - ◆ **The base slab is installed and pile installation has started.**
  - ◆ **The tie in piping for temporary pumping system has been installed.**
  - ◆ **The dewatering system has been increased to lower the water. A permit change has been requested.**
  - ◆ **Monthly Progress Meetings were held on the first Tuesday of each month.**

#### Missed Milestones

- ◆ There are no missed milestones.

**Anticipated Activities for Next Quarter**

*Construction*

- Avenue V Pumping Station Upgrade
  - ◆ **Completion of the construction of the wet well extension**
  - ◆ Implement a construction contingency plan for the leaking wet well.
- New Force Mains
  - ◆ **Issue a Notice to Proceed to Construction for the Force Main contract.**

**Table 11 – Coney Island Creek CSO Project**

	<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:	\$68,200,000	\$97,756,000
Status:	<b>Notice to Proceed issued on 12/16/05. Construction is 25% complete.</b>	Award proceedings have begun
Other Issues:	None	None

### 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 currently under development will analyze cost effective CSO control measures for this waterbody and potentially propose modifications to the scope of the existing CSO facilities plan, 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 instream 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 instream 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 WPCP.

#### Work Performed During This Quarter

##### *Planning*

- Off-line Storage Tank
  - ◆ The Bureau of Environmental Planning and Assessment (BEPA) continued their review of the Remedial Action Plan (RAP) and Health and Safety Plan (HASP) for the remedial work related to the CSO Storage Facility. BEPA completed their review of the revised CSO Storage Facility Environmental Assessment Statement (EAS) and the Air Modeling Report and has requested additional work, including a traffic waterbody/watershed analysis. **However, since the LTCP for Newtown Creek is due in June 2007, the DEP directed URS to postpone this analysis until the LTCP for Newtown Creek is submitted and reviewed.**

##### *Design*

- Maximize Flow to Morgan Ave. Interceptor
  - ◆ The Department reviewed proposals/presentations for Engineering Services for St. Nicholas Avenue Weir to Regulator B-1 Relief Sewer and have selected URS as the design consultant. **A draft contract has been prepared and is under Department Review. The Department gave notice to proceed to the CDM/URS JV Task Order contract to initiate design of the Regulator B-1 Modifications.**

- Phase 1 & 2 Aeration Facilities
  - ◆ **The Department reviewed proposals/presentations for Engineering Services for English Kills Aeration Zone II and have selected URS as the design consultant. URS submitted a draft Contract to the Department for their review.**

*Construction*

- Phase 1 Aeration Facilities
  - ◆ **The construction of the Phase I Aeration Facilities is 20 percent complete. During the quarter, pile work was completed.**
  - ◆ The NYSDEC Joint Permit had expired and a new permit application was submitted to the NYSDEC. Although previously approved, the DEC has revised its review and has determined that the apparent bulkhead is actually a relieving platform and therefore the land beneath the platform is considered wetlands. As a result, the DEC replied to the permit application with a Notice of Incomplete Application (NOIA). A response to the NOIA was prepared and submitted to the DEC on July 18, 2006. The State then issued a second NOIA and a response was prepared and submitted August 25, 2006, with a revised response submitted to the State September 7, 2006. The NYCDEP BEPA issued a modified Negative Declaration and the NYSDEC issued a Notice of Complete Application (NOCA) to the NYCDEP on October 18, 2006 for advertisement including a public comment period ending November 10, 2006. The NYSDEC then issued a Notice of Permit Issuance on November 22, 2006 with the effective dates of November 24, 2006 through December 31, 2009.
  - ◆ The NOPI contains Special Conditions, including submission of a Habitat Monitoring Plan and a Wetlands Restoration Plan within 30 days and 60 days of the permit's issuance, respectively.
  - ◆ A Habitat Monitoring Plan was submitted to the NYSDEC in January 2007 for their review. The NYSDEC reviewed and submitted comments to the Plan on March 20, 2007. **The NYSDEC's comments included requests for much more extensive sampling. The magnitude of the Plan recommended by the NYSDEC is far beyond the scope needed to satisfy the intent of the Permit Condition. A meeting with the NYSDEC, NYCDEP and URS was held on April 13, 2007 to discuss the NYSDEC comments. The Habitat Monitoring Plan was revised based upon discussions at this meeting and forwarded to the NYSDEC on June 27, 2007.**
  - ◆ A change order was issued for the bulkhead realignment. Change order negotiations have been completed with the NC-EK11G contractor for this work.
  - ◆ **Coordination between the Department's Bureaus continues for the site sewer connection. Design alternatives were prepared and are under Departmental review.**
  - ◆ **A Maintenance and Protection of Traffic (MPT) Plan was submitted to the New York City Department of Transportation for review and approval. The MPT Plan will be used for the installation of the sewers within Grand Street.**

- ◆ **Tracking of vendor approvals for equipment, shop drawing reviews and responses to the contractors' request for information continued for Contracts NC-EK11G, H and E.**
- Maximize Flow to Morgan Ave. Interceptor
  - ◆ Kent Avenue Throttling Facility design continued. It has been decided to include construction of this facility under Newtown Creek W.P.C.P. Upgrade Contract NC-36.

#### **Missed Milestones**

- ◆ There are no missed milestones.

#### **Anticipated Activities for Next Quarter**

##### *Construction*

- Maximize Flow to Morgan Ave. Interceptor
  - ◆ Continue design for Kent Avenue Throttling Gate.
- Phase 1 & 2 Aeration Facilities
  - ◆ Continue tracking vendor approval for equipment Contracts NC-EK11G, H and E. Continue shop drawing review for Contracts NC-EK11H and E. Continue responding to any Request for Information submitted by Contracts NC-EK11G, H and E.
  - ◆ Obtain approval for the NYCDEP site sewer connection permit.
  - ◆ Continue coordination with DEC for Habitat Monitoring Plan.
  - ◆ **Approval of the Maintenance and Protection of Traffic (MPT) Plan to the New York City Department of Transportation for review and approval.**
  - ◆ **Continue design of the Regulator B-1 Modifications.**
  - ◆ Continue procurement process for Engineering Services procurement for English Kills Aeration Zone II, and St. Nicholas Avenue Weir to Regulator B-1 Relief Sewer.

**Table 12 – Newtown Creek CSO Project**

Plan Elements:	Maximize flow through Morgan Ave. Interceptor	Phase 1&2 - Aeration Facilities	Off-line Storage Tank
Location:	Regulator B1 and WPCP throttling chamber	Head end of English Kills, south of Grand Street	Sewers tributary to CSO outfall discharging to English Kills
Actions:	Raise overflow weir in Regulator B1; increase sluice gate openings to interceptor; provide relief sewer from St. Nicholas weir to Regulator B1; provide throttling gate on Kent Avenue Interceptor.	Provide aeration of English Kills to raise DO concentrations to a minimum of 1.0 mg/l. The facility includes a landside compressor station and an air header and diffuser assembly on the Creek bottom.	Design of an off-line storage facility to control CSO discharge into English Kills. The facility would include the tank, a pumping station, and a new gravity drain to drain the tank for treatment at the Newtown Creek WPCP.
Cost:	\$10,000,000	\$56,000,000 (total for Zones I and II)	TBD
Status:	Facility plan elements for modifications to regulator and routing of the relief sewer have been completed. A Revised Final Facility Plan Report was submitted to the DEC. The final design of the throttling facility will be performed under the Newtown Creek WPCP upgrade contract. Regulator B1 Modifications are being performed under a Task Order Contract.	<b>Construction is 20% complete.</b> A Habitat Monitoring Plan was submitted to the NYSDEC for their review. Coordination between the Department's Bureaus continues for the site sewer connection. Aeration of Dutch Kills and East Branch will be performed under a new Contract NC-EK-IV.	A Draft ULURP application submitted to DEP. The RAP and HASP are under review by BEPA. BEPA submitted comments to the EAS and the Air Modeling Report. The Department directed URS to await the submission of the Newtown Creek LTCP prior to performing the additional work requested by BEPA.
Other Issues:	Requires coordination with WPCP planning and design requirements	NYCDEP site sewer permit is required. Approval of Habitat Monitoring Plan by NYSDEC is required.	Site approval (ULURP) and acquisition of property required. <b>As allowed by the Order, the current plan is subject to modifications by the Waterbody / Watershed Facility Plan.</b>

### **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 WPCP service area in the Borough of the Bronx. For this CSO planning area, the Waterbody / Watershed Facility Plan currently under development will analyze cost effective CSO control measures for this waterbody and potentially propose 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. In addition to the facilities required for abatement at CSO Outfall HP-014, the DEP has agreed to provide, as part of the project, amenities for use by the Bronxchester and Van Nest Little Leagues that utilize the baseball fields adjacent to the site of the proposed CSO storage tank on the Bronx Psychiatric Center (BPC) Campus. These amenities consist of restroom facilities, a clubhouse facility, a parking lot to be located on top of the CSO storage tank, and fencing to separate the Little League facilities from the BPC Campus facilities and the DEP facilities. This section reports on the progress of the Little League restroom facilities, and Phases I and II of the Westchester Creek CSO Abatement Facilities Plan.

The Little League restroom facilities will be constructed under a separate contract referred to as the Site Preparation Contract in advance of the Phase I contract. 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, construction of the Little League clubhouse facility and parking lot, and installation of the required fencing at the site.

