City of New York Department of Environmental Protection Bureau of Wastewater Treatment

CSO Order on Consent DEC Case # CO2-20110512-25, Modification to CO2-20000107-8

QUARTERLY PROGRESS REPORT

Second Quarter 2015 (April 1 to June 30, 2015)

July 30, 2015

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1.0 Executive Summary

The City of New York (City), the New York City Department of Environmental Protection (DEP), and the New York State Department of Environmental Conservation (DEC) entered into the Combined Sewer Overflow Order on Consent (DEC Case # CO2-20000107-8) on January 14, 2005, as modified April 14, 2008, September 3, 2009, March 8, 2012, and March 26, 2015 (collectively, the "CSO Order"). Pursuant to the Order, the City is required to submit quarterly status reports to DEC (Quarterly Reports) describing actions taken toward achieving compliance with the Order during the prior three-month period. This Quarterly Report reports on DEP's actions taken between April 1, 2015 and June 30, 2015 toward complying with the Order's milestones.

Critical Events This Quarter

The following critical events occurred this quarter:

- 1. On April 14, 2015 DEP sent supplemental documentation for both the Hutchinson River and Westchester Creek LTCPs in response to DEC's comments.
- 2. On April 13, 2015 DEC approved DEP's certification of construction completion for the III.G.2 Gowanus Pump Station Reconstruction and III.F.2 Flushing Tunnel Modernization.
- Bid opening for VIII.I. Enhanced Aeration in East Branch and Upper Newtown Creek contract (CSO-NC-3, East Branch Aeration) was on April 13, 2015. The Low Bidders are currently under review by the agency and the City for award. On April 29, 2015 DEP requested a modification to the VIII.I.3 NTP for Newtown Creek CSO – Enhanced Aeration in East Branch and Upper Newtown Creek from June 2015 to October 2015.
- 4. On April 22, 2015 DEP certified XII.I.7. Phase 2 Design Initiation for Jamaica Bay 26th Ward HLSS.
- 5. On April 30, 2015 DEP requested a modification to the milestone date for IX.F.2. Pugsley Creek Interceptor – Final design completion from June 2015 to December 2015.
- 6. On April 30, 2015 DEP submitted the Green Infrastructure Annual Report.
- 7. On April 30, 2015 DEP certified the XII.K.3 Jamaica Bay 26th Ward WPCP Low Level Main Sewage Pumps construction completion.
- 8. On May 01, 2015 DEP submitted Spring Creek AWWTP CSO Disinfection Demonstration Study.
- 9. On May 04, 2015 DEC sent comments for the V.J.5 Flushing Bay, Tallman Island WPCP and associated sewer system Flushing Interceptor Engineering Report and Milestone.
- 10. On May 06, 2015 DEP submitted supplemental documentation for the Alley Creek and Little Neck Bay LTCP.
- 11. DEP received the final permits for the Flushing Bay Dredging project from both USACE (May 4, 2015) and DEC (May 14, 2015).
- 12. On May 15, 2015 DEP received comments from DEC on the XII.I.3 Jamaica Bay, 26th Ward HLSS Phase 1 design completion.
- 13. On May 22, 2015 DEP submitted supplemental documentation for the Flushing Bay LTCP.

- 14. On May 29, 2015 DEP submitted XII.K.6 Notice to Proceed to construction for High Level Main Sewage Pumps for 26th Ward Preliminary Treatment Reliability Improvements.
- 15. On May 29, 2015 DEP submitted V.K.3 Notice to Proceed to Construction for Newtown Creek Bending Weir/Floatables Control.
- 16. On June 04, 2015 DEC sent comments regarding the Alley Creek LTCP Spring Creek CSO chlorination demonstration project.
- 17. On June 8, 2015, DEP issued the Invitation for Bid for the Westchester Creek CSO Modifications Project contract (CSO-WCM-29). The pre-bid conference was held on June 22, 2015.
- **18.** On June 10, 2015 DEC sent comments regarding the LTCP supplemental documentations for Hutchinson River and Flushing Creek.
- 19. On June 30, 2015 DEP submitted the X.E Bronx River LTCP.
- 20. On June 15, 2015 DEP submitted the proposal to decommission the III.E Inner Harbor In-Line Storage.
- 21. On June 30, 2015 DEP submitted the VIII.J.2 Newtown Creek Enhanced Aeration in Dutch Kills and Lower Newtown Creek final design completion including CPM analysis.
- 22. On June 30, 2015 DEP submitted the Post Construction Compliance Monitoring and CSO Retention Facility Overflow Summary for Alley Creek, Flushing Bay, Paerdegat Basin and Spring Creek waterbodies for 2014.
- 23. On June 30, 2015 DEP submitted the III.I Gowanus Canal LTCP.

Major Actions This Quarter

DEP continued to make progress in the planning, design and construction of its CSO facilities during this quarter, as documented in this report. As required by the Order, DEP and DEC held a Quarterly Progress Meeting on **June 10, 2015** at **Hazen and Sawyer's Offices in New York, NY,** to discuss issues related to the Order and to review milestones met during the last quarter.

Table 1 presents the milestones that occurred this quarter. For each milestone listed in Table 1 below, either met or postponed, DEP submitted timely written notification to DEC.

Major Actions Next Quarter

The following major actions are expected to occur between July and September 2015:

The next Quarterly Progress Meeting between DEC and DEP is to be determined. Table 2 presents the status of the milestones for next quarter and Table 3 provides a list of outstanding modification requests and force majeure notices.

| LOCATION / PROJECT AREA | ITEM DESCRIPTION | MILESTONE DATE | ACTION REQUIRED | STATUS |
|----------------------------|--|-------------------|--------------------------------------|------------------------------|
| Jamaica Bay | 26 th Ward HLSS – Phase 2 Initiate Design | April 1, 2015 | Design Initiation | Certified on March 31, 2015 |
| Jamaica Bay | 26 th Ward WPCP Wet Weather Stabilization – Construction Completion for Low Level Main Sewage Pumps | April 2015 | Construction Completion | Certified April 3, 2015 |
| Jamaica Bay | 26 th Ward WPCP Wet Weather Stabilization – NTP construction for High Level Main Sewage Pumps | June 2015 | Construction Completion | Certified on May 29, 2015 |
| Bronx River | Submit Approvable Drainage Basin Specific LTCP for Bronx River | June 2015 | Submitted | Certified June 30, 2015 |
| Inner Harbor | Submit Approvable Drainage Basin Specific LTCP for Gowanus Canal | June 2015 | Submitted | Certified June 30, 2015 |
| Newtown Creek | Enhanced Aeration in Dutch Kills and Lower NC – Final Design Completion including CPM analysis | June 2015 | Final Design Completion | Certified June 30, 2015 |
| Newtown Creek | Bending Weis/Floatables Control | May 2015 | Notice to Proceed to Construction | Issued May 29, 2015 |

Table 1 – Milestones Certified This Quarter (Apr - Jun 2015)

