



DEC Case# CO2-20110512-25, Modification to CO2-20000107-8

CSO Order on Consent
Quarterly Progress Report
Third Quarter 2020
(July 1st – September 30th)

October 30, 2020

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1. Executive Summary

The City of New York (the “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, which was 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 summarizes DEP’s actions and activities toward complying with the Order’s milestones between **July 1, 2020** and **September 30, 2020**. 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 **September 16, 2020** for the **second** quarter of 2020 and is scheduled to hold a Quarterly Progress Meeting on **December 9, 2020** to discuss issues related to the Order and review milestones met during the **third** quarter of **2020**.

On March 19, 2020, DEP submitted a Notice of Force Majeure for the CSO Order due to the COVID-19 pandemic. As a direct result of the economic impacts of COVID-19 on New York City finances and the ongoing uncertainty of long-term impacts, DEP is facing multiple fiscal pressures including; a) Deferred spending for critical infrastructure projects from FY 2020; b) Projected potential fiscal impacts of COVID-19 and projected impacts to revenue; and c) DEP priority to maintain sufficient funding for critical infrastructure projects necessary for the operation and maintenance of the DEP’s water and wastewater treatment and conveyance systems, including the Wastewater Resource Recovery Facilities (WRRFs). Given the current fiscal uncertainty and projected potential reduction in revenue caused by COVID-19, DEP must seek to allocate budget resources to reflect expected revenue, balanced with the affordability of water rates for DEP ratepayers. In order to respond to these issues and responsibly allocate resources, DEP is engaged in an ongoing effort to evaluate funding for all projects in the current and upcoming fiscal years to prioritize projects critical to DEP’s core mission to provide clean drinking water and collect and treat wastewater during dry and wet weather to protect water quality in and around New York City in accordance with the regulatory requirements of the Safe Drinking Water Act and Clean Water Act. To the extent any funding constraints may impact future compliance with the milestones covered in this Quarterly Report, DEP will notify DEC and make best efforts to mitigate any delays.

Reportable Activity This Quarter

| Date | Location | Event Description |
|--------------------|-------------------------------|--|
| July 6, 2020 | Jamaica Tributaries | Appendix A, VI. Jamaica Tributaries CSO, C. Bergen Basin 18-Inch Sewer 4. - Construction Completion - DEC accepts DEP's Certificate of Construction Completion |
| July 9, 2020 | Westchester Creek | Appendix A, IX. Westchester Creek CSO, A. Modifications to CSO-29/29A, 4. Construction Completion – DEP submits update to Force Majeure and Modification Request, requesting a September 30, 2020 completion date. |
| August 3, 2020 | Westchester Creek | Appendix A, IX. Westchester Creek CSO, A. Modifications to CSO-29/29A, 4. Construction Completion – DEC responds to update to Force Majeure and Modification Request and grants a new milestone of September 1, 2020 |
| August 3, 2020 | Citywide | Appendix A, XIV. Open Waters/Citywide LTCP – DEC responds to modification request for submittal of the Open Waters/Citywide LTCP |
| September 11, 2020 | Jamaica Bay | Appendix A, XII. Jamaica Bay CSO, K. 26 th Ward Preliminary Treatment Reliability Improvements 9. Construction Completion PSTs #1-4 – DEP submitted additional information to DEC related to the expansion joint Force Majeure. |
| September 14, 2020 | Westchester Creek | Appendix A, IX. Westchester Creek CSO, A. Modifications to CSO-29/29A, 4. Construction Completion – DEP certified that construction completion was met as of August 28, 2020. |
| September 16, 2020 | Flushing Bay | Appendix A, V Flushing Bay CSO, G. Flushing Bay 25 MG CSO Storage Tunnel, 1. Initiate Final Design – DEP submitted a Force Majeure related to COVID-19 |
| September 21, 2020 | Jamaica Bay | Appendix A, XII. Jamaica Bay CSO, K. 26 th Ward Preliminary Treatment Reliability Improvements 9. Construction Completion PSTs #1-4 – DEC approved the COVID-19 Force Majeure |
| September 21, 2020 | Jamaica Bay | Appendix A, XII. Jamaica Bay CSO, B. 26 th Ward HLSS 9. Construction Completion Phase II – DEC approved the COVID-19 Force Majeure |
| September 30, 2020 | Citywide | Appendix A, XIV. Open Waters/Citywide LTCP – DEP submitted the Open Waters/Citywide LTCP |
| September 30, 2020 | Citywide Green Infrastructure | DEP requested to extend informal negotiations until February 1, 2021 to resolve issues related to the June 25, 2019 claim of a Force Majeure event. |