#### **Work Performed During This Quarter**

##### *Planning*

- Site Acquisition at BPC Campus
  - ◆ Negotiations continued between New York City Department of City-Wide Administrative Services (DCAS) and the Dormitory Authority of the State of New York (DASNY) regarding acquisition of the site at the BPC Campus by the DEP for the CSO storage tank, and Little League restroom facilities and clubhouse facility.
  - ◆ A Job Hazard Analysis Form to perform the required surveying to prepare a metes and bounds description of a permanent easement along the access road into the BPC Campus from Waters Place remained under review by the DEP. This easement, which will be



from DASNY to the DEP, is needed to serve as an emergency access route onto the northeast section of the project site, and will be included as a stipulation in the Contract of Sale for the site.

- ◆ **In mid-June 2007, a brief chronological summary of the development of amenities for the Bronxchester and Van Nest Little Leagues included in the Westchester Creek CSO Abatement Project was prepared for internal review by the DEP.**

#### *Design*

- Site Preparation
  - ◆ Work to prepare the Site Preparation Contract for re-bidding remained on hold until the site at the BPC Campus is acquired by the DEP.
- Phase I – Influent Sewers
  - ◆ Design of the diversion chamber, supply/storage conduit and rehabilitation of the tide gate chamber continued.
- Phase II – CSO Storage Facility
  - ◆ Design of the CSO storage tank and Little League clubhouse facility continued.

#### *Construction*

- ◆ Construction has not yet been initiated.

#### **Missed Milestones**

- ◆ There are no missed milestones.

#### **Anticipated Activities for Next Quarter**

- Site Acquisition at BPC Campus
  - ◆ Site acquisition negotiations between DCAS and DASNY will continue.
  - ◆ The surveying will be performed and the metes and bounds description will be prepared for the permanent easement along the access road into the BPC Campus from Waters Place.
- Phase I – Influent Sewers
  - ◆ Design of Phase I facilities will continue.
- Phase II – CSO Storage Facility
  - ◆ Design of Phase II facilities will continue.

**Table 13 – Westchester Creek CSO Project**

<b>Plan Elements:</b>	Westchester Creek CSO Supply/Storage Conduit, CSO Storage Tank and Little League Amenities
<b>Location:</b>	Bronx Psychiatric Center Campus, and along Eastchester Road and Waters Place in the Bronx
<b>Actions:</b>	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; design and construction of amenities for the Bronxchester and Van Nest Little Leagues
<b>Cost:</b>	Under Revision
<b>Status:</b>	Negative Declaration issued for project; ULURP Application approved; design underway for CSO supply/storage conduit, CSO storage tank and clubhouse facility for Little Leagues; design complete for restroom facilities for Little Leagues
<b>Other Issues:</b>	Site needs to be acquired by DEP from the State of New York; licensing agreement between DEP and the Little Leagues needs to be finalized; NYC Building Permit Application, as well as other permit applications, need to be processed for restroom facilities for Little Leagues. As allowed by the Order, the current plan is subject to modifications by the Waterbody/Watershed Facility Plan

### 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 WPCP 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 "COPA" 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

##### *Planning*

- ◆ **The draft ULURP Application for the floatables control facilities was reviewed, and revisions were initiated in late June 2007 to the Application to address comments.**
- ◆ **The draft EAS for the floatables control facilities remained under review by the DEP.**

##### *Design*

- ◆ Design of the floatables control facilities continued.
- ◆ The draft Geotechnical Investigation Report for the floatables control facilities, based on the geotechnical borings drilled at the project sites, remained under review.
- ◆ **In early May 2007, conceptual approval was received from the NYSDOT to construct the floatables control facilities for Outfall HP-004 on land under the jurisdiction of the NYSDOT.**
- ◆ **On May 30, 2007, a meeting was held at the DEP offices, between representatives of the DEP and URS, to discuss the Bronx River Floatables Control Facilities, with emphasis on those facilities located on lands under the jurisdiction of the DPR. The principal purpose of this meeting was to familiarize the DEP – Legal Department with the project to allow the Legal Department to initiate contact with the DPR regarding the proposed floatables control facilities at CSO Outfalls HP-007 and HP-009.**

*Construction*

- ◆ Construction has not yet been initiated.

**Missed Milestones**

- ◆ There are no missed milestones.

**Anticipated Activities for Next Quarter**

- *Planning*
  - ◆ **A meeting will be scheduled with the DCP to review the draft ULURP Application for the floatables control facilities.**
  - ◆ The draft EAS for the floatables control facilities will be reviewed by the DEP.
- *Design*
  - ◆ Design of the floatables control facilities will continue; the drawings and specifications will be completed to the 60% level.
  - ◆ Review of the draft Geotechnical Investigation Report for the floatables control facilities sites will be completed.
  - ◆ **DEP – Legal Department will initiate contact with the DPR regarding the proposed floatables control facilities at CSO Outfalls HP-007 and HP-009.**

**Table 14 – 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:	<b>\$23,219,000</b>
Status:	Draft EAS for floatables control facilities under review; draft ULURP Application for floatables control facilities being <b>revised</b> ; design of floatables control facilities underway
Other Issues:	EAS for floatables control facilities needs to be completed, approved and Negative Declaration issued; ULURP Application for floatables control facilities needs to be finalized, certified and approved

### **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 WPCP 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 233<sup>rd</sup> Street, serves a drainage area of approximately 1,100 acres. For this CSO planning area, the Waterbody/Watershed Facility Plan currently under development will analyze cost effective CSO control measures for this waterbody and potentially propose 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.

#### **Work Performed During This Quarter**

##### *Design*

- Phase I – 4 MG CSO Storage Tank
  - ◆ Design of the 4 MG CSO storage tank continued.
  - ◆ Review of the draft Geotechnical Investigation Report presenting the results of the geotechnical borings drilled at the storage tank site continued.
  - ◆ Review of the report presenting the results of the laboratory analyses of the samples collected from the environmental borings drilled at the storage tank site continued.
- Phase II – 3 MG CSO Storage Tank
  - ◆ Design of the 3 MG CSO storage tank continued.
  - ◆ Review of the draft Geotechnical Investigation Report presenting the results of the geotechnical borings drilled at the storage tank site continued.
  - ◆ Review of the report presenting the results of the laboratory analyses of the samples collected from the environmental borings drilled at the storage tank site continued.

*Construction*

- ◆ Construction has not yet been initiated.

**Missed Milestones**

- ◆ There are no missed milestones.

**Anticipated Activities for Next Quarter**

- Phase I – 4 MG CSO Storage Tank
  - ◆ Design of Phase I facilities will continue.
  - ◆ Review of the Geotechnical Investigation Report will be completed.
  - ◆ The report presenting the results of the laboratory analyses of the samples collected from the environmental borings drilled at the storage tank site will be finalized.
- Phase II – 3 MG CSO Storage Tank
  - ◆ Design of Phase II facilities will continue.
  - ◆ Review of the Geotechnical Investigation Report will be completed.
  - ◆ The report presenting the results of the laboratory analyses of the samples collected from the environmental borings drilled at the storage tank site will be finalized.

**Table 15 – Hutchinson River CSO Project**

Hutchinson River CSO Storage Facilities	
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:	Preparation of EAS and ULURP Application being coordinated with the CSO Long-Term Control Plan; design underway
Other Issues:	EAS needs to be prepared, approved and Negative Declaration issued; ULURP Application needs to be prepared, certified and approved; sites for CSO storage facilities need to be acquired. As allowed by the Order, the current plan is subject to modifications by the Waterbody/Watershed Facility Plan

### 3.12. Jamaica Bay CSO

The Jamaica Bay CSO Abatement Facility Plan addresses CSOs in the 26<sup>th</sup> Ward WPCP 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 26<sup>th</sup> Ward tributaries includes: Phase I includes cleaning of sewers in the 26<sup>th</sup> Ward drainage area and interim dredging of the head-end of Hendrix St Canal. Subsequent phases include development of waterbody/watershed plans for the 26<sup>th</sup> Ward tributaries under the Citywide Long Term Control Plan for CSO and expansion of the wet weather capacity of the 26<sup>th</sup> Ward WPCP by 50 mgd.

In addition to the facility plan recommendations, the existing Spring Creek Auxiliary WPCP is undergoing an upgrade. 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 four effluent sluice gates at the effluent end of the basins open, allowing flow to be discharged to Spring Creek.**

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

#### Work Performed During This Quarter

##### *Design*

- Cleaning of Certain Combined Sewers
  - ◆ **For the 26<sup>th</sup> Ward Drainage Area Sewer Cleaning and Evaluation project, contract documents including design drawings, technical specifications and project schedule were completed in accordance with Consent Order Milestones and submitted to the NYSDEC.**
  - ◆ **Solicitation for Bids was advertised June 25, 2007.**
- Dredging
  - ◆ **For the Interim Dredging of CSO Sediments from the Hendrix Street Canal, contract documents including design drawings, technical specifications, and project schedule were completed and submitted to the NYSDEC in accordance with the Consent Order Milestone. Additionally, a meeting was held with the US Army Corps of Engineers at which time the project was discussed and the Joint Permit Application submitted. The Joint Permit Application was also submitted to the NYSDEC for this project.**
- Expansion of 26<sup>th</sup> Ward WPCP Capacity

- ◆ **Design work for the 50 mgd increase in wet weather capacity continued..**

*Construction*

- Spring Creek Upgrade
  - ◆ **Construction activities continued at the Spring Creek Auxiliary WPCP upgrade. The odor control system, generator, boilers, and disinfection system have all been started up and the certification of construction completion was sent to the NYSDEC meeting the April 30<sup>th</sup> milestone. All basins are operational. Miscellaneous contract work and punch list work is ongoing.**
  - ◆ **Submitted the WWOP and Interim Post Construction Compliance Monitoring Protocol to the DEC.**

**Missed Milestones**

- ◆ There are no missed milestones.

