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

Combined Sewer Overflow Order on Consent

Quarterly Progress Report – Fourth Quarter 2004

January 2005

The City of New York

DEPARTMENT OF ENVIRONMENTAL PROTECTION
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JAN 28 2005

Mr. Robert Elburn, P.E.
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New York State Department of
Environmental Conservation
47-40 21st Street
Long Island City, NY 11101

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

Dear Mr. Elburn:

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 October 1, 2004 through December 31, 2004.

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

Very truly yours,

James G Mueller

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

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City of New York
Department of Environmental Protection
Bureau of Environmental Engineering

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

QUARTERLY PROGRESS REPORT
FOURTH QUARTER 2004
(October 1 - December 31)

January 28, 2005

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1.0. Executive Summary

The Combined Sewer Overflow "CSO" Order on Consent, DEC Case # CO2-200000107-8 (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 and progress of the New York City Department of Environmental Protection ("DEP") in complying with the milestones set forth in the Order during the period from October 1, 2004 through December 31, 2004.

The Order was signed by the City on August 17, 2004 and published for public comment by DEC on September 8, 2004. The Order replaces similar CSO Orders on Consent developed between the parties in 1992 and 1996. The public comment period, originally limited to 30 days, was extended twice to November 15, 2004, to allow for additional commentary and became effective on January14, 2005.

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 below, either met or postponed, written notification was submitted by DEP to DEC.

Table 1 – Milestones Met (October 2004 - December 2004)

LOCATION/PROJECT AREA	ITEM DESCRIPTION	ACTION REQUIRED	DATE SUBMITTED
Paerdegat Basin	Structures and Equipment	Final Design Completion Including CPM Analysis	November 2004
Newtown Creek	Aeration Zone I	Final Design Completion Including CPM Analysis	December 2004
Citywide Comprehensive Floatables	Facility Plan Development	Submit Modified Plan	December 2004

Table 2 – Milestones Postponed (October 2004 - December 2004)

LOCATION/PROJECT AREA	ITEM DESCRIPTION	ACTION REQUIRED	REASON FOR POSTPONMENT
Flushing Bay	Mechanical Structures	Construction Completion	Force Majeure

During this quarter, DEP and DEC drafted a document in response to public comments on the Order. Comments were received from public agencies, elected officials, private organizations and private individuals. More than 600 official comments were received by letter, facsimile, or email during the comment period. The purpose of the response to comment document is to acknowledge and respond to the various comments received on the Order.

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 January 2005 and March 2005*:*

- Finalize the responses to public comment on the Order.
- Advertise and receive bids on the Paerdegat Basin – Structures and Equipment contracts and the Newtown Creek – Aeration Zone I contracts.
- Submit written notification to DEC on the following upcoming milestones:

Table 3 – Milestones to be Met Next Quarter

LOCATION/PROJECT AREA	ITEM DESCRIPTION	ACTION REQUIRED	DATE TO BE SUBMITTED
Coney Island Creek	Avenue V Pumping Station	Final Design Completion Including CPM Analysis	January 2005
Outer Harbor	Regulator Improvements - Automation	Initiate Final Design	February 2005
Inner Harbor	Regulator Improvements - Automation	Initiate Final Design	February 2005
Jamaica Tributaries	Regulator Improvements - Automation	Initiate Final Design	February 2005

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

WATERBODY	ITEM DESCRIPTION	NOTICE TO PROCEED	CONSTRUCTION COMPLETION	PERCENTAGE OF CONSTRUCTION COMPLETED
Alley Creek	Outfall and Sewer System Improvements	Dec 2002	Dec 2006	49%
	CSO Retention Facility	Dec 2006	Dec 2009	-
Outer Harbor	Regulator Improvements - Fixed Orifices	Feb 2006	Jul 2008	-
	Regulator Improvements - Automation	Nov 2007	Jun 2010	-
	Port Richmond Throttling Facility	Jun 2006	Dec 2008	-
	In-Line Storage	Aug 2007	Aug 2010	-
Inner Harbor	Regulator Improvements - Fixed Orifices	Feb 2003	Apr 2006	90%
	Regulator Improvements - Automation	Nov 2007	Jun 2010	-
	In-Line Storage	Aug 2007	Aug 2010	-
Paerdegat Basin	Influent Channel	Feb 1999	Feb 2002	100%
	Foundations and Substructures	Jun 2002	Dec 2006	86%
	Structures and Equipment	Sep 2005	Aug 2011	-
Flushing Bay	Reroute and Construct Effluent Channel	Jun 1995	Jun 1996	100%
	Relocate Ballfields	Apr 1995	Aug 1995	100%
	Storage Tank	Jul 1997	Aug 2001	100%
	Mechanical Structures	Mar 2002	Dec 2004	90%
	Tide Gates	Dec 2000	Apr 2002	100%
	Manual Sluice Gates	Feb 2004	Jun 2005	100%

Jamaica Tributaries	Meadowmere & Warnerville DWO Abatement	Mar 2006	Mar 2009	-
	Expansion of Wet Weather Capacity of Jamaica WPCP	Jun 2012	Jun 2015	-
	Destratification Facility	Aug 2007	Dec 2008	-
	Regulator Automation	Nov 2007	Jun 2010	-
Coney Island Creek	Avenue V Pumping Station Upgrade	Nov 2005	Apr 2011	-
	Avenue V Force Main	Jul 2007	Jun 2012	-
Newtown Creek	Aeration Zone I	Dec 2005	Dec 2008	-
	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	-
Westchester Creek	Phase I (Influent Sewers)	Jun 2011	Jun 2015	-
	CSO Storage Facility	Dec 2015	Dec 2022	-
Bronx River	Floatables Control	Jun 2009	Jun 2012	-
Hutchinson River	Phase I of the Storage Facility	Jun 2011	Jun 2015	-
	Future Phases	Dec 2016	Dec 2023	-
Jamaica Bay	Spring Creek AWPCP Upgrade	Mar 2003	Apr 2007	50%
	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	-