Milestone Actions This Quarter

| Location | Item Description | Milestone Date | Action Required | Status |
|-------------------|-------------------------------------|----------------|-------------------------|--|
| Westchester Creek | Modifications to CSO-29 and CSO-29A | July 9, 2020 | Construction Completion | DEP submitted milestone certification on 9/14/20 |
| Citywide | Citywide/Open Waters LTCP | September 2020 | Submit LTCP | DEP submitted LTCP on September 30, 2020 |

Milestone Actions Next Quarter

| Location | Item Description | Milestone Date | Action Required | Status |
|-------------|-----------------------------------|----------------|-------------------------|--|
| Jamaica Bay | 26th Ward HLSS – Phase II | Dec 2020 | Construction Completion | FM submitted due to NYCHA steam pipe interference. Milestone modification request will be submitted |
| Citywide GI | Certification of 1.5% milestone | Dec 2020 | Certification | FM submitted due to COVID-19 and related delays. Full extent of these delays is unknown and DEP will keep DEC apprised. DEP intends to submit a modification request |
| Citywide GI | Certification of the 4% milestone | Dec 2020 | Certification | DEP intends to submit a Contingency Plan by June 30, 2021 |

Pending Modification Requests (MR) and Open Force Majeure Event Claims (FM)

| Location | Item Description | Action(s) | Reason for Action(s) | Milestone Date | Status |
|-----------------|---|--|---|---------------------------------------|--|
| Jamaica Bay | 26 th Ward HLSS Phase II | <ul style="list-style-type: none"> • DEP submitted FM 5/14/18 • DEP provided additional info on 3/11/19 • DEC acknowledged valid FM on 06/05/19 • DEP submitted an additional FM on 3/19/20 • DEC responded on 3/26/20 requested additional information • DEC acknowledged valid FM on 09/21/20 | <p>Force Majeure - NYCHA Steam pipe interferences</p> <p>Force Majeure - COVID-19 and related delays</p> | Dec 2020 (Construction Completion) | Full extent of the delay has not yet been identified and DEP will keep DEC apprised. DEP intends to request a modification |
| Jamaica Bay | 26 th Ward HLSS Phase III | <ul style="list-style-type: none"> • DEP submitted MR 3/1/19 • DEP provided additional info on 8/14/19 | Force Majeure - Buckeye Fuel Pipe Interferences, Cover Issues | Mar 2019 (Design Completion) | Full extent of the delay has not yet been identified and DEP will keep DEC apprised. DEP intends to request a modification once the full extent of delays is identified. |
| Bowery Bay/EROW | Area-wide ROW Green Infrastructure in BB-005 CSO Tributary Area | <ul style="list-style-type: none"> • DEP submitted FM 6/26/19 • DEP submitted extension request for informal negotiations on 9/30/20 | No awardable bids received | December 2020 (NTP) | DEC denied FM claim. DEP and DEC are in negotiations concerning the DEC determination. |

| Location | Item Description | Action(s) | Reason for Action(s) | Milestone Date | Status |
|-------------|--------------------------------|--|--|---------------------------------------|---|
| Jamaica Bay | 26 th Ward PSTs 1-5 | <ul style="list-style-type: none"> • DEP submitted FM on 12/20/19 • DEC responded on 1/13/20 and requested additional information • DEP submitted additional information on 3/13/20 • DEP submitted additional information on 9/11/20 • DEP submitted an additional FM on 3/19/20 • DEC responded on 3/26/20 requested additional information • DEP submitted additional information on 5/26/20 • DEP updated the FM on 8/11/20 • DEC acknowledged FM to be valid on 09/21/20 | <p>Force Majeure-deteriorated expansion joints in PST-4 and other PSTs</p> <p>Force Majeure - COVID-19 and related delays</p> | Jan 2021 (Construction Completion) | Modified milestone will be needed due to FMs. DEP intends to request a modification once the full extent of the delays has been identified. |

| | | | | | | |
|---|-------------------------------------|---|---|---|--|--|
| Westchester Creek | Modifications to CSO-29 and CSO-29A | <ul style="list-style-type: none"> • DEP submitted FM on 3/11/19 on differing bedrock elevations at CSO-29 • DEC acknowledged valid FM 7/1/19 • DEP submitted updated FM on 1/31/20 with a delay and request of 121 additional days. • DEC responded to request on 3/2/20 and granted a 136-day extension to 7/9/20 | Force Majeure - unanticipated differing bedrock elevations delays | Force Majeure - COVID-19 and related delays | September 1, 2020 (Construction Completion) | DEP certified that construction was completed on September 14, 2020. |
| <ul style="list-style-type: none"> • DEP submitted an additional FM on 3/19/20 • DEC responded on 3/26/20 requested additional information DEP submitted additional information on 5/26/20 • DEC responded to FM delay on 6/10/20 and requested additional information • DEP submitted modification request on September 30, 2020 was requested on July 09, 2020 due to due to work stoppage by the | | | | | | |