**Anticipated Activities for Next Quarter**

- Dredging
  - ◆ **Respond to inquiries from the USACE/NYSDEC associated with Joint Permit Application, as necessary.**
- Cleaning of Certain Combined Sewers
  - ◆ **Pre-bid conference scheduled for July 9, 2007.**
  - ◆ **Bid opening scheduled for July 17, 2007.**
- Spring Creek Upgrade
  - ◆ **The Contractor is targeting the completion of the scavenger waste station.**
  - ◆ **The electrical contractor is work to complete the security system and control permanent control room.**
  - ◆ **The Final grading and landscaping on the east side of the plant is to be completed.**
  - ◆ **Installation of the walkways on the basin roofs is to be completed.**
  - ◆ **The investigation into the barrel leak in April 2007 will continue depending on flow in the system and forecasted rain events.**



**Table 16 – Jamaica Bay CSO Project**

Plan Elements:	Dredging	Cleaning of Certain Combined Sewers	Expansion of 26 <sup>th</sup> Ward WPCP Capacity	Spring Creek Upgrade
Location:	Phase I- Interim dredging of Hendrix Street Canal	Phase I-Portions of sewers in Williams, Hegeman and Flatlands Avenues	Phase IV- 26 <sup>th</sup> Ward WPCP, Brooklyn	Spring Creek, Brooklyn
Actions:	Contract documents for interim dredging currently being prepared	Contract documents complete	Increase wet weather capacity by 50 mgd	Upgrade of existing CSO facility
Project Cost:	\$15 million	\$4 million	Estimate Construction Costs: <ul style="list-style-type: none"> <li>▪ 26W- 13: \$26 million</li> <li>▪ 26W-20: \$232 million<sup>1</sup></li> <li>▪ 26W-22: \$424 million<sup>1</sup></li> <li>▪ 26W-23: \$58 million<sup>1</sup></li> <li>▪ 26W-24: TBD</li> </ul> <sup>1</sup> Conceptual estimate	\$87 million
Status:	On Schedule.	On Schedule	Final Design Initiated	<b>Under construction – 100% complete</b>
Other Issues:	-	-	-	-

### 3.13. Citywide Comprehensive Floatables Plan

#### Work Performed During This Quarter

- ◆ During the **second** quarter of 2007, data collection tasks for the pilot floatables monitoring program continued, as did data analysis related to the **three** site-specific investigations conducted in late February **and April**. **Monitoring data collected by the Harbor Water Quality Survey crews during the reporting period was also incorporated into the program database.**
- ◆ The **second and third** rounds of site-specific investigations for the three pilot program sites with the most persistent poor ratings (head of Dutch Kills, inlet east of Whale Creek on Newtown Creek, and Kill Van Kull off of Van Name Avenue) were conducted in **early and late April**. The investigations included database reviews, literature reviews, and field observations. The purpose of the ongoing investigations is to characterize site conditions that may contribute to floatables and characterize the floatables and non-CSO debris present at the sites in order to gain insight as to the sources of debris.
- ◆ **The New York City Beach Floatables Survey Program (Survey Program), a volunteer group that has been performing counts of beach floatables for several years, was approached during the last reporting period as a public participation group to conduct monitoring. Coordination with the Survey Program occurred during the second quarter of 2007, and volunteer training and data collection was initiated in June.**
- ◆ A brief description of the pilot program progress to date and the preliminary data analyses were included in the CSO BMP Annual Report submitted to the NYSDEC on April 1, 2007. Detailed backup documentation was also sent to the NYSDEC under separate cover on that date.
- ◆ **As part of the CSO LTCP project, Waterbody/Watershed reports have incorporated general language describing the floatables monitoring program and the likely inclusion of floatables monitoring as part of the post construction monitoring program for relevant LTCP waterbodies.**
- ◆ Overall, the pilot program has met all scheduled completion dates and is on target to further develop and refine monitoring, investigation, and data management procedures through the **summer** of 2007.

#### Missed Milestones

- ◆ There are no missed milestones.

#### Anticipated Activities for Next Quarter

- ◆ Continue pilot floatables monitoring program activities, **including internal program evaluation/adjustment, monitoring by the Harbor Water Quality Survey, and**

**monitoring by the public participation group (New York City Beach Floatables Survey Program).**

- ◆ **Complete site-specific investigation protocols and data analysis and conduct additional field visits, as necessary, for the same three sites observed in February and April.**
- ◆ **Initiate planning for the transition of the pilot program to a full scale program.**

## 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 draft Consent Order and updates available through September 2006:

**Table 17 – Consent Order Milestone Dates**

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
<b>I. Alley Creek CSO</b>			
<b>A. Facility Plan Development</b>			
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	-	June 2003	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Alley Creek Waterbody / Watershed Facility Plan Report	-	June 2007	100
2. Submit Approvable East River Waterbody / Watershed Facility Plan Report	-	June 2007	100
<b>C. Outfall and Sewer System Improvements</b>			
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
<b>D. CSO Retention Facility</b>			
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	5

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
<b>E. Drainage Basin Specific LTCPs</b>			
1. Submit Approvable Drainage Basin Specific LTCP for Alley Creek	-	6 mos. after approval of I.B.1.	50
2. Submit Approvable Drainage Basin Specific LTCP for East River	-	6 mos. after approval of I.B.2.	50
<b>II. Outer Harbor CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Additional Modified Facility Plan Report	-	Feb. 2004	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Open Waters Waterbody / Watershed Facility Plan Report	-	June 2007	100
<b>C. Regulator Improvements - Fixed Orifices</b>			
1. Initiate Final Design	Jan. 2004	-	100
2. Final Design Completion Including CPM Analysis	-	April 2005	100
3. Notice to Proceed to Construction	Feb. 2006	-	100
4. Construction Completion	-	July 2008	55
<b>D. Regulator Improvements – Automation</b>			
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	-	-
4. Construction Completion	-	June 2010	-
<b>E. Port Richmond Throttling Facility</b>			
1. Initiate Final Design	June 2004	-	100
2. Final Design Completion Including CPM Analysis	-	Aug. 2005	100
3. Notice to Proceed to Construction	June 2006	-	100
4. Construction Completion	-	Dec. 2008	15
<b>F. In-Line Storage</b>			
1. Initiate Final Design	July 2005	-	N/A
2. Final Design Completion Including CPM Analysis	-	Nov. 2006	N/A

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
3. Notice to Proceed to Construction	Aug. 2007	-	N/A
4. Construction Completion	-	Aug. 2010	N/A
G. Submit Approvable Drainage Basin Specific LTCP for Open Waters	-	Jan. 2008	50
<b>III. Inner Harbor CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Additional Modified Facility Plan Report	-	Feb. 2004	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Gowanus Canal Waterbody / Watershed Facility Plan Report	-	June 2007	100
<b>C. Regulator Improvements - Fixed Orifices</b>			
1. Initiate Final Design	Mar. 2000	-	100
2. Final Design Completion Including CPM Analysis	-	Sept. 2002	100
3. Notice to Proceed to Construction	Feb. 2003	-	100
4. Construction Completion	-	Apr. 2006	100
<b>D. Regulator Improvements – Automation</b>			
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	-	-
4. Construction Completion	-	June 2010	-
<b>E. In-Line Storage</b>			
1. Initiate Final Design	July 2005	-	100
2. Final Design Completion Including CPM Analysis	-	Nov. 2006	100
3. Notice to Proceed to Construction	Aug. 2007	-	-
4. Construction Completion	-	Aug. 2010	-
F. Submit Approvable Drainage Basin Specific LTCP for Gowanus Canal	-	Jan. 2008	50
<b>IV. Paerdegat Basin CSO</b>			
<b>A. Facility Plan Development</b>			
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
3. Submit Form 2A SPDES Application	-	July 2002	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Paerdegat Basin Waterbody / Watershed Facility Plan Report	-	Mar. 2003	100
<b>C. Influent Channel</b>			
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
<b>D. Foundations and Substructures</b>			
1. Initiate Final Design	Oct. 1994	-	100
2. Final Design Completion Including CPM Analysis	-	Aug. 2001	100
3. Notice to Proceed to Construction	June 2002	-	100
4. Construction Completion	-	Dec. 2006	97
<b>E. Structures and Equipment</b>			
1. Initiate Final Design	Oct. 1994	-	100
2. Final Design Completion Including CPM Analysis	-	Nov. 2004	100
3. Notice to Proceed to Construction	Sept. 2005	-	100
4. Construction Completion	-	Aug. 2011	50
F. Submit Approvable Drainage Basin Specific LTCP for Paerdegat Basin	-	Nov. 2005	100
<b>V. Flushing Bay CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Additional Modified Facility Plan Report	-	Feb. 2004	100
3. Submit Form 2A SPDES Application	-	June 2003	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Flushing Bay Waterbody / Watershed Facility Plan Report	-	June 2007	100
2. Submit Approvable Flushing Creek Waterbody /	-	June 2007	100