Table 2 – Milestones Next Quarter (July – Sep 2015)

| LOCATION / PROJECT AREA | ITEM DESCRIPTION | MILESTONE DATE | ACTION REQUIRED | STATUS |
|-------------------------------|--|-------------------|--------------------|--|
| Flushing Bay | Tallman Island Whitestone Interceptor – Construction Completion | Jul 2015 | Complete | Certified Complete by DEP on Dec 12, 2014 |

| LOCATION/ PROJECT AREA | ITEM DESCRIPTION | ACTION(S) | REASON FOR ACTION(S) | MILESTONE DATE | STATUS |
|------------------------------|---|---|--|---|--|
| Inner Harbor | Gowanus Canal Dredging | Notice of Force Majeure Mar 7, 2014 | Gowanus Canal Superfund Record of Decision and analytical data | NTP and Construction Completion | Force Majeure granted on Apr 11, 2014. Final decision as to completion pending. |
| Newtown Creek | Enhanced Aeration in East Branch and Upper Newtown Creek | Modification Request for October, 2015 | Awaiting ULURP review completion | NTP June 2015 | ULURP forecast to be complete September 2015 |
| Westcheste r Creek | Pugsley Creek Parallel Interceptor – Final Design Completion | Modification Request for December 2015 | Complexity of design requires redesign and increased scope | Final Design Completion June 2015 | Request under DEC review. |

Table 3 – Outstanding Modification Requests and Force Majeure Notices

2.0 Construction Contracts

The CSO 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. Table 4 below lists the construction contracts set forth in Appendix A of the 2012 modification of the Order that have been completed in fulfillment of its requirements. Table 5 below identifies, by percentage, the estimated amount of construction that has been performed on projects that are in progress.

| WATERBODY | ITEM DESCRIPTION | NOTICE TO PROCEED | CONSTRUCTION COMPLETION | CERTIFIED COMPLETION |
|------------------------|---|----------------------|----------------------------|-------------------------|
| Alley Creek | CSO Retention Facility | Dec 2006 | Dec 2009 | Mar 2011 |
| Paerdegat | Structures and Equipment | Sep 2005 | May 2011 | May 2011 |
| Basin | Dredging of Paerdegat Basin | Mar 2013 | Mar 2015 | Nov 2014 |
| Jamaica Tributaries | Destratification Facility | Sep 2010 | Mar 2012 | Mar 2012 |
| Coney Island | Avenue V Pumping Station Upgrade | Nov 2005 | Jun 2012 | Jun 2012 |
| Creek | Avenue V Force Mains | Jul 2007 | Jun 2012 | Jun 2012 |
| Newtown | Enhanced Aeration Lower English Kills | Apr 2013 | Mar 2014 | Recertified May 2014 |
| Creek | GI Demonstration | Oct 2012 | May 2013 | May 2013 |
| Bronx River | Floatables Control | Jun 2009 | Oct 18 2012 | Oct 2012 |
| Hutchinson River | GI Demonstration | Aug 2012 | Apr 2013 | Apr 2013 |
| Jamaica | Hendrix Creek Dredging | Feb 2010 | Feb 2012 | Oct 2011 |
| Bay | GI Demonstration 26 th Ward | Jun 2012 | Dec 2012 | Dec 2012 |
| Flushing Bay | Tallman Island – Whitestone Interceptor | Dec 2011 | July 2015 | Dec 2014 |
| Inner | Gowanus Flushing Tunnel Modernization | Feb 2010 | Feb 2015 | Feb 2015 |
| Harbor | Gowanus Pumping Station Reconstruction | Feb 2010 | Feb 2015 | Feb 2015 |

Table 4 – Completed Construction Contracts

| WATERBODY | ITEM DESCRIPTION | NOTICE TO PROCEED | CONSTRUCTION COMPLETION | PROJECTED COMPLETION | % OF TIME ELAPSED | % OF CONSTRUCTION COMPLETED ⁽¹⁾ |
|------------------|--|--------------------------|-----------------------------|-------------------------|-------------------------|--|
| Inner Harbor | Dredging of Gowanus Canal | TBD ⁽²⁾ | TBD ⁽²⁾ | TBD ⁽²⁾ | - | - |
| | Flushing Interceptor | TBD | TBD | - | - | - |
| T1 1 1 | Divert Low-Lying Sewers | Dec 2014 | Dec 2016 | Dec 2016 | 13% | 0% |
| Flushing Bay | Raise Weir BB-R02 | Jun 2014 | Dec 2016 | Dec 2016 | 30% | 0% |
| | Regulator Modifications | Dec 2015 | Jun 2018 | Jun 2018 | - | - |
| | Flushing Bay Dredging | Mar 2016 | TBD ⁽³⁾ | TBD ⁽³⁾ | - | - |
| Jamaica | Parallel 48-Inch Interceptor | Aug 2014 | Feb 2017 | Feb 2017 | 23% | 10% |
| Tributaries | Bending Weirs | Dec 2014 | Jun 2016 | Jun 2016 | 17% | 0% |
| | Enhanced Aeration East Branch, Upper Newtown Cr | Jun 2015 | Jun 2018 | Jun 2018 | - | - |
| Newtown Creek | Enhanced Aeration Dutch Kills, Lower Newtown Cr | Dec 2016 | Dec 2019 | Dec 2019 | - | - |
| | Bending Weirs/Floatables Control | May 2015 | Dec 2017 | Dec 2017 | 4% | 0% |
| Westchester | Modifications to CSO-29 & 29A | Dec 2015 | Dec 2019 | Dec 2019 | - | - |
| Creek | Pugsley Creek Parallel Interceptor | Jun 2016 | Dec 2019 | Dec 2019 | - | - |
| | 26 th Ward HLSS Phase 1 | Mar 2016 | Dec 2018 | Dec 2018 | - | - |
| | 26 th Ward HLSS Phase 2 | Mar 2018 | Dec 2020 | Dec 2020 | - | - |
| | 26 th Ward HLSS Phase 3 | Mar 2020 | Dec 2022 | Dec 2022 | - | - |
| Jamaica | 26 th Ward Low Level MSPs | Aug 2012 | Apr 2015 ⁽⁴⁾ | Apr 2015 | 97% | 100% |
| Bay | 26 th Ward , High Level MSP | June 2015 ⁽⁴⁾ | July 2018 ⁽⁴⁾ | Aug 2018 ⁽⁴⁾ | 25% | - |
| | 26 th Ward PSTs 1-5 | Jan 2016 ⁽⁴⁾ | Jul 19, 2020 ⁽⁴⁾ | Nov 2019 ⁽⁴⁾ | - | - |
| | Rockaway WWTP Conveyance | | Dec 2017 | Dec 2017 | - | - |
| WI WWTP | MSP Replacement | Mar 2015 | Jun 2017 | Jun 2017 | 0% | 0% |
| | Bar Screen | Dec 2014 | June 2018 | | | |

Table 5 – Ongoing and Upcoming Construction Contracts and their Status

Second Quarter, 2015

- (1) Percentage Construction Completion is tracked based on cost incurred.
- (2) By letter dated April 11, 2014, DEC agreed that the dredging project posed the potential to conflict with the proposed Superfund remedy outlined in the USEPA's Record of Decision for the Gowanus Canal. As such, while it determined that this circumstance constitutes a Force Majeure, DEC nevertheless deferred a final decision on the City's request to modify the Consent Order with respect to the dredging-related milestones.
- (3) Dredging; completion milestone to be submitted as part of the final JAP permit modification request (per the DEC DRAFT JAP permit).
- (4) Modifications to the CSO Order related to the Wards Island and 26th Ward WWTPs are **memorialized in a Consent Order** effective March 26, 2015.