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 Facilities Plan, will be constructed in two stages:

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

Work Performed During This Quarter

Design

- Design of Stage 2 (Contract ER-AC2) continued.
- In late October 2004, a set of drawings were submitted to the DEP presenting the proposed site restoration work to be performed at the Old Douglaston Pumping Station under Stage 2 (Contract ER-AC2).

Construction

- Construction of Stage 1 (Contract ER-AC1) continued. The principal work involved the construction of sections of the pile-supported 16′-0″ W x 7′-6″ H double-barrel outfall sewer, and installation of a section of the new Old Douglaston Pumping Station force main. In addition, permanent restoration of the upstream sewer area west of the intersection of 46th Avenue and 223rd Street was completed, except for the planting of the street trees, which is scheduled to be performed in the Spring of 2005. Construction is currently about 49 percent complete.

- Construction of Stage 2 (Contract ER-AC2) has not yet been initiated.

Missed Milestones

- There are no missed milestones.

Anticipated Activities for Next Quarter

- Construction of Stage 1 (Contract ER-AC1) will continue. The principal work will include construction of Chamber No. 6 located at the intersection of 46th Avenue and 223rd Street, construction of sections of the 16′-0″ W x 7′-6″ H double-barrel outfall sewer, and construction of the new outfall structure on the west bank of Alley Creek.
- Design of Stage 2 (Contract ER-AC2) will continue.
- The DEP and NYCDPR need to agree on the required site restoration work at the Old Douglaston Pumping Station under Stage 2 (Contract ER-AC2).

Table 5 – Alley Creek CSO Project

	Phase I, Stage 1	*Phase I, Stage 2*
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, 216th Street, 217th Street, Springfield Boulevard, Cross Island Parkway, Northern Boulevard and Alley Park in Bayside, Queens	Northern Boulevard and Alley Park in Bayside, Queens
Actions:	Construction of additional 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
Cost:	$100,000,000	$17,900,000
Status:	Under construction by Carp Construction Corporation	Final design underway

3.2. Outer Harbor CSO

The Outer Harbor CSO Facility Planning area consists of the drainage areas of the Port Richmond, Oakwood Beach, Owls Head and Coney Island (separately sewered area) 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, Phase II - Throttling Facility and Phase III – In-Line Storage.

Phase I will provide improvements to 32 regulators in the Outer Harbor study area. Phase II entails the design of a throttling facility in the Port Richmond east interceptor, which will store up to 5 MG upstream of the Port Richmond WPCP. Phase III proposed in-line storage at two inflatable dam locations in Outer Harbor.

Work Performed During This Quarter

Planning

- An Environmental Assessment Statement (EAS) was initiated for the Phase II - Port Richmond Throttling Facility.
- Maintenance and protection of traffic (MPT) plans have been developed for the Phase II construction work and a stipulations sheet has been issued by NYCDOT.
- A Memorandum of Understanding (MOU) for Phase I regulator sites in NYCDPR property and sites obstructing entrances to private property has been developed.
- A MOU for the Phase II work zone area obstructing entrances to private property has been developed.

Design

- The Phase I (Regulator Improvements) 90% design drawing set and specifications was submitted to DEP on October 26, 2004 for review and comment.
- The Phase II (Throttling Facility) 60% design drawing set and specifications were submitted to DEP on November 12, 2004 for review and comment. Work continues toward the 90% design.

Construction

- Construction has not yet initiated for this project.

Missed Milestones

- There are no missed milestones.

Anticipated Activities for Next Quarter

- Phase I and II final design will continue. The 100% design submittals are scheduled for April 2005 and August 2005, respectively, in compliance with the CSO Consent Order.

- Submit Phase II draft EAS to OEPA for review on February 1, 2005.
- Coordinate the development of both MOUs with DEP Legal Department.

Table 6 – Outer Harbor CSO Project

	Phase I	*Phase II*	*Phase III*
Plan Elements:	Regulator Improvements	Throttling Facility	In-Line Storage
Location:	32 regulator sites throughout Brooklyn and Staten Island	Port Richmond WPCP	Owls Head: OH-6C P. Richmond: PR-6W
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
Project Cost:	$4,800,000	$1,300,000	$3,100,000
Status:	Final Design – 90% Complete	Final Design – 60% Complete	Final Design – Not Initiated
Other Issues:	-	-	Awaiting Hunts Point demonstration test results and approval by BWSO

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, Phase II – Throttling Facilities, and Phase III – In-Line Storage.

Phase I provides improvements to 72 regulators in the Inner Harbor study area. Phase II entails the design and construction of throttling facilities at the Manhattan Pumping Station, Newtown Creek WPCP, Red Hook WPCP, and North River WPCP. Phase III provides in-line storage at two inflatable dam locations in the study area.

Work Performed During This Quarter

Construction

- Work has continued on the construction of Phase I, which is broken up into two contracts: Brooklyn Regulator Improvements (32 regulators) and Manhattan Regulator Improvements (40 regulators). Construction is currently about 90% complete.