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
Watershed Facility Plan Report			
<b>C. CS4-1 Reroute and Construct Effluent Channel</b>			
1. Initiate Final Design	Oct. 1992	-	100
2. Final Design Completion Including CPM Analysis	-	Sept. 1994	100
3. Notice to Proceed to Construction	June 1995	-	100
4. Construction Completion	-	June 1996	100
<b>D. CS4-2 Relocate Ballfields</b>			
1. Initiate Final Design	Oct. 1992	-	100
2. Final Design Completion Including CPM Analysis	-	Sept. 1994	100
3. Notice to Proceed to Construction	Apr. 1995	-	100
4. Construction Completion	-	Aug. 1995	100
<b>E. CS4-3 Storage Tank</b>			
1. Initiate Final Design	Dec. 1993	-	100
2. Final Design Completion Including CPM Analysis	-	Sept. 1996	100
3. Notice to Proceed to Construction	July 1997	-	100
4. Construction Completion	-	Aug. 2001	100
<b>F. CS4-4 Mechanical Structures - Initiate Final Design</b>			
1. Initiate Final Design	Dec. 1993	-	100
2. Final Design Completion Including CPM Analysis	-	Feb. 2000	100
3. Notice to Proceed to Construction	Mar. 2002	-	100
4. Construction Completion	-	Dec. 2004	100
<b>G. CS4-5 Tide Gates</b>			
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
<b>H. CD-8 Manual Sluice Gates</b>			
1. Final Design Completion Including CPM Analysis	-	May 2003	100
2. Notice to Proceed to Construction	Feb. 2004	-	100
3. Construction Completion	-	June 2005	100



ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
<b>I. Drainage Basin Specific LTCPs</b>			
1. Submit Approvable Drainage Basin Specific LTCP for Flushing Bay	-	6 mos. after apprvl. of V.B.1.	50
2. Submit Approvable Drainage Basin Specific LTCP for Flushing Creek	-	6 mos. after apprvl. of V.B.2.	50
<b>VI. Jamaica Tributaries CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	April 2003	100
2. Submit Additional Modified Facility Plan Report	-	Feb. 2004	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Bergen Basin Waterbody / Watershed Facility Plan Report	-	June 2007	100
2. Submit Approvable Thurston Basin Waterbody / Watershed Facility Plan Report	-	June 2007	100
<b>C. Meadowmere &amp; Warnerville DWO Abatement</b>			
1. Initiate Final Design	Jan. 2004	-	100
2. Final Design Completion Including CPM Analysis	-	May 2005	100
3. Notice to Proceed to Construction	Mar. 2006	-	100
4. Construction Completion	-	Mar. 2009	30
<b>D. Expansion of Wet Weather Capacity of Jamaica WPCP</b>			
1. Initiate final Design	June 2007	-	-
2. Submit Form 2A SPDES Application	-	June 2010	-
3. Final Design Completion Including CPM Analysis	-	June 2011	-
4. Notice to Proceed to Construction	June 2012	-	-
5. Construction Completion	-	June 2015	-
<b>E. Destratification Facility</b>			
1. Initiate Final Design	Jan. 2006	-	100
2. Final Design Completion Including CPM Analysis	-	Oct. 2006	90
3. Notice to Proceed to Construction	Aug. 2007	-	-
4. Construction Completion	-	Dec. 2008	-

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
<b>F. Laurelton and Springfield Blvd.</b>			
1. Submit Drainage Plan for Storm Sewer Buildout	-	Jan. 2008	75
<b>G. Regulator Automation</b>			
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	-	-
4. Construction Completion	-	June 2010	-
<b>H. Drainage Basin Specific LTCPs</b>			
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
<b>VII. Coney Island Creek CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Apr. 2003	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Coney Island Creek Waterbody / Watershed Facility Plan Report	-	June 2007	100
<b>C. Avenue V Pumping Station Upgrade</b>			
1. Initiate Final Design	April 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	25
<b>D. Avenue V Force Main</b>			
1. Initiate Final Design	Apr. 1998	-	100
2. Final Design Completion Including CPM Analysis	-	Sept. 2006	100
3. Notice to Proceed to Construction	July 2007	-	-
4. Construction Completion	-	June 2012	-
E. Submit Approvable Drainage Basin Specific LTCP for Coney Island Creek	-	Sept. 2007	50
<b>VIII. Newtown Creek CSO</b>			

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Oct. 2003	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Newtown Creek Waterbody / Watershed Facility Plan Report	-	June 2007	100
<b>C. Aeration Zone I</b>			
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	20
<b>D. Aeration Zone II</b>			
1. Initiate Final Design	June 2007	-	-
2. Final Design Completion Including CPM Analysis	-	June 2010	-
3. Notice to Proceed to Construction	June 2011	-	-
4. Construction Completion	-	June 2014	-
<b>E. Relief Sewer / Regulator Modification</b>			
1. Initiate Final Design	June 2007	-	-
2. Final Design Completion Including CPM Analysis	-	June 2009	-
3. Notice to Proceed to Construction	June 2010	-	-
4. Construction Completion	-	June 2014	-
<b>F. Throttling Facility</b>			
1. Initiate Final Design	Dec. 2005	-	100
2. Final Design Completion Including CPM Analysis	-	June 2008	-
3. Notice to Proceed to Construction	June 2009	-	-
4. Construction Completion	-	Dec. 2012	-
<b>G. CSO Storage Facility</b>			
1. Initiate Final Design	Nov. 2010	-	-
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	-	-

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
5. Construction Completion	-	Dec. 2022	-
H. Submit Approvable Drainage Basin Specific LTCP for Newtown Creek	-	Feb. 2016	50
<b>IX. Westchester Creek CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Apr. 2003	100
2. Submit Form 2A SPDES Application	-	June 2009	-
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Westchester Creek Waterbody / Watershed Facility Plan Report	July 2004	June 2007	100
<b>C. Phase I (Influent Sewers)</b>			
1. Initiate Final Design	Jan. 2004	-	100
2. Final Design Completion Including CPM Analysis	-	June 2010	20
3. Notice to Proceed to Construction	June 2011	-	-
4. Construction Completion	-	June 2015	-
<b>D. CSO Storage Facility</b>			
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
<b>X. Bronx River CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Sept. 2003	100
2. Submit Additional Modified Facility Plan Report	-	Mar. 2004	100
3. Submit Form 2A SPDES Application	-	July 2007	-
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Bronx River Waterbody / Watershed Facility Plan Report	-	June 2007	90
<b>C. Floatables Control</b>			
1. Initiate Final Design	Jan. 2006	-	100
2. Final Design Completion Including CPM Analysis	-	July 2008	50

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
3. Notice to Proceed to Construction	June 2009	-	-
4. Construction Completion	-	June 2012	-
D. Submit Approvable Drainage Basin Specific LTCP for Bronx River	-	Aug. 2009	50
<b>XI. Hutchinson River CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	July 2003	100
2. Submit Form 2A SPDES Application	-	June 2009	-
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Hutchinson River Waterbody / Watershed Facility Plan Report	-	June 2007	100
<b>C. Phase I of the Storage Facility</b>			
1. Initiate Final Design	Apr. 2005	-	100
2. Final Design Completion Including CPM Analysis	-	June 2010	10
3. Notice to Proceed to Construction	June 2011	-	-
4. Construction Completion	-	June 2015	-
<b>D. Future Phases</b>			
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
<b>XII. Jamaica Bay CSO</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Dec. 2003	100
<b>B. Comprehensive Watershed Planning</b>			
1. Submit Approvable Jamaica Bay Waterbody / Watershed Facility Plan Report	-	June 2007	100
2. Submit Approvable Spring Creek Waterbody / Watershed Facility Plan Report	-	June 2007	100
3. Submit Approvable Fresh Creek Waterbody / Watershed Facility Plan Report	-	June 2007	100
4. Submit Approvable Hendrix Creek Waterbody /	-	June 2007	100

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
Watershed Facility Plan Report			
<b>C. Spring Creek AWPCP Upgrade</b>			
1. Initiate Final Design	Apr. 1998	-	100
2. Final Design Completion Including CPM Analysis	-	Feb. 2002	100
3. Submit Form 2A SPDES Application	-	June 2003	100
4. Notice to Proceed to Construction	Mar. 2003	-	100
5. Construction Completion	-	April 2007	100
<b>D. 26th Ward Drainage Area Sewer Cleaning and Evaluation</b>			
1. Initiate Final Design	Jan 2007	-	100
2. Final Design Completion Including CPM Analysis	-	June 2007	100
3. Notice to Proceed to Construction	-	June 2008	-
4. Construction Completion	-	June 2010	-
<b>E. Hendrix Creek Dredging</b>			
1. Initiate Final Design	Jan 2007	-	100
2. Final Design Completion Including CPM Analysis	-	June 2007	100
3. Notice to Proceed to Construction	-	June 2008	-
4. Construction Completion	-	June 2010	-
<b>F. 26th Ward Wet Weather Expansion</b>			
1. Initiate Final Design	June 2006	-	100
2. Final Design Completion Including CPM Analysis	-	June 2010	10
3. Submit Form 2A SPDES Application	-	June 2009	-
4. Notice to Proceed to Construction	June 2011	-	-
5. Construction Completion	-	Dec. 2015	-
<b>G. Drainage Basin Specific Long Term Control Plans</b>			
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