3.0 Detailed Description of Work Performed

3.1. Inner Harbor CSO

The Inner Harbor CSO Facility Planning area consists of the drainage areas of the North River, Newtown Creek, and Red Hook WWTPs and their associated sewers and pumping stations. The receiving waters of the study area include the Lower East River, Hudson River, Upper New York Bay, and Gowanus Canal and Bay. Excluding projects already completed and milestones met, the Consent Order contemplates the following:

- Environmental dredging in approximately 825 feet of the head end of Gowanus Canal to a final water depth of 3.0 feet below mean lower low water.
- Gowanus Pumping Station reconstruction to improve operational reliability and redirect flow directly to the Columbia Street Interceptor via a new force main constructed within the Flushing Tunnel.
- Rehabilitation of the Gowanus Canal Flushing Tunnel System with the installation of a new pumping system with redundant, interchangeable pumps that will eliminate shutdowns during low tide and improve maintenance operations.
- The work in Inner Harbor CSO Facility Planning area also includes Area-wide green infrastructure contracts in Gowanus CSO Tributary Drainage Area (TDA), which will saturate the area with as many green infrastructure practices as possible to meet the milestones as outlined in the Order. The Green Infrastructure Program is discussed in Section 3.9 below.

Gowanus Canal was added to the US EPA Superfund National Priorities List (NPL) on March 2, 2010. On September 27, 2013, EPA issued the Record of Decision, which describes the factual and legal basis for the selected remedy for the contaminated sediments and source controls at the site.

Anticipated Design Activities for Next Quarter

- Environmental Dredging
 - No activities in the next quarter due to Force Majeure Extension of the milestone based upon DEC's determination that the project posed the potential to conflict with the proposed Superfund remedy outlined in the USEPA's Record of Decision for the Gowanus Canal.

Construction Work Performed During This Quarter

- Gowanus Pumping Station and Flushing Tunnel Modernization
 - Interim Oxygen Transfer System (OTS) There have been 109 anchors removed to date.
 G Contractor still needs to remove approximately 70 anchors remaining south of Carroll Street Bridge. No work was performed during this period. There was a hold on work through March 2015 due to USEPA installation of a DTS System cable down the center of the Canal which prohibited any activities that could potentially disturb the canal bottom sediment. Additionally, NYC DOT had indicated that the 3rd Street

Bridge would be inoperable until March 31, 2015. Removal of remaining anchors recommenced on April 27, 2015. Concrete anchor removal within the canal between STA 16+50 and 24+50 was completed on May 11, 2015. In total, 160 anchors were removed.

- On April 13th, 2015, DEC accepted DEP's Feb 27 certification of Construction completion for the Flushing Tunnel Modernization and Wastewater Pumping Station (WWPS) Reconstruction was achieved on December 24, 2014, sixty-six (66) days earlier than the modified date of February 28, 2015.

| | Dredging of Gowanus Canal | Gowanus Canal Pumping Station and Flushing Tunnel |
|----------------------|---|---|
| Contract ID | CSO-DRDG/DRG-GC | CSO-GC |
| Plan Elements | Dredging Gowanus Canal Head End | Rehabilitation of Pumping Station and Flushing Tunnel |
| Location | Gowanus Canal | Gowanus Pumping Station Property Brooklyn |
| Actions | Dredging in Gowanus Canal | Wastewater Pumping Station and Flushing Tunnel Pumping System upgrades |
| Construction Cost | \$13,100,000 (based on concept design) | \$160,334,214 |
| Status | Design on hold | Complete |
| Other Issues | Design on Hold | |

Table 6 – Inner Harbor CSO Projects

3.2. Flushing Bay CSO

The Flushing Bay CSO Facility Planning area includes the portions of the Tallman Island WWTP and the High Level Interceptor of the Bowery Bay WWTP drainage areas, associated sewers, and pumping stations that discharge to Flushing Bay and Flushing Creek in Queens. The Consent Order projects are constructed under contracts TI–WW-1, EE-DSGN-4, CS-FB-LLD, CS-FB-BWR, and CSO-DRDG, which respectively include the following items:

- Tallman Island Whitestone Interceptor certified complete on December 12, 2014
- Tallman Island Flushing Interceptor
- Diversion of low-lying sewers and raising of the weir at BB-R02
- Regulator Modifications
- Environmental dredging of Flushing Bay

The work in Flushing Bay CSO Facility Planning area also includes Area-wide green infrastructure contracts in Flushing Bay CSO Tributary Drainage Area (TDA), which will saturate the area with as many green infrastructure practices as possible to meet the milestones as outlined in the Order. For more details on the Green Infrastructure Program, see Section 3.9, below.

Design Work Performed During This Quarter

- Tallman Island Flushing Interceptor
 - Conceptual Design the conceptual design draft report was reviewed, finalized, submitted to DEC on March 23, 2015.
 - Structural Assessment- Consultant evaluated the inspection projects performed by SewerVue to date and submitted a letter recommending that DEP not move ahead with the structural assessment of the Ulmer Interceptor by SewerVue. This letter was forwarded to DEC on March 23, 2015.
- Divert Low-Lying Sewers
 - Contract registered January 9, 2015.
- Regulator Modifications
 - DEP responded to DEC's January 26, 2015 comments on March 11, 2015.
- Environmental Dredging
 - The final design phase of the project **is completed**; **the contract documents are in legal and contracts review.** DEP submitted to DPR a permit application to Perform Work on DPR Property on March 25, 2015. **DPR approval is pending.**
 - DEP received the final permits for the Flushing Bay Dredging project from both USACE (May 4, 2015) and DEC (May 14, 2015).

Construction Work Performed During This Quarter

- Tallman Island Whitestone Interceptor
 - Continued landscaping work at Powell's Cove Park
 - Maintained erosion and sediment control measures in wetland and adjacent areas.
 - DEP certified construction completion on December 12, 2014. DEC inspected the site on January 13, 2015 and accepted the certification on January 21, 2015.

Anticipated Design Activities for Next Quarter

- Tallman Island Flushing Interceptor
 - A CCTV/Sonar inspection will be performed to determine whether there has been any further structural deterioration of the pipe.
- Divert Low-Lying Sewers
 - Design services during construction (DSDC) to continue at DDC.
- Regulator Modifications
 - Advertise construction contract.
- Environmental Dredging
 - Prepare bid package for the Construction and Construction Management Contracts.

Anticipated Construction Activities for Next Quarter

- Divert Low-Lying Sewers
 - Contractor to start mobilization.

| | | | ising Day CSO 110j | | |
|------------------|---|--|---|--|--|
| | Tallman Island Whitestone Interceptor | Tallman Island Flushing Interceptor | Divert Low-Lying Sewers / Raise Weir BB-R02 | Regulator Modifications | Environmental Dredging of Flushing Bay |
| Contract ID | TI-WW-1 | TBD | CS-FB-LLD | CS-FB-BWR | CSO-DRDG DRG-FB |
| Plan Elements | New section of Whitestone Interceptor; Regulators 10, 10A and 13 | Address Flushing Interceptor sag in Ulmer Street | Divert Low Lying sewers in the vicinity of Bowery Bay WWTP. Raise the weir at regulator BB -02 | Bowery Bay High Level Interceptor regulator modifications at 10 regulators | Environmental Dredging |
| Location | From existing junction chamber at 11 th Ave / 130 th St to the WWTP, College Point, Queens | From MH 45 at Whitestone Expressway to MH 29 at Ulmer Street and 25 th Avenue | Regulator BB-02. Berrian Blvd and 19 th Ave between 43 rd St. and 45 th St. | Five of ten regulators along 108 th street, Ditmars Blvd and the LaGuardia Airport site | Proximate to CSO Outfalls BB006 and BB008 |
| Actions | | | | | Dredge bottom sediments to final depth of 4 ft. below MLLW |
| Cost | \$22,071,512 | TBD | \$5,610,000 | \$41,400,000 | \$38,800,000 (based on 100% Design) |
| Status | Construction Completed | TOC (PW- 088-03) issued for potential design activities described above | In Construction | Design Completed | Design Completed |
| Other Issues | FM submitted Nov 19 2012 (Superstorm Sandy) | | | | None |
| | Change | s from the previo | us reporting period are s | shown in bold. | |