| Location | Item Description | Action(s) | Reason for Action(s) | Milestone Date | Status |
|----------|------------------|--|----------------------|----------------|--------|
| | | <p>contractor who reported that they lost approximately 54 days of work.</p> <ul style="list-style-type: none"> • DEC responded on August 3, 2020 granting an extension to September 1, 2020. | | | |

| Location | Item Description | Action(s) | Reason for Action(s) | Milestone Date | Status |
|---------------|--|--|--|---|---|
| Citywide | Open Waters/ Citywide LTCP | <ul style="list-style-type: none"> • DEP submitted an additional FM on 3/19/20 • DEC responded on 3/26/20 requested additional information • DEC responds to DEP's Mod Request on 8/3/20 | Force Majeure - COVID-19 and related delays | May 2020 | DEP submitted LTCP on 9/30/20 |
| Citywide GI | Certification of 2015 milestone (1.5%) | <ul style="list-style-type: none"> • DEP submitted a mod request on 11/27/19 • DEC responded on 12/10/19 • DEP submitted a FM on 4/20/20. • DEC responded on 4/30/20. | Force Majeure – COVID-19 and related delays | December 31, 2019 December 31, 2020 | Modified milestone will likely be needed due to FM. DEP intends to request a modification once the full extent of the delays has been identified. |
| All Locations | All open/ active milestones | <ul style="list-style-type: none"> • DEP submitted a FM notice on 3/19/20 for all active/open milestones • DEC responded to FM notice on 3/23/20 and requested further review in 60 days by DEP to assess impacts. | Force Majeure COVID-19 - with potential delays due to ongoing pandemic | Multiple | Full extent of the delay has not yet been identified and DEP will keep DEC apprised on a project by project basis |

2. 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. The table below identifies, by percentage, the estimated amount of construction that has been performed on projects that are in progress.

| Location | Item Description | Notice to Proceed | Construction Completion Milestone | Projected Completion | % of Time Elapsed | % of Construction Completed ⁽¹⁾ |
|-------------------------|-------------------------------------|-------------------|-----------------------------------|----------------------|-------------------|--|
| Jamaica Bay Tributaries | Bergen Basin 18" Sanitary Sewer | Jan 2019 | Oct 2021 | Sept 2020 | 71% | 100% |
| Westchester Creek | Modifications to CSO-29 & 29A | Dec 2015 | Sept 2020 | Sept 2020 | 100% | 100% |
| Jamaica Bay | 26 th Ward HLSS Phase 1 | Mar 2016 | Dec 2018 | Dec 2018 | 100% | 100% |
| | 26 th Ward HLSS Phase 2A | Sept 2017 | Dec 2020 | Sept 2020 | 81% | 55% |

| Location | Item Description | Notice to Proceed | Construction Completion Milestone | Projected Completion | % of Time Elapsed | % of Construction Completed⁽¹⁾ |
|-----------------|---|--------------------------|--|--|--------------------------|--|
| | 26th Ward HLSS Phase 2B | Sept 2017 | Dec 2020 | Sept 2020 | 93% | 99% |
| | 26th Ward HLSS Phase 3 | Mar 2020 | Dec 2022 | Dec 2022 | - | - |
| | 26th Ward PSTs 1-5 | Jan 2016 | Jan 1, 2021 | May 2022 | 112% | 86% |
| | Rockaway WRRF Conveyance | | Dec 2017 | Pending Mod Request and negotiation resolution | - | - |

(1) Percentage Construction Completion is tracked based on cost incurred.



3. Alley Creek CSO

Alley Creek LTCP Approved on March 7, 2017

Alley Creek CSO Schedule

| Alley Creek CSO | DEC Approved Milestones ⁽¹⁾ | Status |
|--------------------------------------|--|---|
| 1. Initiate Final Design | Sept 2018 | Certified by DEP Oct 2, 2017 |
| 2. Design Completion | Sept 2021 ⁽²⁾ | BODR submitted to DEC Design on hold |
| 3. Notice to Proceed to Construction | Sept 2022 ⁽²⁾ | TBD Pending Design Completion |
| 4. Construction Completion | Sept 2024 ⁽²⁾ | TBD Pending Design Completion |

⁽¹⁾ Milestone dates may be subject to revision by DEC based on additional facility planning.