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
<b>XIII. Citywide Comprehensive Floatables Plan</b>			
<b>A. Facility Plan Development</b>			
1. Submit Modified Facility Plan Report	-	Dec. 2004	100
<b>XIV. Submit Approvable City-Wide LTCP</b>			
	-	Dec 2017	-

## **5.0. Community Relations**

### **5.1. Activities During the Reporting Period**

**The eighth Open Water LTCP CSO CAC meeting was held May 16, 2007. During the meeting, the CAC members were:**

- ◆ **Updated on Tributary Stakeholder activities,**
- ◆ **Introduced to the NYC Street Tree Program**
- ◆ **Given a presentation on Low Impact Development / BMP Development**
- ◆ **Given a presentation on the CAC Reports, including, locations/sites needing floatable controls , Public access points and CSO overflows, and water resources monitoring opportunities and data**

**The ninth, and final, Open Water LTCP CSO CAC meeting was held June 13, 2007. During the meeting, the CAC members were:**

- ◆ **Presented with the East River-Open Water Waterbody/Watershed Facility Plan**

**Several Stakeholder Team meetings were held this quarter:**

- ◆ **The fourth, and final, Bronx River Stakeholder Team Meeting was held April 25, 2007.**
- ◆ **The third, and final, Westchester Creek and Hutchinson River Stakeholder Team Meeting was held May 8, 2007.**
- ◆ **The fourth, and final, Newtown Creek Stakeholder Team Meeting was held May 23, 2007.**
- ◆ **The fifth, and final, Flushing Bay and Creek Stakeholder Team Meeting was held June 6, 2007.**
- ◆ **The fourth, and final, Jamaica Bay Stakeholder Team Meeting was held June 7, 2007.**

**The public participation program was consistent with EPA's CSO Control Policy which requires public participation and input to the process.**

### **5.2. Activities Anticipated for Next Quarter**

- ◆ **There are no Waterbody Stakeholder Team Meetings or Open Water LTCP CSO CAC meetings scheduled for the next quarter. All meetings have been completed and no additional meetings are expected.**



## **6.0. Key Personnel Changes**

As of June 22, 2007, Alfonso Lopez, Deputy Commissioner, has retired.

## 7.0. Other Issues

As identified in the report, the following issues may materially affect the work required by this Order:

### 1. Paerdegat Basin CSO

DEP submitted a written request for modification of a milestone date related to the construction completion date of December 2006 as set forth in Appendix A, IV. Paerdegat Basin CSO, D. Foundations and Substructures, 4. The request was made 60 days prior to the milestone, as requested by the Order. The request was based on poor performance by the contractor and a new milestone date of February 2008 was proposed. **On January 2, 2007, DEC issued an NOV for this milestone. Negotiations between DEP and DEC Legal regarding a modification to this milestone continued.**

### 2. Jamaica Tributaries CSO

The property owner for the Destratification Facility refused to move forward on the site identified and would not co-sign the ULURP application or sell the site identified for the destratification facility. Negotiations continued with the owner on an alternative site identified on the same lot upon which to locate the facility. **A revised ULURP has been certified and is under public review. Final design contract documents are being prepared to reflect the new site.** This will lead to a delay in the bidding and construction of this work. **Negotiations between DEP and DEC Legal regarding a modification to this milestone continued.**

### 3. Jamaica Bay CSO

**DEP submitted the Jamaica Bay and CSO Tributaries Waterbody/Watershed Plan to DEC on June 30, 2007, as required by the Order. This report documents a more cost-effective CSO management strategy, as compared to the expansion of the wet weather capacity of the Jamaica WPCP. This alternative to treatment plant expansion relies on system improvements to maximize the use of the plant's 200 mgd wet weather capacity. Design of the expansion of the wet weather capacity has been delayed until DEC has reviewed and approved the alternate strategy being proposed.**

## **8.0. Status of LTCP Development**

According to the Order, the reporting on the progress of the Drainage Basin Specific LTCP 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. The Order specifies that the following elements shall be addressed: (1) Characterization, Monitoring, and Modeling of the Combined Sewer System; (2) Public Participation; (3) Consideration of Sensitive Areas; (4) Evaluation of Alternatives; (5) Cost/Performance Considerations; (6) Operational Plan; (7) Maximizing Treatment at the Existing WPCP Treatment Plant; (8) Implementation Schedule; and (9) Post Construction Compliance Monitoring.

As this is the progress report for the second quarter, an update will be provided, as required, in the next quarterly report.



**APPENDIX A**

**CONSENT ORDER CERTIFICATION LETTERS**





**DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION**

96-05 Horace Harding Expressway  
Corona, New York 11368

**Emily Lloyd  
Commissioner**

**Alfonso R. Lopez, P.E.  
Deputy Commissioner**

**Bureau of Engineering  
Design & Construction**

Tel. (718) 595-5050  
Fax (718) 595-5999  
alopez@dep.nyc.gov

November 3, 2006

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

**RE: Order on Consent (CSO Order)  
DEC Case # CO2-20000107-8  
Alley Creek and Little Neck Bay Waterbody/Watershed  
Facility Plan Report**

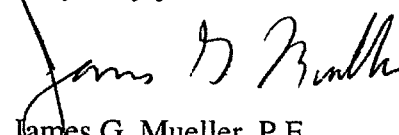
Dear Mr. DiMura:

In accordance with Section III of the above referenced proposed Consent Order for Combined Sewer Overflow (Order), this letter is to certify completion of the Alley Creek and Little Neck Bay Waterbody/Watershed Facility Plan Report by the New York City Department of Environmental Protection (DEP).

In accordance with Section III, paragraph A of the Order and the schedule of milestones set forth in Appendix A, III, B, 1 of the Order, this report is attached for your review.

Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

  
James G. Mueller, P.E.  
Director  
Facilities Planning and Design

JGM:jv  
Enclosure



Copy to:

Timothy Burns  
New York State Environmental Facilities Corporation  
625 Broadway  
Albany, NY 12207

Gary E. Kline, P.E.  
New York State Department of Environmental Conservation  
Division of Water  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3500

Robert Elburn, P.E.  
Regional Water Engineer  
Division of Water, Region 2  
New York State Department of Environmental Conservation  
47-40 21 Street  
Long Island City, NY 11101

Without attachment

Sandra Allen  
Director, Division of Water  
New York State Department of Environmental Conservation  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3500

Scott Crisafulli, Esq.  
Water Compliance Counsel  
New York State Department of Environmental Conservation  
Division of Environmental Enforcement  
625 Broadway, 14<sup>th</sup> Floor  
Albany, NY 12233-5500

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

DEP: with attachments

A. Spangel, M. Klein, S. Gibbons, K. Tong, M. Osit

without attachments

E. Rogak, G. Tang, J. Romano



NYC DEP CSO LTCP Project  
Waterbody/Watershed Joint Venture Distribution List

- Plan Leader
- Robert Smith, Project Director  
Hazen and Sawyer, P.C.  
498 Seventh Avenue  
New York, NY
- Peter Young, Project Manager  
Hazen and Sawyer, P.C.  
498 Seventh Avenue  
New York, NY
- William Leo, Deputy Project Direct  
HydroQual, Inc.  
1200 MacArthur Boulevard  
Mahwah, NJ 07430
- Joseph Grgin, Assistant to Project Director  
Greeley and Hansen LLC  
111 Broadway  
21<sup>st</sup> Floor  
New York, NY 10006-1900
- Darlene McKinney, Task Manager  
Greeley and Hansen LLC  
1818 Market Street  
Suite 3400  
Philadelphia, PA 19103-3613
- Lowell Kachalsky, Deputy Project Manager  
O'Brien & Gere Engineers, Inc.  
22 Saw Mill River Road  
3<sup>rd</sup> Floor  
Hawthorne, NY 10532





**DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION**

59-17 Junction Boulevard  
Flushing, New York 11373

**Emily Lloyd**  
Commissioner

Tel. (718) 595-6565  
Fax (718) 595-3525  
elloyd@dep.nyc.gov

**Steven W. Lawitts**  
First Deputy Commissioner

Tel. (718) 595-6576  
Fax. (718) 595-3557  
slawitts@dep.nyc.gov



[www.nyc.gov/dep](http://www.nyc.gov/dep)

DIAL 311 Government Information  
and Services for NYC

June 25, 2007

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

**RE: Order on Consent (CSO Order)  
DEC Case # CO2-20000107-8  
East River and Open Waters Waterbody/Watershed  
Facility Plan Report**

Dear Mr. DiMura:

In accordance with Section III of the above referenced proposed Consent Order for Combined Sewer Overflow (Order), this letter is to certify completion of the East River and Open Waters Waterbody/Watershed Facility Plan Report by the New York City Department of Environmental Protection (NYCDEP).