Table 7 – Flushing Bay CSO Projects

3.3. Jamaica Tributaries CSO

The Jamaica Tributaries CSO Facility Planning area includes the drainage area of the Jamaica WWTP and its associated sewers and pumping stations. The receiving waters of the study area are Bergen, Thurston, Shellbank, and Hawtree Basins, which are located along the eastern shore of Jamaica Bay on either side of JFK International Airport. The Consent Order projects are constructed under contracts CSO-JT-SB, CS- JA-BBS, and CS-JA-BWR, which include the following items, respectively:

- The Destratification Facility, a permanent diffused-air bubble mixing system at Shellbank Basin designed to eliminate temperature stratification during the summer season which leads to poor water quality conditions in the basin, odors and marine life kills.
 - DEP Certified Construction Completion of the Destratification Facility on March 20, 2012, and DEC accepted the certification on July 23, 2012.
- A Parallel 48–inch sewer under the Belt Parkway to complement the existing 36-inch double barrel Belt Parkway crossing in the West interceptor.
- Bending Weirs at regulators J3 and J14 in the West Interceptor and J6 in the East Interceptor drainage area.

The work in Jamaica Tributaries CSO Facility Planning area also includes Area-wide green infrastructure contracts in Jamaica Tributaries CSO Tributary Drainage Area (TDA), which will saturate the area with as many green infrastructure practices as possible to meet the milestones as outlined in the Order. For more details on the Green Infrastructure Program, see Section 3.9, below.

Design Work Performed During This Quarter

- Parallel 48-inch Siphon/Interceptor
 - Continued design services during construction (DSDC).
- Bending Weirs
 - Commenced DSDC.

Construction Work Performed During This Quarter

- Parallel 48-inch Siphon/Interceptor
 - Continued mobilization, site preparation and obtaining necessary approvals.
- Bending Weirs
 - Contractor initiated mobilization.

Anticipated Design Activities for Next Quarter

Parallel 48-inch Siphon/Interceptor

- Continue DSDC.
- Bending Weirs
 - Continue DSDC.

Anticipated Construction Activities for Next Quarter

- Parallel 48-inch Siphon/Interceptor
 - Continue contractor mobilization and commence construction work.
- Bending Weirs
 - Continue contractor mobilization and commence construction work.

| | Destratification Facility | Parallel 48-inch Siphon / Interceptor | Bending Weirs |
|----------------------|---------------------------------------|--|---|
| Contract ID | CSO-JT-SB | CS-JA-BBS | CS-JA-BWR |
| Plan Elements | Destratification | Parallel 48-inch Sewer | Bending Weirs |
| Location | Shellbank Basin Queens | Belt Parkway Queens | Regulator J6 on the East Interceptor and regulators J3 and J14 on the West Interceptor |
| Actions | Construct Permanent Facility | Design and construct system upgrades | Design and construct system upgrades |
| Construction Cost | \$2,776,054 | \$20,256,909 | \$6,853,955 |
| Status | Complete | Construction | Construction |
| Other Issues | Certification Accepted Jul 23 2012 | | |

Table 8 – Jamaica Tributaries CSO Projects

3.4. Newtown Creek CSO

The Newtown Creek CSO Facility Planning area includes the portions of the Newtown Creek WWTP and the Low Level Interceptor of the Bowery Bay WWTP drainage areas that discharge to Newtown Creek, English Kills, Dutch Kills, Whale Creek, Maspeth Creek and the East Branch along the Brooklyn-Queens border. The Consent Order projects are constructed under contracts CSO-NC-2, CSO-NC-3, CSO-NC-4, CS-NC-REG & FLO, GBNC15-05, which include the following items:

- Enhanced Aeration in the Lower English Kills
 - DEP certified complete and DEC accepted certification May 13, 2014
- Enhanced Aeration in East Branch and Upper Newtown Creek
- Enhanced Aeration in Dutch Kills and Lower Newtown Creek
- Bending Weirs / Floatables Control
- Green Infrastructure Demonstration project in the Newtown Creek drainage area
 - Updates on the GI Demonstration Project are discussed in the Green Infrastructure Section of this report, below.

The work in Newtown Creek CSO Facility Planning area also includes Area-wide green infrastructure contracts in Newtown Creek CSO Tributary Drainage Area (TDA), which will saturate the area with as many green infrastructure practices as possible to meet the milestones as outlined in the Order. For more details on the Green Infrastructure Program, see Section 3.9.

Newtown Creek was added to the EPA Superfund National Priorities List (NPL) on September 29, 2010.

Design Work Performed During This Quarter

- Enhanced Aeration
 - Bid Opening for the Enhanced Aeration in East Branch and Upper Newtown Creek contract (CSO-NC-3, East Branch Aeration) took place on April 13, 2015. The Low Bidders are currently under review by DEP and City for possible award.
 - Completed design for the Enhanced Aeration in Dutch Kills and portions of Newtown Creek project (NC-4) and sent design completion certification to DEC on June 30, 2015.
- Bending Weirs and Floatables Control
 - Contract was awarded to Skanska USA, Civil Northeast, Inc. Contract was registered and NTP was issued on May 26, 2015. Contractor has begun mobilization and early construction activities.

- Pre-Construction conference held on May 21, 2015.
- Initiated review of construction contractor submittals.

Anticipated Design Activities for Next Quarter

- Enhanced Aeration
 - Award and register construction contracts.
 - The ULURP approval process is nearly completed. City Council approved the project subject to DEP negotiating a memorandum of understanding with an athletic organization for the open space portion of the site.
 - Begin procurement of the construction contract for the Enhanced Aeration in Dutch Kills and Lower Newtown Creek Aeration (NC-4) project.
- Bending Weirs and Floatables Control
 - Continue construction activities & review of construction contractor submittals.
 - Initiate contractor mobilization and commence construction work.

| | Enhanced Aeration 1 | Enhanced Aeration 2 | Enhanced Aeration 3 | Bending Weirs / Floatables Control |
|----------------------|---|--|--|--|
| Contract ID | CSO-NC-2 | CSO-NC-3 | CSO-NC-4 | CS-NC-REG & FLO |
| Plan Elements | Enhanced Aeration | Enhanced Aeration | Enhanced Aeration | Floatables Controls and Overflow Reduction |
| Location | Lower English Kills | East Branch and Upper Newtown Creek | Dutch Kills and Lower Newtown Creek | Dutch Kills, Maspeth Creek, English Kills and East Branch |
| Actions | Certification accepted May 13, 2014 | The design of the blower building and aeration system submitted June 30, 2014. | The design of the blower building and aeration system continues | Design of bending weirs and baffles, to reduce overflows/floatables |
| Construction Cost | \$1,769,000 | \$14,676,445 | \$26,147,164 | \$41,900,419 |
| Status | Construction | Design | Design | Construction |
| Other Issues | | Potential delay to NTP if approval of design is not timely provided by NYC Public Design Commission and/or City Planning | | |

Table 9 – Newtown Creek CSO Projects

3.5. Westchester Creek CSO

The Westchester Creek CSO Facility Planning area includes the portion of the Hunts Point WWTP drainage area, its associated sewers, and pumping stations that discharges to Westchester Creek and Pugsley Creek in the Bronx. The Consent Order projects are constructed under contracts CS-ER-WCM and CS-ER-WCP, which respectively include the following items:

- Modifications to CSO-29 and CSO-29A to increase conveyance to the WWTP and reduce discharges from Outfall HP-014
- Pugsley Creek Parallel Interceptor to increase conveyance to the WWTP and reduce discharges from Outfall HP-013

The work in Westchester Creek CSO Facility Planning area also includes Area-wide green infrastructure contracts in Westchester Creek CSO Tributary Drainage Area (TDA), which will saturate the area with as many green infrastructure practices as possible to meet the milestones as outlined in the Order. For more details on the Green Infrastructure Program, see Section 3.9, below.