⁽²⁾ **Design is on hold while DEP evaluates alternatives to disinfection. DEP intends to submit a modification request for the milestone.**



4. Inner Harbor CSO

Gowanus Canal LTCP Approved on March 29, 2017

- February 27, 2015 - DEP certified construction completion of the Flushing Tunnel Modernization and Pump Station Reconstruction as of December 24, 2014 and June 20, 2014 respectively.
- April 13, 2015 – DEC accepted DEP’s certification of construction completion in accordance with the CSO Order.
- DEP continues to operate the Flushing Tunnel in accordance with its operational plan.
- DEP has completed a project to mitigate foam from the Gowanus Canal Flushing tunnel as of January 3, 2020.



5. Flushing Bay CSO

The Flushing Bay CSO Facility Planning area includes the portions of the Tallman Island WRRF and the High Level Interceptor of the Bowery Bay WRRF drainage areas, associated sewers, and pumping stations that discharge to Flushing Bay and Flushing Creek in Queens.

Construction Contracts

| | Tallman Island Flushing Interceptor | Divert Low-Lying Sewers / Raise Weir BB-R02 | Regulator Modifications | Environmental Dredging |
|--------------------------|---|--|--|---|
| <i>Contract ID</i> | TBD | CS-FB-LLD | CS-FB-BWR | CSO-DRDG DRG-FB |
| <i>Plan Elements</i> | Monitor Flushing Interceptor sag in Ulmer Street and address if periodic monitoring indicates necessity | Divert Low Lying sewers in vicinity of Bowery Bay WRRF. Raise weir at regulator BB-02 | Bowery Bay High Level Interceptor regulator modifications at ten regulators | Environmental Dredging of Flushing Bay |
| <i>Location</i> | 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 BB-006 and BB-008 |
| <i>Construction Cost</i> | TBD | \$5,610,000 | \$28,959,345 | \$37,560,000 |
| <i>Status</i> | Next scheduled survey in 2022 | Certified Complete on 9/11/2017 | Certified Complete on 6/8/2018 | Dredging Complete on 7/10/17 – Construction completed on 8/16/18. Currently in 2-year maintenance period. |

Design Activity Summary

| | This Quarter | Next Quarter |
|--|--|--------------|
| Divert Low-Lying Sewers / Raise Weir BB-R02 | <ul style="list-style-type: none"> • Complete | |
| Regulator Modifications | <ul style="list-style-type: none"> • Complete | |

Construction Activity Summary

| | This Quarter | Next Quarter |
|--|---|--------------|
| Divert Low-Lying Sewers / Raise Weir BB-R02 | <ul style="list-style-type: none"> • Certified completion on 9/11/2017 | |
| Regulator Modifications | <ul style="list-style-type: none"> • Certified completion on 6/8/2018 | |
| Environmental Dredging | <ul style="list-style-type: none"> • Certified completion on 8/16/2018. Continue with 2-year maintenance period • DEC accepted Certificate of Construction Completion on 10/29/2018 | |

Flushing Bay LTCP Approved on March 7, 2017

Flushing Bay CSO Schedule

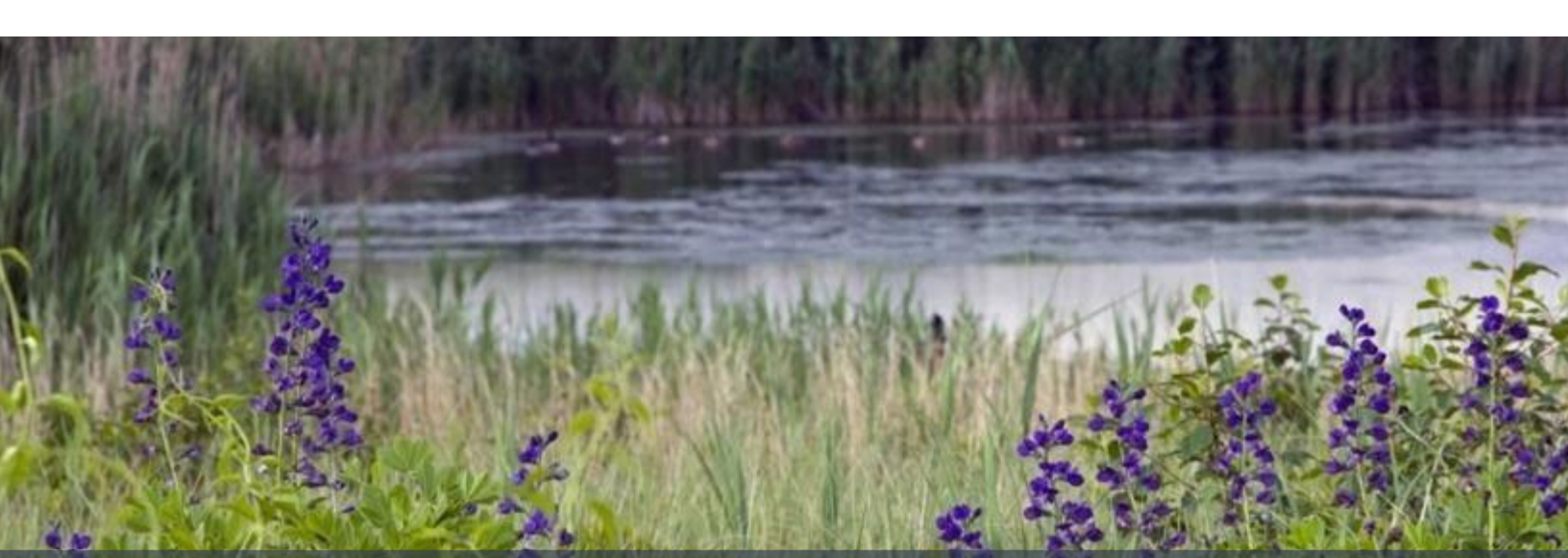
| Flushing Bay CSO | DEC Approved Milestones ⁽¹⁾ | Status |
|--------------------------------------|--|--|
| 1. Initiate Final Design | Jul 2021 | Force Majeure Submitted 9-16-20 – Delay Expected |
| 2. Design Completion | Jun 2025 | TBD Pending Design Start |
| 3. Notice to Proceed to Construction | Jul 2026 | TBD Pending Design Completion |
| 4. Construction Completion | June 2035 | TBD Pending Design Completion |