Missed Milestones

- There are no missed milestones.

Anticipated Activities for Next Quarter

- Work will continue on the construction of Phase I, with completion expected by next quarter.

Table 7 – Inner Harbor CSO Project

	Phase I	*Phase II*	*Phase III*
Plan Elements:	Regulator Improvements	Throttling Facilities	In-Line Storage
Location:	72 regulator sites in Manhattan and Brooklyn	North River WPCP, Manhattan Pumping Station, Newtown Creek WPCP	Upstream of regulators B-6 and R-20 in Brooklyn
Actions:	Conversion to fixed orifices	Installation of sluice gates and actuator in interceptor sewer	Installation of two inflatable dams in the combined sewer systems
Construction Cost:	$9,500,000	$10,000,000	$3,000,000
Status:	In Construction	WWOP for NR Submitted to DEC Construction contract at NC underway Construction contract at MPS being registered	Final Design – Not Initiated
Other Issues:	-	-	Awaiting Hunts Point demonstration test results and approval by BWSO

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 entails construction of the CSO tank and dredging of the basin. Phase III includes construction of the aboveground buildings, completion of the remaining influent channels and installation of the CSO tank equipment and start-up of the CSO facility.

Work Performed During This Quarter

Design

- The milestone for Final Design Completion Including CPM analysis of Phase III-Structures and Equipment was met in November 2004. DEP certified completion of this milestone in a letter to DEC dated November 28, 2004. Plans and specifications including CPM analysis were also submitted to NYS Environmental Facilities Corporation.

Construction

- Work has continued on the construction of Phase II - Foundations and Substructures and is approximately 86% complete.

Missed Milestones

- There are no missed milestones.

Anticipated Activities for Next Quarter

Design

- Phase III, Structures and Equipment, is scheduled to advertise in January 2005 in order to meet the next milestone date for Notice to Proceed to Construction by September 2005.

Construction

- Work will continue on the construction of Phase II, Foundations and Substructures in order to meet the next milestone date for Construction Completion by December 2006.

Table 8 – Paerdegat Basin CSO Project

	Phase IA	*Phase II*	*Phase III*
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	$119,101,386	$173,548,189
Status:	Construction completed.	NTP issued on 6/24/02. Construction 86% complete.	Final Design 100% complete. Advertisement of contract scheduled for 1/2005.
Other Issues:	-	Dredging of the mouth of the Basin postponed indefinitely due to Belt Pkwy Bridge damage.	-

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 ball field

Work Performed During This Quarter

Construction

- Completed soccer fields.
- Continued working on comfort stations.
- Continued masonry and roofing work for above ground buildings.
- Continued installing belt conveyor system, bar screens and sluice gates.
- Completed the pump out of the basement area that was subjected to flooding during a major storm that occurred on September 8, 2004. Started an evaluation of the mechanical, HVAC and electrical equipment damaged during this major rain event that caused flooding and damage to the facility and has caused a delay in construction completion.

Missed Milestones

- A written notice of a “force majeure” event was submitted to DEC on September 24, 2004. This event has effected 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. This breach occurred due to the enormous and unprecedented pressure against the bulkhead. This rain event caused widespread disruptions within the City including severe street and highway flooding and disruption of subway service due to flooding of stations and tunnels. 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.

Anticipated Activities for Next Quarter

- Continue working on comfort stations and interior of above ground buildings
- Continue to evaluate the damage to the equipment from the flooding event.
- Continue to work on the belt conveyors, bar screens and sluice gates.

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:	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. Contract change orders for additional work are in progress.

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 Basin, which are located in the northeast portion of Jamaica Bay. There are several different recommendations that are being advanced in this facility plan

- 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 discharges that are currently occurring in those two communities which 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.
- Destratification Facility – Installation of a permanent diffused-air bubble mixing system at Shellbank Basin. The system is targeted 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 a operating pilot facility, which has produced positive water and air quality results for the past 5 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

- The ULURP application for the siting and property acquisition for the permanent Shellbank Basin Destratification Facility was clocked-in to NYC Department of City Planning (DCP) and is awaiting certification.

- The ULURP application for the Warnerville Pumping Station has been certified. To obtain full approval of the ULURP, meetings were held with Queens Community Board 13 public and the Borough President of Queens, Helen Marshall.
- As an alternate to constructing an additional 50 mgd of treatment capacity at the Jamaica WPCP, an analysis of a CSO storage tunnel that would provide an equivalent level of CSO capture as the proposed plant expansion was initiated.
- Continued the preparation and design of a drainage plan for southeast Queens.

Design

- A draft US Army Corps of Engineers Joint Permit Application for Tidal Wetlands and Long Island Wells was submitted by on December 22 and was subsequently approved by DEP for submittal to DEC. A meeting was held with NYCDPR to describe the need for the planned project disturbances and impacts along Brookville Boulevard, as well as, to show the location of the proposed wetland mitigation area on DPR's property.
- Continued to work on project plans and specifications for the final design of the Warnerville Pumping Station.

Construction

- Construction has not yet initiated for this project.

Missed Milestones

- There are no missed milestones.

Anticipated Activities for Next Quarter

Planning

- The ULURP application for the Destratification Facility is expected to be certified by DCP.

Design

- Submit 90% final design plans and specifications to DEP for the Warnerville Pumping Station for review and comment.
- Initiate final design of the regulator automation.