Design Work Performed During This Quarter

- Modifications to CSO-29 and 29A
 - DEP issued the Invitation for Bid for the Westchester Creek CSO Modifications Project contract (CSO-WCM-29) on June 8, 2015.
 - Pre-bid conference was held on June 22, 2015.
 - Discussions initiated with Yeshiva University personnel to finalize the Construction License which will allow for the temporary occupancy of Albert Einstein College of Medicine (AECM) property by the selected construction contractor to allow for the performance of the work.
- Pugsley Creek Parallel Interceptor
 - Alignment meeting was held on March 18, 2015 Final Design is approximately 40% complete.
 - Modification request for final design completion milestone submitted on April 30, 2015.

Anticipated Design Activities for Next Quarter

- Modifications to CSO-29 and 29A
 - Open bids and award contract Finalize Construction License at AECM with Yeshiva University.
- Pugsley Creek Parallel Interceptor
 - Final Design to continue.

| | Modifications to CSO-29 and CSO-29A | Pugsley Creek Parallel Interceptor start from CSO-24 |
|-------------------|---|--|
| Contract ID | CS-ER-WCM | CS-ER-WCP |
| Plan Elements | Improve flow control structures in sewers to convey more flow to the Hunts Point WWTP | Add capacity to convey more flow to the Hunts Point WWTP |
| Location | Eastchester Road, Bronx | Classon Point, Bronx |
| Actions | Design | Continue Design at DDC |
| Construction Cost | \$15.3 Million | \$65.8 Million (Estimated) |
| Status | Contractor Procurement | Design underway |
| Other Issues | | Design delays due to underground infrastructure requiring redesign |

Table 10 – Westchester Creek CSO Projects

3.6. Jamaica Bay CSO

The Jamaica Bay CSO Facility Planning area includes the drainage areas of the 26th Ward, Coney Island, and Rockaway WWTPs and their associated sewers and pumping stations. The receiving waters of the study area include Fresh Creek, Hendrix Creek, Spring Creek, and the open waters of Jamaica Bay. The Consent Order projects are constructed under contracts CSO-DRG and CSO-GCER, which include the following items:

- Interim dredging of the head-end of Hendrix Creek
 - Completed
- Improving conveyance to the Rockaway WWTP
- 26th Ward High Level Sewer Separation (HLSS)
- 26th Ward Preliminary Treatment Reliability Improvements

The work in Jamaica Bay CSO Facility Planning area also includes Area-wide green infrastructure contracts in Jamaica Bay CSO Tributary Drainage Area (TDA), which will saturate the area with as many green infrastructure practices as possible to meet the milestones as outlined in the Order. For more details on the Green Infrastructure Program, see Section 3.9, below.

In addition, the 26th Ward Green Infrastructure Demonstration Project was performed under a separate contract. Updates on the GI Demonstration Project are discussed in the Green Infrastructure Section of this report.

Design Work Performed During This Quarter

- 26th Ward High Level Sewer Separation
 - Final Design has been completed for Phases 1a and 1b. Certification letter from DEC received on April 1, 2015.
 - Survey received for Phase 2a. Awaiting survey for Phase 2b.
 - Survey for Phases 3a and 3b have been received.
- 26th Ward Preliminary Treatment Reliability Improvements
 - On December 2014, certified proposed milestone XII.K.5, as revised by Appendix A to the 2015 Order modifying the CSO Order.
 - NOV related to April 2013 milestone for initiation of design was resolved by Consent Order effective March 26, 2015. (2015 Order)
 - PST work (26W-20) **Bid due June 18, 2015.**
 - HLMSP work (26W-21) **NTP on June 01, 2015.**

Construction Work Performed During This Quarter

Hendrix Street Canal Dredging

- Completed and submitted Draft Post Dredge Monitoring Report No. 5 to DEP for review.
- Initiated and completed benthic and bathymetric surveys of the canal in order to collect data to be used in the preparation of Post Dredge Monitoring Report No. 6.
- 26th Ward Preliminary Treatment Reliability Improvements
 - Continued with the replacement of Pump #5.

Anticipated Design Activities for Next Quarter

- 26th Ward High Level Sewer Separation
 - Phases 1a and 1b will be sent to Law and ACCO's office for approval.
 - Survey is expected to be received for Phase 2b. Preliminary Design to continue for Phases 2a, 3a, and 3b.

Anticipated Construction Activities for Next Quarter

- Hendrix Street Canal Dredging
 - Submit Post Dredge Monitoring Report No. 5 to DEC.
 - Initiate and complete ambient odor monitoring at the canal.
 - Initiate preparation of Post Dredge Monitoring Report No. 6.
- 26th Ward Preliminary Treatment Reliability Improvements
 - Complete startup and testing of Pump #5.
 - Certify construction completion.

| | Hendrix Creek Dredging | Rockaway WWTP Conveyance Improvements | 26 th Ward HLSS | 26 th Ward Wet Weather Stabilization |
|----------------------|--|---|--|--|
| Contract ID | CSO-HC | Project not yet initiated | CS-FB-SEW | 26W-21 (CO 128) 26W-20 |
| Plan Elements | Removal of CSO sediment mounds from the head end of the Hendrix Street Canal | Improve collection system and WWTP capacity to achieve 2DDWF | | Low Level MSPs High Level MSPs PST#5 PST1-4 Stabilization |
| Location | Hendrix Creek, Brooklyn | Rockaway WWTP, Queens | Fresh Creek, Brooklyn | 26 th Ward WWTP, Brooklyn |
| Actions | None | None | None | - |
| Construction Cost | \$13.2 million | TBD | \$50 million for Phases 1a and 1b (estimated) \$51 million for Phases 2a and 2b (estimated). \$63 million for Phases 3a and 3b (estimated) | LLMSP \$7.6 million 26W-21 \$15 million 26W-20 \$ 134.4 million |
| Status | Construction Complete | Project not yet initiated | CPIs for all 3 phases have been sent to DDC. | In Construction (LLMSPs) In Construction (26W-21) In Procurement/ Award (26W-20) |
| Other Issues | | | | Modifications to Consent Order and milestones for this project were effective Mar 26, 2015. |

Table 11 – Jamaica Bay CSO Projects

3.7. Wards Island WWTP Headworks Wet Weather Improvements

The Wards Island WWTP Headworks Wet Weather Improvements consist of work done at the WWTP to increase its wet weather handling capacity. **The projects described in this section 3.7 were added to the 2012 CSO Order through a modification effective** March 26, 2015 (DEC Case No. CO2-20140314-01). The projects are constructed under contracts WI-288(R) and WI-280, which include the following items:

- Reconstruction of Main Sewage Pumps (MSP)
- Bar Screen Replacement

Design Work Performed During This Quarter

- Bar Screen Replacement at Manhattan and Bronx River Grit Chambers
 - Certified milestone XV.B.1 Submit Basis of Design Report December 23, 2014.