⁽¹⁾ Milestone dates may be subject to revision by DEC based on additional facility planning.

Flushing Creek CSO Schedule

| Flushing Creek CSO | DEC Approved Milestones ⁽¹⁾ | Status |
|--------------------------------------|--|---|
| 1. Initiate Final Design | Dec 2018 | Certified by DEP on Feb 8, 2019 |
| 2. Design Completion | Sept 2022 | Design in progress 27% design |
| 3. Notice to Proceed to Construction | Sept 2023 | TBD Pending Design Completion |
| 4. Construction Completion | Dec 2025 | TBD Pending Design Completion |

⁽¹⁾ Milestone dates may be subject to revision by DEC based on additional facility planning.



6. Jamaica Tributaries CSO

The Jamaica Tributaries CSO Facility Planning area includes the drainage area of the Jamaica WRRF 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.

Construction Contracts

| | Parallel 48-inch Siphon / Interceptor | Bending Weirs | Bergen Basin 18" Sewer |
|--------------------------|--|---|--|
| <i>Contract ID</i> | CS-JA-BBS | CS-JA-BWR | SEQ002714 |
| <i>Plan Elements</i> | Parallel 48-inch Sewer | Bending Weirs | 18-inch Sanitary Sewer |
| <i>Location</i> | Belt Parkway Queens | Regulator J6 on the East Interceptor and regulators J3 and J14 on the West Interceptor | 150 th Ave between 126 and 129 Streets |
| <i>Construction Cost</i> | \$20,256,909 | \$6,853,955 | \$4,990,000 |
| <i>Status</i> | Completed | Completed | In-Construction |
| <i>Other Issues</i> | | | |

Design Activity Summary

| This Quarter | | Next Quarter |
|-------------------------------------|--|--------------|
| Parallel 48-inch Siphon/Interceptor | <ul style="list-style-type: none"> Complete | |
| Bergen Basin 18" Sewer | <ul style="list-style-type: none"> Complete | |

Construction Activity Summary

| This Quarter | | Next Quarter |
|--|--|--------------|
| Parallel 48-inch Siphon/Interceptor | <ul style="list-style-type: none"> Certified completion on 2/28/17 | |
| 18-inch Sanitary Sewer in 150 th Avenue | <ul style="list-style-type: none"> DEC accepted certification of completion on 7/6/20 | |



7. Newtown Creek CSO

The Newtown Creek CSO Facility Planning area includes the portions of the Newtown Creek WRRF and the Low Level Interceptor of the Bowery Bay WRRF drainage areas that discharge to Newtown Creek, English Kills, Dutch Kills, Whale Creek, Maspeth Creek and the East Branch along the Brooklyn-Queens border.