Table 10 – Jamaica Tributaries CSO Project

Plan Elements:	Meadowmere & Warnerville DWO Abatement	Expansion of Wet Weather Capacity of Jamaica WPCP	Destratification Demonstration	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 of New Technologies / Construct Permanent Facility	Develop drainage plan for storm sewer buildout	Provide automated regulators
Construction Cost:	$12.2 million	$120 million	$500,000	To be determined	To be determined
Status:	- Final Design 90% Complete - ULURP Application Certified.		- Preliminary Design Complete. - ULURP Application awaiting certification. Site acquisition process begins once ULURP is certified.	Drainage planning underway	Final Design to be Initiated during First Quarter of 2005

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

- For the Avenue V Pumping Station upgrade, efforts focused on finalizing plans and specifications to meet the upcoming milestone date for final design completion.
- Building permits were issued for the rehabilitation of the main building, the construction of the generator building and the construction of the network protection structure.
- The New York City Art Commission accepted the additional emergency generator buildings and network protection structure.
- DEP is currently negotiating with the New York City Parks Department for permission to install the force mains adjacent to the Belt Parkway. The final design for the force main work is approximately 70% complete.

Missed Milestones

- There are no missed milestones.

Anticipated Activities for Next Quarter

- Submit, as required by the Order, final design plans and specifications to DEC and NYS Environmental Facilities for the Avenue V Pumping Station Upgrade.
- Complete NYC Law Review of specifications and prepare bid documents.

Table 11 – Coney Island Creek CSO Project

	Contracts PS-79G, H, P, E	*Contract PS-79F*
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:	$38,244,000	$67,700,000
Status:	Final Design – 98% Complete	Final Design – 70% Complete
Other Issues:	Relocation of station personnel during construction; protection of existing utilities near new construction Lack of documented legal usage of pumping station site;	Routing of force main along parkland; Routing of force main in vicinity of Fort Hamilton; Selective replacement of water and sewer utilities along route; possible seawall/ promenade improvements

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 to raise DO concentrations to a minimum of 1.0 mg/l. 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

Facility Planning

- Work on the Phase II Environmental Site Assessment was performed for the site proposed for the off-line storage tank located at the intersection of Johnson and Morgan Avenues including environmental borings and groundwater sampling.

Design

- The milestone for Final Design Completion Including CPM analysis of Aeration Zone I was met in December 2004. DEP certified completion of this milestone in a letter to DEC dated December 17, 2004. Plans and specifications including CPM analysis were also submitted to NYS Environmental Facilities Corporation.
- DEP law review of the Final Design of the Phase I Aeration Facility continued.

Missed Milestones

- There are no missed milestones.

Anticipated Activities for Next Quarter

- Review results of Phase II Environmental Site Assessment for the off-line storage tank and incorporate into the Environmental Assessment Statement.
- Complete NYC Law Review of specifications and prepare bid documents for Phase I Aeration Facility.

Table 12 – Newtown Creek CSO Project

Plan Elements:	Maximize flow through Morgan Ave. Interceptor	Phase I 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:	$4,000,000*	$8,000,000	$213,000,000
Status:	Facility plan elements for modifications to regulator and routing of the relief sewer have been completed and included in an Updated Facility Plan Draft Report. Modeling of the interceptors was performed to determine the size and operation of the throttling gate. Coordination with the WPCP design team is continuing.	Final design is complete.	Siting within English Kills was rejected by DEC. Identified preferred site at intersection of Johnson and Morgan Avenues after re-evaluation of siting alternatives. Draft ULURP application submitted to DEP. Additional DEP comments to the EAS have been received and are being incorporated. Phase I Environmental Site Assessment and Phase II Scope of Work and HASP have been approved by DEP. Drilling and Laboratory contracts were awarded and environmental borings and groundwater sampling completed. Preliminary plan and profile drawings and preliminary equipment sizing prepared for construction of tank at preferred location. Final Facility Plan Draft Report Submitted to DEP and forwarded to the DEC.
Other Issues:	Requires coordination with WPCP planning and design requirements	Phase II for the lower English Kills, the East Branch and Dutch Kills will follow.	Site approval (ULURP) and acquisition of property required. **As allowed by the Order, the current plan is subject to modifications by the Waterbody/Watershed Facility Plan**.

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 and playground 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, the construction of the 3 MG CSO supply/storage conduit along Waters Place between the diversion chamber and the 9 MG CSO storage tank, and the rehabilitation of the existing tide gate chamber located at CSO Outfall HP-014. Phase II includes construction of the 9 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

- 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.

Design

- 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.

- Design of Phases I and II continued.

Construction

- Construction has not yet been initiated.

Missed Milestones

- There are no missed milestones.

Anticipated Activities for Next Quarter

- Site acquisition negotiations between DCAS and DASNY will continue.
- Design of Phases I and II will continue. The 35 percent complete contract documents for both phases are projected to be submitted to the DEP for review in March 2006.