Construction Work Performed During This Quarter

- MSP Replacement at Wards Island WWTP
 - Certified milestone XV.A.1. Notice to Proceed to Construction March 31, 2015
 - Started demolition work for the first MSP on June 24, 2015

Anticipated Construction Activities for Next Quarter

- MSP Replacement at Wards Island WWTP
 - Completion of the first MSP
 - Start Demolition work for the second MSP
- Bar Screen Replacement at Manhattan and Bronx River Grit Chambers
 - Contractor to start mobilization.

Table 12 – Wards Island WWTP Projects

| | MSP Reconstruction | Bar Screen Replacement | |
|----------------------|--|--|--|
| Contract ID | WI - 288(R) | WI - 280 | |
| Plan | Reconstruction of Six (6) Main Sewage Pumps | Replace Bar Screens at Bronx and Manhattan Grit Chambers | |
| Elements | Reconstruction of Six (0) Main Sewage 1 unips | | |
| Location | Wards Island WWTP | Wards Island WWTP | |
| Actions | Certification of Notice to Proceed to Construction sent on March 31, 2015 | Certification of Notice to Proceed to Construction sent on December 23, 2014 | |
| Construction Cost | \$3,689,000 | \$13,229,000 | |
| Status | The first existing MSP has been released for construction. | Shop witness schedule first week of July 2015 for one screen for each chamber. | |
| Other Issues | | Jett requested additional cost to installed BGC bar screen. | |

3.8. Environmental Benefits Projects

DEP has undertaken these projects in connection with the settlement of an enforcement action taken by New York State and DEC for violations of New York State law and DEC regulations. The Environmental Benefit Projects (EBPs) are funded by DEP and are designed to abate CSOs and/or address wet weather water quality impacts from CSOs and to benefit the waters in and around New York City.

In addition to the EBPs discussed below, the 2012 Order requires that \$2 million in EBP funding be allocated toward the Hutchinson River and Newtown Creek Neighborhood Demonstration Areas. The funding commitment has been met and the Demonstration Area projects are now complete.

2008 CSO EBP Grants

The 2008 Modification to the CSO Consent Order requires not less than \$4 million worth of DEPfunded Environmental Benefit Projects (EBPs) designed to abate CSOs and/or address wet weather water quality impacts from CSOs and to benefit the waters in and around New York City.

Manhattan College

The installation of approximately 14,666 sq. ft. of a modular green roof project on New York Hospital in Queens was completed in November 2012 and monitoring of flow data continues and is in year **three** of the three year monitoring period.

The total project value is \$660,440; \$390,725 has been invoiced through July 2014. Currently in discussion with Manhattan College and New York Hospital to increase the scope of this project by installing and monitoring an additional green roof using existing funds. The goal of this new roof would be to test the shade tolerance of the plantings and determine the baseline light requirement beyond which green roof plantings would not survive.

NYC Audubon Society

A Greenstreets stormwater capture system in Rego Park that will retrofit an impervious surface and replace it with permeable pavement and vegetation to capture runoff from a three acre-watershed. A topographical survey of the site was conducted. 90% construction designs are in the process of being updated following discussion with NYC DOT to ensure the project conforms with updated pedestrian and traffic calming features. Alternative drainage conveyance into the sewer system will not be required. The total project value is \$448,803; \$75,000 has been invoiced to date as startup fund and subsequent bills have been deducted from the fund. \$2,340.57 remains available in Audubon's startup fund.

Regional Plan Association

Two Sponge Park[™] bioretention basins were completed in June 2013 and monitoring equipment were installed shortly afterward. Equipment testing and data collection began in Spring 2014. Ice formation during the winter of 2014-2015 caused minor damage to some aboveground equipment which will be reinstalled prior to resumption of monitoring in Spring 2015. Equipment calibration tests scheduled for April to test new sensors which were added since Spring 2014. The total project value is \$600,000; \$430,594 has been invoiced through June 2014.

Gowanus Canal Conservancy

The 6th Street Green Corridor Project built a series of curbside swales ranging from 400 square feet to 1,200 square feet along 6th Street and 2nd Avenue in Brooklyn. Construction began in April **2014** and all major structures for the eleven bioswales were completed by June. Trees and herbaceous plants were installed in early June and are currently being maintained by the Conservancy and the contractor. Installation of tree guards and other aesthetic details has been completed and the sites are ready to receive monitoring equipment. The site sustained some damage during winter 2014-2015 and will be evaluated and repaired by the contractors. Monitoring equipment is slated to be installed in May and data collection will begin immediately after. The total project value is \$583,470 (\$873,470 including EPA Grant); \$300,065 has been billed through June 2014.

• Unisphere, Inc.

Installation of a treatment wetland and rain garden for treating stormwater entering Meadow Lake. This project will receive runoff from approximately 3.26 acres consisting of portions from a parking area at the southwestern edge of Meadow Lake in Flushing Meadows Corona Park. eDesign Dynamics entered into a contract agreement with Excav Services and construction began on May 20, 2013. Construction was halted due to the discovery of contaminated soil. Construction resumed in 2014 with the segregation and removal of the differing soil. Site grading progressed and is soon ready to receive inbound soils. Construction is to be completed in spring 2015 and installation of wetland planting and upland vegetation will be completed immediately after. The total project value is \$504,340; \$310,679 was invoiced through December 2014.

• Drexel University

Project was to design, construct, monitor, evaluate, report on and maintain a variety of green infrastructure stormwater capture technologies that also promote ecosystem services in the Bronx River watershed. Due to high bedrock and low infiltration rate, the proposed location at Stratford Ave is being dropped as a viable site. Alternative sites at the Bronx High School of Science and Flushing International High School was submitted as an alternate site and was approved by DEC to proceed with full design. The total project value is \$893,493; \$205,108 has been invoiced through September 2014.

| Plan Elements: | Bronx River | Flushing Bay and Creek | Gowanus Canal | DEC US Forestry Service Grant |
|-------------------|--|--|---|---|
| Location: | HP-009 Service Area | Multiple Areas | 6th St / 2nd Ave, Brooklyn | Bronx River and Newtown Creek CSO Areas |
| Description: | Stormwater BMP evaluations | Manhattan College New York Hospital Green roof (\$660,440); RPA bioretention basins under the LIE (\$600,000); Unisphere treatment wetlands and rain gardens for Meadow Lake (\$504,340); NYC Audubon Rego Park Green Streets (\$448,803) | Gowanus Canal Conservancy 6th Street Green Corridor Project | Enhanced tree pit evaluation in HP-009 service area; Green infrastructure installation in Newtown Creek CSO shed; Open source access for Drexel University's LIDRA model; Education and stewardship activities in the HP-009 area. |
| Cost: | Budget: \$850,000 JTD : \$205,108 This Qtr: \$130,108 Next Qtr: \$100,000 | Budget: \$2,213,583 JTD: \$1,206,998 This Qtr: \$44,914 Next Qtr: \$100,000 | Budget: \$583,470 JTD: \$300,065 This Qtr: \$3,602 Next Qtr: \$100,000 | Budget: \$250,000 JTD: \$223,244 This Qtr: \$0 Next Qtr: \$0 |
| Status: | Alternative BMP site location selected Design underway | Manhattan College and RPA completed construction and is in the monitoring phase. Construction at Unisphere is ongoing. NYC Audubon is updating 90% designs to reflect new DOT Standards | Construction completed July 2014. Monitoring of installations to begin and continue for three years. | Contracts expired Jun 30 2013 |
| Other Issues: | Subsurface Drainage | None | None | Working with Riverkeeper to close out their contract. |

Table 13 – 2008 Modified CSO Consent Order Environmental Benefits Projects

3.9. Green Infrastructure Program Implementation

This section of the quarterly report provides the status of Green Infrastructure Program implementation required by paragraph IV.C of the 2012 CSO Consent Order. The Order sets forth schedule and stormwater capture targets, and other requirements for the program to reduce runoff and CSO through the use of green infrastructure.