In accordance with Section III, paragraph A of the Order and the schedule of milestones set forth in Appendix A, Items I. B. 2 and II. B. 1 of the Order, this report is attached for your review.

Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

James G. Mueller, P.E.  
Director

Facilities Planning and Design

JGM:dc  
Enclosure

Cc: NYSDEC: S. McCormick, T. Rudolph, G. Klein, R. Elburn, S. Allen, S.  
Crisafulli  
NYSEFC: T. Burns  
USEPA: L. Gaugler, J. Olander  
NYCLAW: W. Plache  
NYCDEP: A. Spangel, K. Mahoney, D. Chao, E. Rogak, K. Clarke, C. Vavilis  
JV: R. Smith, P. Young, W. Leo, J. Grgin, D. McKinney, L. Kachalsky,  
File

P. Young



August 4, 2006

DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION

96-05 Horace Harding Expressway  
Corona, New York 11368

**Emily Lloyd**  
Commissioner

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

**RE: Order on Consent (CSO Order)**  
**DEC Case # CO2-20000107-8**  
**Gowanus Canal Waterbody/Watershed Facility Plan**  
**Report**

Alfonso R. Lopez, P.E.  
Deputy Commissioner

Bureau of Engineering  
Design & Construction

Tel. (718) 595-5050  
Fax (718) 595-5999  
alopez@dep.nyc.gov

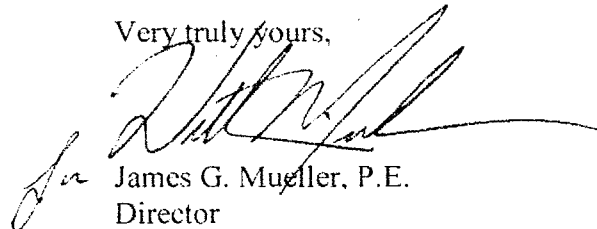
Dear Mr. DiMura:

In accordance with Section III of the above referenced proposed Consent Order for Combined Sewer Overflow (Order), this letter is to certify completion of the Gowanus Canal Waterbody/Watershed Facility Plan Report by the New York City Department of Environmental Protection (DEP).

In accordance with Section III, paragraph A of the Order and the schedule of milestones set forth in Appendix A, III, B, I of the Order, this report is attached for your review.

Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,



James G. Mueller, P.E.  
Director  
Facilities Planning and Design

JGM:jv  
Enclosure



Copy to:

Timothy Burns  
New York State Environmental Facilities Corporation  
625 Broadway  
Albany, NY 12207

Gary E. Kline, P.E.  
New York State Department of Environmental Conservation  
Division of Water  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3500

Robert Elburn, P.E.  
Regional Water Engineer  
Division of Water, Region 2  
New York State Department of Environmental Conservation  
47-40 21 Street  
Long Island City, NY 11101

Without attachment

Sandra Allen  
Director, Division of Water  
New York State Department of Environmental Conservation  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3500

Scott Crisafulli, Esq.  
Water Compliance Counsel  
New York State Department of Environmental Conservation  
Division of Environmental Enforcement  
625 Broadway, 14<sup>th</sup> Floor  
Albany, NY 12233-5500

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

DEP: with attachments

A. Spangol, M. Klein, S. Gibbons, K. Au, C. Villari

without attachments

E. Rogak, G. Tang, S. Mallik, J. Javaheri



**DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION**

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**Emily Lloyd  
Commissioner**

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**Steven W. Lawitts  
First Deputy Commissioner**

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**DIAL 311** Government Information  
and Services for NYC

June 25, 2007

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

**RE: Order on Consent (CSO Order)  
DEC Case # CO2-20000107-8  
Flushing Bay and Flushing Creek  
Waterbody/Watershed Facility Plan Report**

Dear Mr. DiMura:

In accordance with Section III of the above referenced proposed Consent Order for Combined Sewer Overflow (Order), this letter is to certify completion of the Flushing Bay and Flushing Creek Waterbody/Watershed Facility Plan Report by the New York City Department of Environmental Protection (NYCDEP).

In accordance with Section III, paragraph A of the Order and the schedule of milestones set forth in Appendix A, Items V. B. 1 and 2 of the Order, this report is attached for your review.

Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

James G. Mueller, P.E.  
Director  
Facilities Planning and Design

JGM:dc  
Enclosure

Cc: NYSDEC: S. McCormick, T. Rudolph, G. Klein, R. Elburn, S. Allen, S.  
Crisafulli  
NYSEFC: T. Burns  
USEPA: L. Gaugler, J. Olander  
NYCLAW: W. Plache  
NYCDEP: A. Spangel, K. Mahoney, D. Chao, E. Rogak, K. Clarke, C. Vavilis  
JV: R. Smith, P. Young, W. Leo, J. Grgin, D. McKinney, L. Kachalsky,  
File





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**DIAL 311** Government Information  
and Services for NYC

June 25, 2007

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

**RE: Order on Consent (CSO Order)  
DEC Case # CO2-20000107-8  
Jamaica Bay and CSO Tributaries  
Waterbody/Watershed Facility Plan Report**

Dear Mr. DiMura:

In accordance with Section III of the above referenced proposed Consent Order for Combined Sewer Overflow (Order), this letter is to certify completion of the Jamaica Bay and CSO Tributaries Waterbody/Watershed Facility Plan Report by the New York City Department of Environmental Protection (NYCDEP).

In accordance with Section III, paragraph A of the Order and the schedule of milestones set forth in Appendix A, Items VI. B. 1 and 2 and XII. B. 1, 2, 3, and 4 of the Order, this report is attached for your review.

Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

James G. Mueller, P.E.  
Director  
Facilities Planning and Design

JGM:dc  
Enclosure

Cc: NYSDEC: S. McCormick, T. Rudolph, G. Klein, R. Elburn, S. Allen, S.  
Crisafulli  
NYSEFC: T. Burns  
USEPA: L. Gaugler, J. Olander  
NYCLAW: W. Plache  
NYCDEP: A. Spangel, K. Mahoney, D. Chao, E. Rogak, K. Clarke, C. Vavilis  
JV: R. Smith, P. Young, W. Leo, J. Grgin, D. McKinney, L. Kachalsky,  
File



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**DIAL 311** Government Information  
and Services for NYC

June 25, 2007

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

**RE: Order on Consent (CSO Order)  
DEC Case # CO2-20000107-8  
Coney Island Creek Waterbody/Watershed Facility Plan  
Report**

Dear Mr. DiMura:

In accordance with Section III of the above referenced proposed Consent Order for Combined Sewer Overflow (Order), this letter is to certify completion of the Coney Island Creek Waterbody/Watershed Facility Plan Report by the New York City Department of Environmental Protection (NYCDEP).

In accordance with Section III, paragraph A of the Order and the schedule of milestones set forth in Appendix A, Item VII. B. 1 of the Order, this report is attached for your review.

Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

James G. Mueller, P.E.  
Director  
Facilities Planning and Design

JGM:dc  
Enclosure

Cc: NYSDEC: S. McCormick, T. Rudolph, G. Klein, R. Elburn, S. Allen, S.  
Crisafulli  
NYSEFC: T. Burns  
USEPA: L. Gaugler, J. Olander  
NYCLAW: W. Plache  
NYCDEP: A. Spangel, K. Mahoney, D. Chao, E. Rogak, K. Clarke, C. Vavilis  
JV: R. Smith, P. Young, W. Leo, J. Grgin, D. McKinney, L. Kachalsky,  
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**DIAL 311** Government Information  
and Services for NYC

June 25, 2007

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

**RE: Order on Consent (CSO Order)  
DEC Case # CO2-20000107-8  
Newtown Creek Waterbody/Watershed Facility Plan  
Report**

Dear Mr. DiMura:

In accordance with Section III of the above referenced proposed Consent Order for Combined Sewer Overflow (Order), this letter is to certify completion of the Newtown Creek Waterbody/Watershed Facility Plan Report by the New York City Department of Environmental Protection (NYCDEP).

In accordance with Section III, paragraph A of the Order and the schedule of milestones set forth in Appendix A, Item VIII. B. 1 of the Order, this report is attached for your review.

Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

James G. Mueller, P.E.  
Director  
Facilities Planning and Design

JGM:dc  
Enclosure

Cc: NYSDEC: S. McCormick, T. Rudolph, G. Klein, R. Elburn, S. Allen, S.  
Crisafulli  
NYSEFC: T. Burns  
USEPA: L. Gaugler, J. Olander  
NYCLAW: W. Plache  
NYCDEP: A. Spangel, K. Mahoney, D. Chao, E. Rogak, K. Clarke, C. Vavilis  
JV: R. Smith, P. Young, W. Leo, J. Grgin, D. McKinney, L. Kachalsky,  
File



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DIAL 311 Government Information  
and Services for NYC

June 25, 2007

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

**RE: Order on Consent (CSO Order)  
DEC Case # CO2-20000107-8  
Westchester Creek Waterbody/Watershed Facility Plan  
Report**

Dear Mr. DiMura:

In accordance with Section III of the above referenced proposed Consent Order for Combined Sewer Overflow (Order), this letter is to certify completion of the Westchester Creek Waterbody/Watershed Facility Plan Report by the New York City Department of Environmental Protection (NYCDEP).