Construction Contracts

| | Enhanced Aeration 2 | Bending Weirs / Floatables Control |
|--------------------------|--|---|
| Contract ID | CSO-NC-3 | CS-NC-REG & FLO |
| Plan Elements | Enhanced Aeration | Floatable Controls and Overflow Reduction |
| Location | East Branch and Upper Newtown Creek | Dutch Kills, Maspeth Creek, English Kills and East Branch |
| Construction Cost | \$16,704,250 (G+E+H Contract amounts together) | \$43,763,292 |
| Status | Certified Complete – 6/9/18 | Certified Complete – 11/22/2017 |
| Other Issues | | |

Design Activity Summary

| | This Quarter | Next Quarter |
|---|--|--------------|
| Enhanced Aeration 2 | <ul style="list-style-type: none"> Complete | |
| Bending Weirs / Floatables Control | <ul style="list-style-type: none"> Complete | |

Construction Activity Summary

| | This Quarter | Next Quarter |
|---|---|--------------|
| Enhanced Aeration 2 | <ul style="list-style-type: none"> Complete | |
| Bending Weirs / Floatables Control | <ul style="list-style-type: none"> DEP submitted Post Construction Monitoring on 8/19/2019 | |

Newtown Creek LTCP Approved on June 27, 2018

Newtown Creek CSO Schedule

| Borden Ave Pumping Station Expansion | DEC Approved Milestones | Status |
|---|--------------------------------|-------------------------------|
| 1. Initiate Final Design | Jul 2021 | DEP released RFP |
| 2. Design Completion | Dec 2024 | TBD Pending Design Start |
| 3. Notice to Proceed to Construction | Sept 2025 | TBD Pending Design Completion |
| 4. Construction Completion | Sep 2029 | TBD Pending Design Completion |

| CSO Storage Tunnel | DEC Approved Milestones | Status |
|--------------------------------------|--------------------------------|-------------------------------|
| 1. Initiate Final Design | Jun 2025 | DEP preparing RFP |
| 2. Design Completion | May 2028 | TBD Pending Design Start |
| 3. Notice to Proceed to Construction | Aug 2030 | TBD Pending Design Completion |
| 4. Construction Completion | Jun 2042 | TBD Pending Design Completion |



8. Westchester Creek CSO

The Westchester Creek CSO Facility Planning area includes a portion of the Hunts Point WRRF drainage area, its associated sewers, and pumping stations that discharge to Westchester Creek and Pugsley Creek in the Bronx.

Construction Contracts

| | 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 WRRF | Reduce CSO discharges to Pugsley Creek, which would otherwise <i>increase</i> because of the conveyance improvements in Eastchester Road |
| Location | Eastchester Road, Bronx | Classon Point, Bronx |
| Construction Cost | \$18.9 Million | \$85.1 Million |
| Status | Completed | Completed |
| Other Issues | | |

Design Activity Summary

| This Quarter | | Next Quarter |
|---|---|---|
| Modifications to CSO-29 and CSO-29A | <ul style="list-style-type: none"> • Provide DSDC services | <ul style="list-style-type: none"> • Completed |
| Pugsley Creek Parallel Interceptor Start from CSO-24 | <ul style="list-style-type: none"> • Completed | <ul style="list-style-type: none"> • Completed |

Construction Activity Summary

| | This Quarter | Next Quarter |
|---|--|--|
| Modifications to CSO-29 and CSO-29A | <ul style="list-style-type: none"> • Completed installation of FRP Weirs and Certified Consent Order Work completion. | <ul style="list-style-type: none"> • DEC final inspection scheduled for October 23rd. |
| Pugsley Creek Parallel Interceptor Start from CSO-24 | <ul style="list-style-type: none"> • Contract work completed for the diversion chamber • Contractor completed all sewer work 75 days ahead of construction completion milestone date | <ul style="list-style-type: none"> • Consent Order Work Completed |



9. Bronx River CSO

Bronx River LTCP Approved on March 7, 2017

Bronx River CSO Schedule

| Bronx River CSO | DEC Approved Milestones ⁽¹⁾ | Status |
|--------------------------------------|--|----------------------------------|
| 1. Initiate Final Design | Sept 2018 | Design Initiated 8/27/2018 |
| 2. Design Completion | Sept 2022 | Design in progress 10% design |
| 3. Notice to Proceed to Construction | Sept 2023 | TBD Pending Design Completion |
| 4. Construction Completion | Sept 2026 | TBD Pending Design Completion |

⁽¹⁾ Milestone dates may be subject to revision by DEC based on additional facility planning.



10. Hutchinson River CSO

Hutchinson River LTCP Approved on March 7, 2017

Hutchinson River CSO Schedule

| Hutchinson River CSO | DEC Approved Milestones ⁽¹⁾ | Status |
|--------------------------------------|--|----------------------------------|
| 1. Initiate Final Design | Sept 2018 | Design Initiated 8/15/2018 |
| 2. Design Completion | Sept 2022 | Design in progress <5% design |
| 3. Notice to Proceed to Construction | Sept 2023 | TBD Pending Design Completion |
| 4. Construction Completion | Mar 2026 | TBD Pending Design Completion |
| 1. Initiate Final Design | Sept 2022 | Design Initiated 8/15/2018 |
| 2. Design Completion | Mar 2026 | Design in progress <5% design |
| 3. Notice to Proceed to Construction | Mar 2027 | TBD Pending Design Completion |
| 4. Construction Completion | Mar 2030 | TBD Pending Design Completion |

⁽¹⁾ Milestone dates may be subject to revision by DEC based on additional facility planning.