Table 13 – Westchester Creek CSO Project

Plan Elements:	Westchester Creek CSO Supply/Storage Conduit, CSO Storage Tank and Little League Amenities
Location:	Bronx Psychiatric Center Campus, and along Eastchester Road and Waters Place in the Bronx
Actions:	Design and construction of an underground CSO storage tank with a capacity of 12 MG (including the storage capacity within the supply/storage conduit) to provide abatement at CSO Outfall HP-014 on Westchester Creek; design and construction of an operations building; design and construction of amenities for the Bronxchester and Van Nest Little Leagues
Cost:	$386,000,000
Status:	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
Other Issues:	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 Sheraton Expressway and serves a drainage area of approximately 2,661 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 modified facilities plan remained under review by the DEC.
- Preparation of a revised EAS and ULURP Application was initiated to delete all references to the NYSDOT Bronx River Greenway Project. This EAS and ULURP Application are required in order to finalize the land swaps between the DEP, NYCDPR, NYSDOT, NYCDOT and MTA.

Design

- The preliminary design report presenting recommendations for the floatables control facilities proposed for CSO Outfalls HP-004, HP-007 and HP-009 remained under review by the DEP. This report will be finalized following meetings with the NYCDPR and NYSDOT to discuss the recommended facilities.

Construction

- Construction has not yet been initiated.

Missed Milestones

- There are no missed milestones.

Anticipated Activities for Next Quarter

- DEC will continue to review the modified facilities plan.
- The EAS and ULURP Application for the floatables control facilities, proposed for CSO Outfalls HP-004, HP-007 and HP-009, will be initiated following meetings with the DEP and DCP.

- The preliminary design report presenting recommendations for the floatables control facilities, proposed for CSO Outfalls HP-004, HP-007 and HP-009, will be finalized. The final report is projected to be submitted to the DEP in the next quarter.
- The revised EAS and ULURP Application will be completed and submitted to the DEP in the next quarter for review.

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 at CSO Outfalls HP-004, HP-007 and HP-009
Cost:	$12,330,000
Status:	Modified facilities plan under review by DEC; construction of 4 MG CSO storage facility deleted from modified CSO facilities plan; preliminary design report for floatables control facilities for CSO Outfalls HP-004, HP-007 and HP-009 under review by DEP
Other Issues:	Modified facilities plan needs to be approved; EAS and ULURP Application for floatables control facilities at CSO Outfalls HP-004, HP-007 and HP-009 need to be prepared, certified and approved; preliminary design report for floatables control facilities needs to be finalized and final design initiated

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 233rd 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 NYCDPR. 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

Planning

- A planning-level investigation was performed in October 2004, which resulted in the southern 4 MG CSO storage facility to provide abatement at CSO Outfall HP-023 being changed from a CSO storage conduit to a CSO storage tank.

Design

- Preliminary design of Phases I and II continued.

Construction

- Construction has not yet been initiated.

Missed Milestones

- There are no missed milestones.

Anticipated Activities for Next Quarter

- Design of Phases I and II will continue. The 35 percent complete contract documents for both phases are scheduled to be submitted to the DEP for review in late March 2005.

Table 15 – Hutchinson River CSO Project

Plan Elements:	Hutchinson River CSO Storage Facilities
Location:	City-owned property at southern end of Conner Street adjacent to Hutchinson River; privately-owned property along Hutchinson Avenue adjacent to Hutchinson River
Actions:	Design and construction of a 4 MG CSO storage tank and a 3 MG CSO storage tank to provide abatement at CSO Outfalls HP-023 and HP-024, respectively; rehabilitation of existing CSO Outfalls HP-023 and HP-024
Cost:	$180,500,000
Status:	Preparation of EAS and ULURP Application is being coordinated with the CSO Long-Term Control Plan; preliminary 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 26th 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 5 Phase plan for the 26th Ward tributaries includes: Phase I includes cleaning of sewers in the 26th Ward drainage area and interim dredging of the head-end of Hendrix St Canal, Phase II includes dredging of the CSO sediment mounds in FreshCreek, Hendrix St. Canal and Spring Creek to remove accumulated sediment, Phase III includes development of waterbody/watershed plans for the 26th Ward tributaries under the Citywide Long Term Control Plan for CSO, Phase IV includes and expansion of the wet weather capacity of the 26th Ward WPCP by 50 mgd and Phase V includes implementation, if needed, of structural CSO abatement facilities.

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 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

Planning

- Began preparing a sampling plan to examine the sediment mounds in Fresh Creek, Hendrix St. Canal and Spring Creek
- Initiated discussions with bathymetric survey subcontractors to perform new surveys in support of the dredging effort.
- Began drafting an amended Modified CSO Facility Plan for Jamaica Bay

Construction

- Construction activities at the Spring Creek Auxiliary WPCP upgrade.

Missed Milestones

- There are no missed milestones.

Anticipated Activities for Next Quarter

- Complete new bathymetric surveys of the Canal
- Develop and submit sediment sampling plan and protocol.
- Submit to DEC of an amended Modified CSO Facility Plan for Jamaica Bay.

Table 16 – Jamaica Bay CSO Project

Plan Elements:	Dredging	Cleaning of Certain Combined Sewers	Expansion of 26th Ward WPCP Capacity
Location:	Phase I- Interim dredging of Hendrix Street Canal Phase II- dredging of CSO mounds in Fresh Creek, Hendrix St. Canal and Spring Creek	Phase I-Portions of sewers in Williams, Hegeman and Flatlands Avenues	Phase IV- 26th Ward WPCP, Brooklyn
Actions:	City is local sponsor on the Jamaica Bay Ecosystem Restoration Project	Contract Documents Complete	Increase wet weather capacity by 50 mgd
Project Cost:	Phase I $3.75 million Phase II-$19 million (estimate from 2003 Facility Plan)	$4 Million	TBD
Status:	Discussions with the USACOE regarding dredging of the head ends of the 26th Ward tributaries and the Ecosystem Restoration Program	On Schedule	Final Design yet to be Initiated
Other Issues:	-		

3.13. Citywide Comprehensive Floatables Plan

Work Performed During This Quarter

- The work related to the Comprehensive Citywide Floatables Control Abatement Plan Project is now been shifted to the CSO Long Term Control Plan (LTCP) Project.
- The milestone for submitting the Modified Plan for the Citywide Comprehensive Floatables Project was met in December 2004. DEP certified completion of this milestone in a letter to DEC dated December 28, 2004. A copy of the report was also submitted to NYS Environmental Facilities Corporation.