Additionally, the Order contains completion milestones for three Green Infrastructure Demonstration projects and set forth financial requirements including the requirement to spend no less than \$2M of EBP funds on the implementation of two Green Infrastructure Demonstration areas, which has been achieved.

To meet the green infrastructure goals of the Order, DEP has identified Priority Areas based on several criteria, such as annual CSO volume, frequency of CSO events, as well as projected benefits of projects constructed through DEP's Waterbody/Watershed Facility Plans or other system improvements planned for the future. DEP also notes outfalls in close proximity to existing and future public access locations. DEP continues to review and expand the Priority Areas to ensure sufficient green infrastructure implementation to meet the 2030 goal set forth in the Order.

The identification of Priority Areas has enabled DEP to focus resources on specific CSO tributary areas, to analyze all potential opportunities, to saturate these areas with green infrastructure as much as possible, and to achieve efficiencies in design and construction.

DEP has initially focused primarily on the Area-wide right-of-way contracts building Right-ofway bioswales, Stormwater Greenstreets, Right-of-way Rain Gardens, and porous paving. DEP's standardized designs and procedures have been critical to supporting the systematic implementation of green infrastructure at a wide scale. DEP expects to continue green infrastructure implementation using an expanding array of tools. As right-of-way implementation continues and reaches its fullest extent over the long term, DEP will increasingly rely on other, more site-specific opportunities on public and private property. Over time, the proportion of program resources devoted to implementation will shift from right-of-way to public property retrofits and other types of green infrastructure tools.

During the **Second** Quarter of 2015, design and construction work continued in three Green Infrastructure Program initiatives and are generally summarized below. DEP plans to continue this work for the next quarter.

- Ongoing Area-wide green infrastructure contracts design and build thousands of Right-of-way Bioswales, Right-of-way Rain Gardens and Stormwater Greenstreets (ROWBs, ROWRGs and SGSs). Design and construction contracts are being implemented in multiple phases.
- Ongoing siting, design and construction of public property retrofits in coordination with City agency and non-profit partners.
- Ongoing design and construction of Green Infrastructure Grant Program projects on private property.

Below is a **status** summary of green infrastructure practices **and impervious area managed** by CSO Tributary Drainage Area (TDA), as of the publish date of this report. The table is cumulative and updated each quarter.

| CSO Tributary Drainage Area | Constructed GI Practices | GI Practices in Construction | Total Impervious Area Managed (ac) |
|--------------------------------|---|---------------------------------|---------------------------------------|
| Bronx River | 40 | 1 | 10.5 |
| East River | 64 | 1 | 17.3 |
| Flushing Bay | 54 | 465 | 38.3 |
| Flushing Creek | 13 | 1 | 2.4 |
| Gowanus Canal | 29 | 92 | 9.9 |
| Hutchinson River | 22 | 126 | 17.8 |
| Jamaica Bay | 58 | 877 | 100.9 |
| Newtown Creek | 25 | 849 | 63.9 |
| Westchester Creek | 3 | 0 | 0.3 |
| Total | 308 | 2,412 | 261.2 |

Table 14 – Status of Green Infrastructure Practices and Impervious Area Managed

- The 261.2 acres represent 0.33% of the total impervious area in combined sewer areas to be managed.
- DEP is on schedule to achieve 0.7% impervious area managed by end of 2015 and 1.5% by the end of 2016, as described in the 2014 Annual Report.

4.0 Community Relations

DEP's public participation plan was released to the public on June 26, 2012 and describes the multipronged tools and activities DEP will utilize to inform and involve diverse stakeholders and the broader public throughout the LTCP process.

The purpose of the public participation plan is to create a framework for communicating with and soliciting input from interested stakeholders and the broader public on water quality and the challenges and opportunities for CSO controls. The public participation plan is designed to keep important stakeholder issues associated with the LTCP program before the public and ratepayers throughout the life of the program.

DEP will report quarterly to DEC on completed public participation activities outlined in the public participation plan as part of this and all future CSO Quarterly Reports. All updates to the Public Participation Plan implemented as a result of public comments received and quarterly reviews of public participation activities by DEC will be posted annually to DEP's website.

During the **Second Quarter of 2015** DEP completed several community relations-related tasks and provided several LTCP-related updates and education materials to the public. All tasks, efforts and updates are described in this Quarterly Report.

| Date | Community Member(s) | Type of Outreach | Attendees |
|-------|--|------------------|-----------|
| April | | | |
| 1 | Brooklyn Community Board 2 | Presentation | 30 |
| 8 | Queens Community Board 5 | Presentation | 25 |
| 14 | Queens Community Board 4 | Presentation | 75 |
| 24 | NY Law School Rooftops Conference | Meeting | 100 |
| May | | | |
| 12 | Councilmember Lander meeting | Meeting | 2 |
| 18 | Bronx Community Board 11 | Presentation | 11 |
| 19 | Brooklyn Community Board 16 | Presentation | 1 |
| 19 | Brooklyn Community Board 5 | Presentation | 1 |
| 28 | Expo Gowanus | Presentation | 100 |
| June | | | |
| 4 | Queens Community Board 2 | Presentation | 120 |
| 10 | P.S. 111M Opening Ceremony | Presentation | 200 |
| 15 | Brooklyn Community Board 17 | Meeting | 10 |
| 16 | Green Infrastructure Summit | Presentation | 25 |
| 18 | S.W.I.M. Public Meeting | Meeting | 20 |
| 23 | Gowanus Canal Conservancy Bioswale Maintenance | Meeting | 15 |
| 25 | UGC-NAOIC "Building Green-Calculating Payback" | Meeting | 40 |
| 25 | C.S. 300X Opening Ceremony | Presentation | 250 |
| 30 | The Nature Conservancy | Meeting | 5 |

Table 15 – Green Infrastructure Meetings

LTCP Education and Outreach Activities

• May 7, 2015: DEP held the second Bronx River LTCP public meeting at the Casita Maria Center for Arts & Education at 290 Simpson St., 6th Floor, Bronx, NY 10459. DEP presented information on the LTCP process, Bronx River watershed characteristics, and the status of engineering alternatives evaluations, and provided opportunities for public input. Approximately 40 stakeholders from 10 different non-profit, community, planning, environmental, economic development, governmental organizations and the broader public attended the event and a reporter from local Bronx paper.

• May 14, 2015: DEP hosted the second Gowanus Canal LTCP public meeting at Public School 32, 317 Hoyt Street in Brooklyn. DEP presented information on the LTCP process, Gowanus Canal watershed characteristics, and the status of engineering alternatives evaluations, and provided opportunities for public input. Approximately 35 stakeholders from 20 different non-profit, community, planning, environmental, economic development, governmental organizations and the broader public attended the event and one representative from the local media.