11. Jamaica Bay CSO

The Jamaica Bay CSO Facility Planning area includes the drainage areas of the 26th Ward, Coney Island, and Rockaway WRRFs 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.

Construction Contracts

| | Rockaway WWTP Conveyance Improvements | 26 th Ward High Level Sewer Separation | 26 th Ward Wet Weather Stabilization |
|--------------------------|---|--|--|
| Contract ID | Project not yet initiated | CS-FC-SEW | 26W-12(CO 128) 26W-21, 26W-20 |
| Plan Elements | Achieve 2xDDWF at WWTP | Remove storm water contribution from 285 acres from the combined sewer system | Low Level MSPs High Level MSPs PST#5 PST1-4 Stabilization |
| Location | Rockaway WWTP, Queens | Fresh Creek, Brooklyn | 26 th Ward WWTP, Brooklyn |
| Construction Cost | TBD | \$58 million for Phase 1A \$90.6 million for Phases 2A and 2B 235.5 million for Phases 3A and 3B (estimated) | LLMSP \$7.6 million 26W-21 \$17.3 million 26W-20 \$145 million |
| Status | Project not yet initiated. In discussions with DEC. | Phase 1A construction completed, with variance from approved design Phase 2 is in construction Phase 3 is in preliminary design | Completed (LLMSPs) Completed (26W-21) In Construction (26W-20) |
| Other Issues | | For Phase 2B (SE855): NYCHA steam pipes were discovered during construction that interfere with storm/high level storm sewers in four locations. | |

DEP and DDC hired consultant to perform design for NYCHA steam pipes offset. For Phase 3A (SE856): it was previously identified interferences with Buckeye Pipelines in four locations. Preliminary design around Buckeye Fuel Lines is prepared by DDC and submitted to Buckeye Partners, L.P. Buckeye requested that DDC include their existing utility locations on the design drawings. DEP review of the preliminary design drawings is complete. DDC is incorporating DEP comments and will then submit revised drawings for Buckeye review. For Phase 3B (SE857): low cover issues have been addressed and a preliminary design review has been completed by DEP.

Design Activity Summary

| | This Quarter | Next Quarter |
|--|---|--|
| 26th Ward High Level Sewer Separation | <ul style="list-style-type: none"> • Design support for Phase 2B to resolve NYCHA Steam Pipe Interferences • Continue design of Phase 3 | <ul style="list-style-type: none"> • Continue/Complete design for Phase 2B associated with NYCHA Steam Pipe Interferences • Continue design of Phase 3 |
| 26th Ward Preliminary Treatment Reliability Improvements | <ul style="list-style-type: none"> • Continued DSDC | <ul style="list-style-type: none"> • Continuation of DSDC |

Construction Activity Summary

| | This Quarter | Next Quarter |
|---|---|---|
| 26th Ward High Level Sewer Separation | <ul style="list-style-type: none"> • <u>Phase 2A (SE853)</u> • Completed work in Q2: <ul style="list-style-type: none"> - Outfall Work Completed 6/24/2020 - Completed installation of Chamber No. 3 in the intersection of Louisiana Avenue and Glenwood Road - Completed Installation of catch basins and chutes on Louisiana Avenue/Cozine Avenue intersection - Continued installation of stelcor piles for 4' X 2.5' Single Barrel Storm Sewers (SBSS) in Louisiana Avenue between Stanley Avenue and Wortman Avenue - Continued sidewalk restoration on Louisiana Avenue between Flatlands Avenue and Glenwood Road • Commenced work in Q3: <ul style="list-style-type: none"> - Commenced installation of Chamber No. 3 in the intersection of Louisiana Avenue and Glenwood Road | <ul style="list-style-type: none"> • <u>Phase 2A (SE853)</u> • Complete installation of stelcor piles in Louisiana Avenue between Stanley Avenue and Wortman Avenue • Complete Installation of SB Storm Sewer in Louisiana Avenue between Stanley Avenue and Wortman Avenue • Continue installation of catch basins and chutes on Louisiana Avenue/Wortman Avenue intersection • Continue sidewalk and pavement restoration throughout scope of work |
| | <ul style="list-style-type: none"> • <u>Phase 2B (SE855)</u> • DEP continues to explore options to resolve the NYCHA Steam Pipe Issue. • DEP and DDC are evaluating feasibility of NYCHA steam facilities relocation. The lack of records and age of the infrastructure makes this particularly challenging. • Road Restoration site-wide • Catch basin and chute installation at various locations | <ul style="list-style-type: none"> • <u>Phase 2B (SE855)</u> • DEP and DDC evaluation of the NYCHA steam pipe relocations. • Road Restoration Sitewide • Catch Basin and Chute Connection installation in various locations • Perform TV inspection for sewer system |