Missed Milestones

- There are no missed milestones.

Anticipated Activities for Next Quarter

- Complete the transition of all Comprehensive Citywide Floatables Control work to the CSO LTCP Project.

4.0. Compliance Status

4.1. Unresolved Delays

4.2. Compliance Charts

The following table summarizes the milestone dates developed in the draft Consent Order and updates available through December 2004:

Table 17 – Consent Order Milestone Dates

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
I. Alley Creek CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Approvable Additional Modified Facility Plan Report	-	Feb. 2004	100
3. Submit Form 2A SPDES Application	-	June 2003	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Alley Creek Waterbody / Watershed Facility Plan Report	July 2004	June 2007	10
2. Submit Approvable East River Waterbody / Watershed Facility Plan Report	-	June 2007	-
C. Outfall and Sewer System Improvements			
1. Initiate Final Design	May 1996	-	100
2. Final Design Completion Including CPM Analysis	-	Mar. 2002	100
3. Notice to Proceed to Construction	Dec. 2002	-	100
4. Construction Completion	-	Dec. 2006	49
D. CSO Retention Facility			
1. Initiate Final Design	May 1996	-	100
2. Final Design Completion Including CPM Analysis	-	Dec. 2005	80
3. Notice to Proceed to Construction	Dec. 2006	-	-
4. Construction Completion	-	Dec. 2009	-
E. Drainage Basin Specific LTCPs			

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
1. Submit Approvable Drainage Basin Specific LTCP for Alley Creek	-	6 mos. after approval of I.B.1.	-
2. Submit Approvable Drainage Basin Specific LTCP for East River	-	6 mos. after approval of I.B.2.	-
II. Outer Harbor CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Additional Modified Facility Plan Report	-	Feb. 2004	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Open Waters Waterbody / Watershed Facility Plan Report	-	June 2007	-
C. Regulator Improvements - Fixed Orifices			
1. Initiate Final Design	Jan. 2004	-	100
2. Final Design Completion Including CPM Analysis	-	April 2005	90
3. Notice to Proceed to Construction	Feb. 2006	-	-
4. Construction Completion	-	July 2008	-
D. Regulator Improvements – Automation			
1. Initiate Final Design	Feb. 2005	-	-
2. Final Design Completion Including CPM Analysis	-	Nov. 2006	-
3. Notice to Proceed to Construction	Nov. 2007	-	-
4. Construction Completion	-	June 2010	-
E. Port Richmond Throttling Facility			
1. Initiate Final Design	June 2004	-	100
2. Final Design Completion Including CPM Analysis	-	Aug. 2005	70
3. Notice to Proceed to Construction	June 2006	-	-
4. Construction Completion	-	Dec. 2008	-
F. In-Line Storage			
1. Initiate Final Design	July 2005	-	-
2. Final Design Completion Including CPM Analysis	-	Nov. 2006	-
3. Notice to Proceed to Construction	Aug. 2007	-	-

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
4. Construction Completion	-	Aug. 2010	-
G. Submit Approvable Drainage Basin Specific LTCP for Open Waters	-	Jan. 2008	-
III. Inner Harbor CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Additional Modified Facility Plan Report	-	Feb. 2004	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Gowanus Canal Waterbody / Watershed Facility Plan Report	-	June 2007	80
C. Regulator Improvements - Fixed Orifices			
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	90
D. Regulator Improvements – Automation			
1. Initiate Final Design	Feb. 2005	-	-
2. Final Design Completion Including CPM Analysis	-	Nov. 2006	-
3. Notice to Proceed to Construction	Nov. 2007	-	-
4. Construction Completion	-	June 2010	-
E. In-Line Storage			
1. Initiate Final Design	July 2005	-	-
2. Final Design Completion Including CPM Analysis	-	Nov. 2006	-
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	-
IV. Paerdegat Basin CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Additional Modified Facility Plan Report	Feb. 2004	-	100

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
3. Submit Form 2A SPDES Application	-	July 2002	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Paerdegat Basin Waterbody / Watershed Facility Plan Report	-	Mar. 2003	100
C. Influent Channel			
1. Initiate Final Design	Oct. 1994	-	100
2. Final Design Completion Including CPM Analysis	-	Mar. 1997	100
3. Notice to Proceed to Construction	Feb. 1999	-	100
4. Construction Completion	-	Feb. 2002	100
D. Foundations and Substructures			
1. Initiate Final Design	Oct. 1994	-	100
2. Final Design Completion Including CPM Analysis	-	Aug. 2001	100
3. Notice to Proceed to Construction	June 2002	-	100
4. Construction Completion	-	Dec. 2006	86
E. Structures and Equipment			
1. Initiate Final Design	Oct. 1994	-	100
2. Final Design Completion Including CPM Analysis	-	Nov. 2004	100
3. Notice to Proceed to Construction	Sept. 2005	-	-
4. Construction Completion	-	Aug. 2011	-
F. Submit Approvable Drainage Basin Specific LTCP for Paerdegat Basin	-	Nov. 2005	-
V. Flushing Bay CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Completed	100
2. Submit Additional Modified Facility Plan Report	-	Feb. 2004	100
3. Submit Form 2A SPDES Application	-	June 2003	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Flushing Bay Waterbody / Watershed Facility Plan Report	July 2004	June 2007	10
2. Submit Approvable Flushing Creek Waterbody / Watershed Facility Plan Report	July 2004	June 2007	10