Planned Activities Not Conducted During This Quarter

• DEP conducted all planned activities this quarter.

Summary of Comments Received

DEP received comments (via e-mail) on the Bronx River and Gowanus Canal meetings from the following: Bronx River Alliance, Stormwater Infrastructure Matters (S.W.I.M.) Coalition and The Nature Conservancy.

The following is a summary of all e-mails received during the second quarter of 2015:

| | 2015 | | | |
|-----------------------------|-------|-----|------|--------|
| | Q2 | | | |
| | | | | Sub- |
| | April | May | June | Totals |
| RSVP to LTCP Meeting | 2 | 2 | 0 | 4 |
| Request to be Added | 0 | 0 | 0 | 0 |
| Request to be Deleted | 0 | 0 | 0 | 0 |
| Press Inquiries | 0 | 1 | 0 | 1 |
| Public Comment | 0 | 10 | 0 | 10 |
| General Information | 1 | 0 | 0 | 1 |
| Sub-Totals | 3 | 13 | 0 | 16 |

5.0 Changes

The table below provides key personnel as of the Second Quarter of 2015.

| | | DEP Responsible Personnel | | |
|---------------|---|---------------------------|-----------|--------------|
| Planning Area | nning Area Project | | Chief | APM |
| | CSO-DRDG: Gowanus Dredging | BEDC | Tysvaer | Chao |
| Inner Harbor | CSO-GC: Flushing Tunnel | BEDC | Clarke | Joseph |
| | CSO-GC: Gowanus PS | BEDC | Clarke | Joseph |
| | CSO-DRDG: Dredging | BEDC | Tysvaer | Chao |
| | PW-088 Assn. 2B: Flushing Interceptor | BWT | Lochan | Tbd |
| Flushing | CS-FB-LLD: Low-Lying Sewers | BWSO | DeLillo | Gordon/Garin |
| Bay | CS-FB-LLD R2 Weir | BWT | Tbd | Tbd |
| | CS-FB-BWR: Regulators | BEDC | Tysvaer | Szeto |
| | TI-WW-1: Whitestone Interceptor | BEDC | Solimando | Sadat |
| Jamaica | CS-JA-BWR: Bending Weirs | BEDC | Tysvaer | Novotny |
| Tributaries | CS-JA-BBS: 48-Inch Sewer | BEDC | Tysvaer | Szeto |
| | CSO-NC-4: Dutch Kills, Lower Newtown | BEDC | Tysvaer | Meshkati |
| Newtown | CSO-NC-3: East Branch, Upper Newtown | BEDC | Tysvaer | Meshkati |
| Creek | CSO-NC-2: Enhanced Aeration Lower English Kills | BEDC | Tysvaer | Adabi |
| | CS-NC-REG&FLO: Regulators / Floatables Control | BEDC | Tysvaer | Chao |
| Westchester | CS-ER-WCM: Modifications to CSO-29 / 29A | BEDC | Tysvaer | Chao |
| Creek | CS-ER-WCP: Pugsley Creek Parallel Interceptor | BWSO | DeLillo | Gordon/Garin |
| | CSO-HC: Hendrix Creek Dredging | BEDC | Tysvaer | N. Shah |
| Jamaica | CS-FB-SEW: 26th Ward / Fresh Creek HLSS | BWSO | DeLillo | Gordon/Garin |
| Bay | CO 26W-128: Low Level Main Sewage Pumps | BEDC | Solimando | Kharivala |
| | 26W-20: 26th Ward Wet Weather Stabilization | BEDC | Solimando | D'Attile |
| Wards Island | Reconstruction of Main Sewage Pumps (MSP) | BWT | Anderson | A. Parada |
| w arus Island | Bar Screen Replacement | BEDC | Moriarty | N. Shah |

Table 167 – Key DEP Personnel for Contracts Subject to the CSO Consent Order

6.0 Other Issues

Action Items generated during the June 10, 2015 CSO Quarterly Meeting are summarized below.

| Planning Area | Responsible Party | Required Action | Status |
|-----------------------|----------------------|---|---------------------------|
| Inner | | | Completed |
| Harbor DEC | | • DEC to decide on implementation of Gowanus Canal dredging project | In Progress |
| Newtown Creek | DEC | • DEC to respond to mod request regarding June NTP milestone | |
| | DEP | • DEP to propose construction completion | In Progress |
| Flushing Bay/Creek | DEP | milestone for Flushing Bay dredging projectDEP to provide point of contact to Paul | ~ |
| | | Kenline for low lying sewers project | Completed |
| | DEC | • DEC to complete final inspection of 26W low | Waiting for consistent |
| | | lying MSPs | rain event to |
| Jamaica | | | have DEC |
| Jamaica Bay/Tribs | | | come back to |
| 2 | | | witness |
| | | | Pump #5 operating at |
| | | | Step 5. |
| Westchester | DEC | • DEC to respond to mod request regarding | In Progress |
| Creek | | June milestone for Pugsley Creek parallel interceptor design. | |
| EBPs | DEC | Follow up with J McLaughlin on National Audubon Society EBP | In Progress |
| | DEP | • DEP to provide sampling plans that have | In Progress |
| | | not yet been submitted to DEC | |
| Misc | DEP | DEP to provide flow monitoring and influent sampling data from LTCP | In Progress |
| | | sampling efforts (ongoing) | |
| 11150 | DEP/DEC | • DEC and DEP to discuss reporting metric | |
| | | for GI program | |
| | DEC | DEC to provide formal comments on Flushing Creek and Hutchinson River LTCPs. | |

 Table 178 – Action Items from Quarterly Progress Meeting

New York City Department of Environmental ProtectionQuarterly Progress ReportCase #C02-20110512-25 Modification to C02-20000107-8Second Quarter, 2015

| • Conduct quarterly technical meetings on city-wide GI implementation, commencing with the 2014 annual GI report in April | Under |
|--|------------|
| | discussion |

7.0 Status of LTCP Development

The status of all Long-Term Control Plan development is described below. Where only the planning area and a LTCP due date are shown, work has not yet been initiated as of the reporting quarter. All Waterbody/Watershed Facility Plans (WWFPs) have been approved.

- Alley Creek LTCP: June 2013
 - DEC comments received on January 23, 2015
 - Response due to DEC May 6, 2015.
- Westchester Creek LTCP: June 2014 (modified date)
 - LTCP was submitted on June 30, 2014 in accordance with the requirements of the Order. DEC comments received on September 22, 2014. DEP responded on November 24, 2014.
 - Additional DEC comments received on January 14, 2015.
 - Response sent to DEC April 14, 2015
- Hutchinson River LTCP: September 2014
 - LTCP was submitted on September 30, 2014 in accordance with the requirements of the Order. **DEC comments received on January 14, 2015.**
 - Response sent to DEC April 14, 2015
 - DEC sent response with comment on June 10, 2015
- Flushing Creek LTCP: December 2014
 - LTCP was submitted on December 30, 2014 in accordance with the requirements of the Order. **DEC comments received on March 23, 2015.**
 - Response sent to DEC May 22, 2015
 - DEC sent response with comment on June 10, 2015
- Bronx River LTCP: June 2015
 - Submitted on-time.
- Gowanus Canal LTCP: June 2015
 - Submitted on-time.
- Coney Island Creek LTCP: June 2016 (modified date)
- Flushing Bay LTCP: June 2016 (modified date)
- Jamaica Tributaries and Bay LTCP: June 2017 (modified date)
- Newtown Creek LTCP: June 2017
- Citywide LTCP: December 2017