In accordance with Section III, paragraph A of the Order and the schedule of milestones set forth in Appendix A, Item IX. B. 1 of the Order, this report is attached for your review.

Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

James G. Mueller, P.E.  
Director  
Facilities Planning and Design

JGM:dc  
Enclosure

Cc: NYSDEC: S. McCormick, T. Rudolph, G. Klein, R. Elburn, S. Allen, S.  
Crisafulli  
NYSEFC: T. Burns  
USEPA: L. Gaugler, J. Olander  
NYCLAW: W. Plache  
NYCDEP: A. Spangel, K. Mahoney, D. Chao, E. Rogak, K. Clarke, C. Vavilis  
JV: R. Smith, P. Young, W. Leo, J. Grgin, D. McKinney, L. Kachalsky,  
File





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DIAL 311 Government Information  
and Services for NYC

June 25, 2007

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

**RE: Order on Consent (CSO Order)  
DEC Case # CO2-20000107-8  
Bronx River Waterbody/Watershed Facility Plan Report**

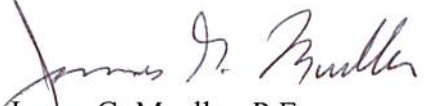
Dear Mr. DiMura:

In accordance with Section III of the above referenced proposed Consent Order for Combined Sewer Overflow (Order), this letter is to certify completion of the Bronx River Waterbody/Watershed Facility Plan Report by the New York City Department of Environmental Protection (NYCDEP).

In accordance with Section III, paragraph A of the Order and the schedule of milestones set forth in Appendix A, Item X. B. 1 of the Order, this report is attached for your review.

Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

  
James G. Mueller, P.E.  
Director  
Facilities Planning and Design

JGM:dc  
Enclosure

**Cc:** NYSDEC: S. McCormick, T. Rudolph, G. Klein, R. Elburn, S. Allen, S. Crisafulli  
NYSEFC: T. Burns  
USEPA: L. Gaugler, J. Olander  
NYCLAW: W. Plache  
NYCDEP: A. Spangel, K. Mahoney, D. Chao, E. Rogak, K. Clarke, C. Vavilis  
JV: R. Smith, P. Young, W. Leo, J. Grgin, D. McKinney, L. Kachalsky,  
File



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First Deputy Commissioner

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**DIAL 311** Government Information  
and Services for NYC

June 25, 2007

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

**RE: Order on Consent (CSO Order)  
DEC Case # CO2-20000107-8  
Hutchinson River Waterbody/Watershed Facility Plan  
Report**

Dear Mr. DiMura:

In accordance with Section III of the above referenced proposed Consent Order for Combined Sewer Overflow (Order), this letter is to certify completion of the Hutchinson River Waterbody/Watershed Facility Plan Report by the New York City Department of Environmental Protection (NYCDEP).

In accordance with Section III, paragraph A of the Order and the schedule of milestones set forth in Appendix A, Item XI. B. 1 of the Order, this report is attached for your review.

Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

James G. Mueller, P.E.  
Director  
Facilities Planning and Design

JGM:dc  
Enclosure

Cc: NYSDEC: S. McCormick, T. Rudolph, G. Klein, R. Elburn, S. Allen, S.  
Crisafulli  
NYSEFC: T. Burns  
USEPA: L. Gaugler, J. Olander  
NYCLAW: W. Plache  
NYCDEP: A. Spangel, K. Mahoney, D. Chao, E. Rogak, K. Clarke, C. Vavilis  
JV: R. Smith, P. Young, W. Leo, J. Grgin, D. McKinney, L. Kachalsky,  
File





DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION

96-05 Horace Harding Expressway  
Corona, New York 11368

**Emily Lloyd**  
Commissioner

Alfonso R. Lopez, P.E.  
Deputy Commissioner

Bureau of Engineering  
Design & Construction

Tel. (718) 595-5050  
Fax (718) 595-5999  
alopez@dep.nyc.gov

April 30, 2007

Mr. Joseph DiMura, P.E.  
Director  
Bureau of Environmental Compliance  
New York State Department of  
Environmental Conservation  
Division of Water  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3500

**Re: Order on Consent (CSO Order)  
DEC Case #CO2-20000107-8  
Certification of Construction Completion for  
Spring Creek AWPCP Upgrade**

Dear Mr. DiMura:

In accordance with Section III-F of the above referenced Consent Order for Combined Sewer Overflow (the Order), this letter is to certify the compliance with a milestone contained in the Order by the New York City Department of Environmental Protection (DEP). Attached, please find the certification letter from the Construction Manager. Specifically, construction has been completed for the Spring Creek AWPCP Upgrade, in conformance with Milestone XII.C.5 in Appendix A of the Order.

Please contact me at (718) 595-5973 if you have any questions regarding this certification.

Very truly yours,

James G. Mueller, P.E.  
Director  
Facilities Planning and Design

JGM:jv  
Attachment



[www.nyc.gov/dep](http://www.nyc.gov/dep)

DIAL 311 Government Information  
and Services for NYC

cc: Sandra Allen  
Director, Division of Water  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233-3500

Scott Crisafulli, Esq.  
Water Compliance Counsel  
New York State Department of Environmental Conservation  
Division of Environmental Enforcement  
625 Broadway, 14<sup>th</sup> Floor  
Albany, NY 12233-5500

Gary E. Kline, P.E.  
Division of Water  
New York State Department of Environmental Conservation  
625 Broadway 4<sup>th</sup> Floor  
Albany, NY 12233-3500

Robert Elburn, P.E.  
Regional Water Engineer  
Division of Water, Region 2  
New York State Department of Environmental Conservation  
47-40 21<sup>st</sup> Street  
Long Island City, New York 11101

Timothy Burns, P.E.  
New York State Environmental  
Facilities Corporation  
625 Broadway  
Albany, New York 12207

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

DEP: R. Levine, E. Rogak, K. Mahoney, K. Clarke, D. Chao, R. Marandi,  
File

# CDM BLK

in joint venture

100 Crossways Park Drive West Suite #415 Woodbury, NY 11797-2012  
516-496-8400 (phone) 516-496-8864 (fax)

April 30, 2007

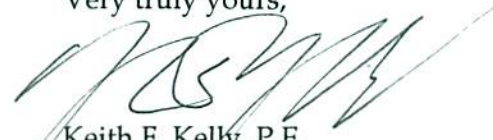
Mr. Michael Borsykowsky  
Director  
Construction Management  
New York City Department of Environmental Protect  
Bureau of Engineering Design and Construction  
59-17 Junction Boulevard  
Flushing, New York 11373

Subject: Spring Creek AWPCP Upgrade  
DEC Case #CO2-20000107-8  
Certification of Construction

Dear Mr. Borsykowsky:

CDM/BLK JV is providing this certification that the Spring Creek AWPCP process related equipment and facilities have been constructed in accordance with the approved plans and specifications. The process systems have been placed into operation to meet applicable SPDES permit requirements. Remaining work consists of punch list items and change order work that does not affect the facility operation. This work has been constructed and made operational in accordance with Milestone XII.C.5 in Appendix A of the above referenced Order.

Very truly yours,

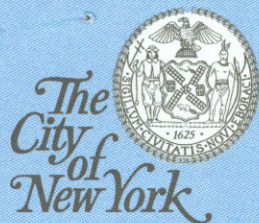
  
Keith F. Kelly, P.E.  
Project Manager  
CDM/BLK JV







June 20, 2007



**DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION**

59-17 Junction Boulevard  
Flushing, New York 11373

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**Steven W. Lawitts  
First Deputy Commissioner**

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DIAL 311 Government Information  
and Services for NYC

Mr. Joseph DiMura, P.E.  
Director, Bureau of Compliance  
New York State Department of  
Environmental Conservation  
Division of Water  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3500

Re: **Order on Consent (CSO Order)**  
**DEC Case #CO2-20000107-8**  
**Certification of Final Design Completion of Jamaica Bay CSO / 26<sup>th</sup>**  
**Ward Drainage Area Sewer Cleaning**

Dear Mr. DiMura:

In accordance with Section III F of the above referenced Consent Order for Combined Sewer Overflow (Order), this letter is to certify completion of a final design milestone contained in Appendix A (Milestone XII, D, 2) for 26th Ward Drainage Area Sewer Cleaning contract, by the New York City Department of Environmental Protection (DEP).

In accordance with the definition of design completion set forth in Section III, paragraph H (1) of the Order, approvable plans and specifications are enclosed for your review. These documents are for review purposes only; they and not for public release and therefore are stamped "confidential". The Engineers Report that includes the CPM schedule is enclosed to facilitate the review of the drawings and specifications for this project.