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
C. CS4-1 Reroute and Construct Effluent Channel			
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
D. CS4-2 Relocate Ballfields			
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
E. CS4-3 Storage Tank			
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
F. CS4-4 Mechanical Structures - Initiate Final Design			
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	90
G. CS4-5 Tide Gates			
1. Initiate Final Design	Aug. 1998	-	100
2. Final Design Completion Including CPM Analysis	-	Nov. 1999	100
3. Notice to Proceed to Construction	Dec. 2000	-	100
4. Construction Completion	-	Apr. 2002	100
H. CD-8 Manual Sluice Gates			
1. Final Design Completion Including CPM Analysis	-	May 2003	100
2. Notice to Proceed to Construction	Feb. 2004	-	100
3. Construction Completion	-	June 2005	100
I. Drainage Basin Specific LTCPs			

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
1. Submit Approvable Drainage Basin Specific LTCP for Flushing Bay	-	6 mos. after apprvl. of V.B.1.	-
2. Submit Approvable Drainage Basin Specific LTCP for Flushing Creek	-	6 mos. after apprvl. of V.B.2.	-
VI. Jamaica Tributaries CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	April 2003	100
2. Submit Additional Modified Facility Plan Report	-	Feb. 2004	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Bergen Basin Waterbody / Watershed Facility Plan Report	-	June 2007	-
2. Submit Approvable Thurston Basin Waterbody / Watershed Facility Plan Report	-	June 2007	-
C. Meadowmere & Warnerville DWO Abatement			
1. Initiate Final Design	Jan. 2004	-	100
2. Final Design Completion Including CPM Analysis	-	May 2005	90
3. Notice to Proceed to Construction	Mar. 2006	-	-
4. Construction Completion	-	Mar. 2009	-
D. Expansion of Wet Weather Capacity of Jamaica WPCP			
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	-
E. Destratification Facility			
1. Initiate Final Design	Jan. 2006	-	-
2. Final Design Completion Including CPM Analysis	-	Oct. 2006	-
3. Notice to Proceed to Construction	Aug. 2007	-	-
4. Construction Completion	-	Dec. 2008	-
F. Laurelton and Springfield Blvd.			

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
1. Submit Drainage Plan for Storm Sewer Buildout	-	Jan. 2008	20
G. Regulator Automation			
1. Initiate Final Design	Feb. 2005	-	-
2. Final Design Completion Including CPM Analysis	-	Nov. 2006	-
3. Notice to Proceed to Construction	Nov. 2007	-	-
4. Construction Completion	-	June 2010	-
H. Drainage Basin Specific LTCPs			
1. Submit Approvable Drainage Basin Specific LTCP for Bergen Basin	-	Aug. 2012	-
2. Submit Approvable Drainage Basin Specific LTCP for Thurston Basin	-	Aug. 2012	-
VII. Coney Island Creek CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Apr. 2003	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Coney Island Creek Waterbody / Watershed Facility Plan Report	July 2004	June 2007	10
C. Avenue V Pumping Station Upgrade			
1. Initiate Final Design	April 1998	-	100
2. Final Design Completion including CPM Analysis	-	Jan. 2005	98
3. Notice to Proceed to Construction	Nov. 2005	-	-
4. Construction Completion	-	Apr. 2011	-
D. Avenue V Force Main			
1. Initiate Final Design	Apr. 1998	-	100
2. Final Design Completion Including CPM Analysis	-	Sept. 2006	70
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	-
VIII. Newtown Creek CSO			
A. Facility Plan Development			

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
1. Submit Modified Facility Plan Report	-	Oct. 2003	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Newtown Creek Waterbody / Watershed Facility Plan Report	-	June 2007	-
C. Aeration Zone I			
1. Initiate Final Design	Mar. 2001	-	100
2. Final Design Completion Including CPM Analysis	-	Dec. 2004	100
3. Notice to Proceed to Construction	Dec. 2005	-	-
4. Construction Completion	-	Dec. 2008	-
D. Aeration Zone II			
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	-
E. Relief Sewer / Regulator Modification			
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	-
F. Throttling Facility			
1. Initiate Final Design	Dec. 2005	-	-
2. Final Design Completion Including CPM Analysis	-	June 2008	-
3. Notice to Proceed to Construction	June 2009	-	-
4. Construction Completion	-	Dec. 2012	-
G. CSO Storage Facility			
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	-	-
5. Construction Completion	-	Dec. 2022	-