Approvable plans and specifications are also being provided to Timothy Burns of the NYS Environmental Facilities Corporation and DEC's Region 2 office. Any necessary addenda to these plans and specifications will be provided as they become available. Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

James G. Mueller, P.E.  
Director  
Planning and Capital Budget

Enc.



cc: w/attachments  
Timothy Burns, P.E.  
New York State Environmental  
Facilities Corporation  
625 Broadway  
Albany, New York 12207

Gary E. Kline, P.E.  
Division of Water  
New York State Department of Environmental Conservation  
625 Broadway 4<sup>th</sup> Floor  
Albany, NY 12233-3500

Robert Elburn, P.E.  
Regional Water Engineer  
Division of Water, Region 2  
New York State Department of Environmental Conservation  
47-40 21<sup>st</sup> Street  
Long Island City, New York 11101

w/out attachments:  
Sandra Allen, P.E.  
Director, Division of Water  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233-3500

Scott Crisafulli, Esq.  
Water Compliance Counsel  
New York State Department of Environmental Conservation  
Division of Environmental Enforcement  
625 Broadway, 14<sup>th</sup> Floor  
Albany, NY 12233-5500

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

DEP: E. Rogak, K. Mahoney, E. Paradis, P. Young (H&S), File



**DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION**

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Commissioner

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First Deputy Commissioner

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DIAL 311 Government Information  
and Services for NYC

June 28, 2007

Mr. Joseph DiMura, P.E.  
Director, Bureau of Compliance  
New York State Department of  
Environmental Conservation  
Division of Water  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3500

**Re: Order on Consent (CSO Order)  
DEC Case #CO2-20000107-8  
Certification of Final Design Completion of Jamaica Bay CSO /  
Hendrix Creek Dredging**

Dear Mr. DiMura:

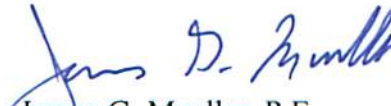
In accordance with Section III F of the above referenced Consent Order for Combined Sewer Overflow (Order), this letter is to certify completion of a final design milestone contained in Appendix A (Milestone XII, E, 2) for the Hendrix Creek Dredging contract, by the New York City Department of Environmental Protection (DEP).

In accordance with the definition of design completion set forth in Section III, paragraph H (1) of the Order, approvable plans and specifications are enclosed for your review. These documents are for review purposes only; and not for public release and therefore are stamped "confidential". A basis of design report is enclosed to facilitate the review of the drawings and specifications.

Also included in this submittal is a preliminary CPM schedule diagram for the Hendrix Creek Dredging work.

Approvable plans and specifications are also being provided to Timothy Burns of the NYS Environmental Facilities Corporation and DEC's Region 2 office. Any necessary addenda to these plans and specifications will be provided as they become available. Please contact me at (718) 595-5973 if you have any questions regarding this submittal.

Very truly yours,

  
James G. Mueller, P.E.  
Director  
Planning and Capital Budget

Enc.

cc: w/attachments

Timothy Burns, P.E.  
New York State Environmental  
Facilities Corporation  
625 Broadway  
Albany, New York 12207

Gary E. Kline, P.E.  
Division of Water  
New York State Department of Environmental Conservation  
625 Broadway 4<sup>th</sup> Floor  
Albany, NY 12233-3500

Robert Elburn, P.E.  
Regional Water Engineer  
Division of Water, Region 2  
New York State Department of Environmental Conservation  
47-40 21<sup>st</sup> Street  
Long Island City, New York 11101

w/out attachments:

Sandra Allen, P.E.  
Director, Division of Water  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233-3500

Scott Crisafulli, Esq.  
Water Compliance Counsel  
New York State Department of Environmental Conservation  
Division of Environmental Enforcement  
625 Broadway, 14<sup>th</sup> Floor  
Albany, NY 12233-5500

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

DEP: E. Rogak, K. Mahoney, E. Paradis, P. Young (H&S), File





**DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION**

59-17 Junction Boulevard  
Flushing, New York 11373

**Emily Lloyd  
Commissioner**

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Fax (718) 595-3525  
elloyd@dep.nyc.gov

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First Deputy Commissioner**

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Fax. (718) 595-3557  
slawitts@dep.nyc.gov



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DIAL 311 Government Information  
and Services for NYC

June 29, 2007

Mr. Joseph DiMura, P.E.  
Director, Bureau of Compliance  
New York State Department of  
Environmental Conservation  
Division of Water  
625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3500

Re: **Order on Consent (CSO Order)**  
**DEC Case #CO2-20000107-8**  
**Certification of Initiation of Final Design for the Newtown Creek CSO:**  
**Aeration Zone II and Relief Sewer/Regulator Modifications**

Dear Mr. DiMura:

In accordance with Section III F of the above referenced Consent Order for Combined Sewer Overflow (the Order), this letter certifies compliance by the New York City Department of Environmental Protection (DEP) with the following milestones contained in Appendix A of the Order:

- Milestone VIII. D. 1 for the initiation of final design of the Aeration Zone II Facilities – DEP has begun work for Aeration Zone II through the existing Newtown Creek Aeration Zone I contract and will complete the design through a separate contract, both of which have been awarded to the URS Corporation.
- Milestone VIII. E. 1 for the initiation of final design of the relief sewer and regulator modifications – Designs for the sewer modifications have been initiated via a Task Order Contract and the remaining sewer relief work is included as a task of the Newtown Creek Aeration Zone II contract. However, as stated in a letter submitted to the DEC on April 30th, the DEP is recommending that these elements be removed from the consent order and will be proposing alternate milestones as part of the Newtown Creek WB/WS Facility Plan.

Please contact me at (718) 595-5973 if you have any questions regarding this certification.

Very truly yours,

James G. Mueller, P.E.  
Director  
Facilities Planning and Design

cc: Timothy Burns, P.E.  
New York State Environmental  
Facilities Corporation  
625 Broadway  
Albany, New York 12207

Gary E. Kline, P.E.  
Division of Water  
New York State Department of Environmental Conservation  
625 Broadway 4<sup>th</sup> Floor  
Albany, NY 12233-3500

Robert Elburn, P.E.  
Regional Water Engineer  
Division of Water, Region 2  
New York State Department of Environmental Conservation  
47-40 21<sup>st</sup> Street  
Long Island City, New York 11101

Sandra Allen, P.E.  
Director, Division of Water  
New York State Department of Environmental Conservation  
625 Broadway  
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Water Compliance Counsel  
New York State Department of Environmental Conservation  
Division of Environmental Enforcement  
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Albany, NY 12233-5500

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

DEP: E. Rogak, K. Mahoney, K. Clarke, D. Chao, P. Young (H&S), File



**DEPARTMENT OF  
ENVIRONMENTAL  
PROTECTION**

59-17 Junction Boulevard  
Flushing, New York 11373

**Emily Lloyd  
Commissioner**

**Alfonso R. Lopez, P.E.  
Deputy Commissioner**

**Bureau of Engineering  
Design & Construction**

Tel. (718) 595-5050  
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[www.nyc.gov/dep](http://www.nyc.gov/dep)

**DIAL 311** Government Information  
and Services for NYC

May 31, 2007

Mr. Joseph DiMura, P.E.  
Director  
Bureau of Environmental Compliance  
New York State Department of Environmental Conservation  
Division of Water  
625 Broadway, 4<sup>th</sup> Floor  
Albany, N.Y. 12233-3500

Re: Order on Consent (CSO Order)  
DEC Case #CO2-20000107-8  
Certification of Construction Completion for  
Flushing Bay CSO CS4-4 Mechanical Structures

Dear Mr. DiMura:

In accordance with Section III-F of the above referenced Consent Order for Combined Sewer Overflow (the Order), this letter is to certify the compliance with a milestone contained in the Order by the New York City Department of Environmental Protection (DEP). Attached, please find the certification letter from the Construction Manager. Specifically, construction has been completed for the Flushing Bay CSO CS4-4 Mechanical Structures, in conformance with Milestone V.F.4 in Appendix A of the Order.

Please contact me at (718) 595-5973 if you have any questions regarding this certification.

Very truly yours,

James G. Mueller, P.E.  
Director  
Facilities Planning and Design

JGM:dc  
Attachment

cc: Sandra Allen  
Director, Division of Water  
New York State Department of Environmental Conservation  
625 Broadway  
Albany, NY 12233-3500

Scott Crisafulli, Esq.  
Water Compliance Counsel  
New York State Department of Environmental Conservation  
Division of Environmental Enforcement  
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Regional Water Engineer  
Division of Water, Region 2  
New York State Department of Environmental Conservation  
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New York State Environmental Facilities Corporation  
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Assistant Corporation Counsel  
New York City Law Department  
100 Church Street  
New York, NY 10007

DEP: R. Levine, E. Rogak, M. Borsykowsky, N. Cholewka, K. Mahoney, D. Chao



May 31, 2007

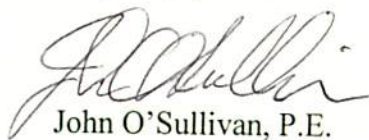
Mr. Michael Borsykowsky  
Director  
Construction Management  
New York City Department of Environmental Protection  
Bureau of Engineering Design and Construction  
59-17 Junction Boulevard  
Flushing, New York 11373

Subject: Flushing Bay CSO Retention Facility  
DEC Case #CO2-20000107-8  
Certification of Construction

Dear Mr. Borsykowsky:

Malcolm Pirnie Inc. is providing this certification that the Flushing Bay CSO Retention Facility equipment and facilities have been constructed in accordance with the approved plans and specifications. The process systems with the exception of odor control equipment have been placed into operation on May 17, 2007 to meet applicable SPDES permit requirements. Other remaining work consists of punch list items and change order work which does not affect the facility operation. This work has been constructed and made operational in accordance with Milestone V.F.4 in Appendix A of the above referenced Order.

Very truly yours,

  
John O'Sullivan, P.E.  
Resident Engineer