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
H. Submit Approvable Drainage Basin Specific LTCP for Newtown Creek	-	Feb. 2016	-
IX. Westchester Creek CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Apr. 2003	100
2. Submit Form 2A SPDES Application	-	June 2009	-
B. Comprehensive Watershed Planning			
1. Submit Approvable Westchester Creek Waterbody / Watershed Facility Plan Report	July 2004	June 2007	10
C. Phase I (Influent Sewers)			
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	-
D. CSO Storage Facility			
1. Notice to Proceed to Construction	Dec. 2015	-	-
2. Construction Completion	-	Dec. 2022	-
E. Submit Approvable Drainage Basin Specific LTCP for Westchester Creek	-	Feb. 2016	-
X. Bronx River CSO			
A. Facility Plan Development			
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. Comprehensive Watershed Planning			
1. Submit Approvable Bronx River Waterbody / Watershed Facility Plan Report	July 2004	June 2007	40
C. Floatables Control			
1. Initiate Final Design	Jan. 2006	-	100
2. Final Design Completion Including CPM Analysis	-	July 2008	25
3. Notice to Proceed to Construction	June 2009	-	-

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
4. Construction Completion	-	June 2012	-
D. Submit Approvable Drainage Basin Specific LTCP for Bronx River	-	Aug. 2009	-
XI. Hutchinson River CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	July 2003	100
2. Submit Form 2A SPDES Application	-	June 2009	-
B. Comprehensive Watershed Planning			
1. Submit Approvable Hutchinson River Draft Waterbody / Watershed Facility Plan Report	July 2004	June 2007	10
C. Phase I of the Storage Facility			
1. Initiate Final Design	Apr. 2005	-	-
2. Final Design Completion Including CPM Analysis	-	June 2010	-
3. Notice to Proceed to Construction	June 2011	-	-
4. Construction Completion	-	June 2015	-
D. Future Phases			
1. Notice to Proceed to Construction	Dec. 2016	-	-
2. Construction Completion	-	Dec. 2023	-
E. Submit Approvable Drainage Basin Specific LTCP for Hutchinson River	-	Feb. 2017	-
XII. Jamaica Bay CSO			
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Dec. 2003	100
B. Comprehensive Watershed Planning			
1. Submit Approvable Jamaica Bay Waterbody / Watershed Facility Plan Report	-	June 2007	-
2. Submit Approvable Creek Waterbody / Watershed Facility Plan Report	-	June 2007	-
3. Submit Approvable Fresh Creek Waterbody / Watershed Facility Plan Report	-	June 2007	-
4. Submit Approvable Hendrix Creek Waterbody / Watershed Facility Plan Report	-	June 2007	-

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
C. Spring Creek AWPCP Upgrade			
1. Initiate Final Design	Apr. 1998	-	100
2. Final Design Completion Including CPM Analysis	-	Feb. 2002	100
3. Submit Form 2A SPDES Application	-	June 2003	100
4. Notice to Proceed to Construction	Mar. 2003	-	100
5. Construction Completion	-	Apr. 2007	50
D. 26th Ward Drainage Area Sewer Cleaning and Evaluation			
1. Initiate Final Design	Jan. 2007	-	100
2. Final Design Completion Including CPM Analysis	-	June 2007	95
3. Notice to Proceed to Construction	June 2008	-	-
4. Construction Completion	-	June 2010	-
E. Hendrix Creek Dredging			
1. Initiate Final Design	Jan. 2007	-	-
2. Final Design Completion Including CPM Analysis	-	June 2007	-
3. Notice to Proceed to Construction	June 2008	-	-
4. Construction Completion	-	June 2010	-
F. 26th Ward Wet Weather Expansion			
1. Initiate Final Design	June 2006	-	-
2. Final Design Completion Including CPM Analysis	-	June 2010	-
3. Submit Form 2A SPDES Application	-	June 2009	-
4. Notice to Proceed to Construction	June 2011	-	-
5. Construction Completion	-	Dec. 2015	-
G. Drainage Basin Specific Long Term Control Plans			
1. Submit Approvable Drainage Basin Specific LTCP for Jamaica Bay	-	Aug. 2012	-
2. Submit Approvable Drainage Basin Specific LTCP for Spring Creek	-	Aug. 2012	-
3. Submit Approvable Drainage Basin Specific LTCP for Fresh Creek	-	Aug. 2012	-
4. Submit Approvable Drainage Basin Specific LTCP for Hendrix Creek	-	Aug. 2012	-
XIII. Citywide Comprehensive Floatables Plan			

ITEM DESCRIPTION	START DATE	DUE DATE	% COMPLETE
A. Facility Plan Development			
1. Submit Modified Facility Plan Report	-	Dec. 2004	100
XIV. Submit Approvable City-Wide LTCP			
	-	Dec 2017	-

5.0. Community Relations

5.1. Activities During the Reporting Period

The fifth Bronx River Stakeholder Team meeting was held on Wednesday, November 17, 2004, at the Office of Bronx Community Board 12 in the Bronx, New York. The meeting was held to present the draft Bronx River Waterbody/Watershed Facility Plan that was submitted to DEC in March of 2004.

5.2. Activities Anticipated for Next Quarter

Develop a work plan for public participation as DEP progresses toward its Drainage Specific LTCPs and its Citywide LTCP. The work plan will consider that waterbody/watershed plans that are being developed will support the Long Term Control Plan process and therefore, must be consistent with EPA's CSO Control Policy which requires public participation and input to the process.

6.0. Key Personnel Changes

At this time, there are no major changes in key project personnel to report.

7.0. Other Issues

At this time, there are no other issues identified that may materially affect the work required by this Order.

8.0. Status of LTCP Development

The reporting on the progress of the Drainage Basin Specific and City-Wide LTCP development according to the Order 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.

Since this quarterly report provides the status for the 4th Quarter of 2004, no reporting on this issue is included in this report.