| | This Quarter | Next Quarter |
|--|--|--|
| | <ul style="list-style-type: none"> Completed installation of 12" Water Main in intersection of Snediker Avenue and Stanley Avenue Completed work on 13'Wx4'H SB Storm Sewer in East 108th Street between Flatlands Avenue and Stanley Avenue and on Stanley Avenue between East 108th Street and Snediker Avenue Completed work on 53"Wx34"H Storm Sewer on Stanley Avenue between Snediker Avenue and Williams Avenue Completed installation of 8" and 20" Water Mains in Snediker Avenue between Stanley Avenue and Dewitt Avenue | |
| <p align="center">26th Ward Preliminary Treatment Reliability Improvements</p> | <p><u>PST work (26W-20):</u></p> <ul style="list-style-type: none"> Completed rehabilitation of expansion joints in PST-4 under Change Order #103. Successfully brought PST-4 back online. Continued demolition and rehabilitation of expansion joint in PST-3 including rebuilding the concrete joint face at all expansion joint locations. Continued PST-3 concrete rehabilitation and installation of sludge collector system. Completed 42" RS piping for PST-3. Dropped and cleaned PST-2. Also in PST-2 began demolition of existing collector system and existing concrete structures, concrete rehabilitation, and CO-103 demolition of existing expansion joints. Tied in seal water piping to Sludge Pumps 4, 5, and 6. Started up the pumps. Continued handrails around PST-3 and 4. Performed troubleshooting of IGB start-up issues. Adjusted sheaves in new Sludge Pumps. Continued pulling wire to equipment in PSG. | <p><u>PST work (26W-20):</u></p> <ul style="list-style-type: none"> CO-103 work: Complete rehabilitation of expansion joints in PST-3. Continue demolition of existing expansion joints in PST-2. Start installation of Physite (water stop joint seal) in PST-2 including rebuilding the concrete joint face at all expansion joint locations in PST-2. Perform dry run of PST-3. Perform clean water test and bring PST-3 on-line with sewage. Drop and clean PST-1. Start demolition of existing collector system, begin concrete rehabilitation work, begin CO-103 demolition of existing expansion joints. Continue rehab of PST-2 and start installation of sludge collection equipment. Replace existing Sludge Pump #3 in PSG. |

| This Quarter | Next Quarter |
|--|--|
| <ul style="list-style-type: none"> • Installed and brought into service new submersible flowmeter in MV-1. • Completed installation of curtain wall around the MCC-25 Building. Completed MCC-25 Bldg. roof and installed green roof and pavers on top of it. • Continued 5KV conduit installation to BNR Building. • Completed first floor Personnel areas of P&BH. • Continued 2nd floor Supervisor's Personnel area work. | <ul style="list-style-type: none"> • Continue 2nd floor Supervisor's Personnel area work. • Continue to install permanent 78" FM pipe. • Complete 5KV conduit installation to BNR Building. • Complete repair of MCC-4N crisscross. • Install temporary seal water piping to Sludge Pumps #1 and #2. • Demolish Seal Water System in PSG. • Install conduits and wire to GTO flowmeter in MV-2. |



12. Wards Island WRRF Headworks Wet Weather Improvements

The Wards Island WRRF Headworks Wet Weather Improvements consist of work done at the WRRF 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).

Construction Contracts

| | MSP Reconstruction | Bar Screen Replacement |
|--------------------------|--------------------------------|--|
| Contract ID | WI - 288(R) | WI - 280 |
| Plan Elements | Reconstruction of Six (6) MSPs | Replace Bar Screens at Bronx and Manhattan Grit Chambers |
| Location | Wards Island WRRF | Wards Island WRRF |
| Status | Completed | Completed |
| Construction Cost | \$5,292,653 | \$13,715,000 |
| Other Issues | None | None |

Design Activity Summary

| This Quarter | | Next Quarter |
|------------------------|--|--------------|
| MSP Replacement | <ul style="list-style-type: none"> Complete | |
| Bar Screen Replacement | <ul style="list-style-type: none"> Complete | |

Construction Activity Summary

| This Quarter | | Next Quarter |
|------------------------|---|--|
| MSP Replacement | <ul style="list-style-type: none"> Completed reconstruction of the 6th MSP (MSP#3 on July 24, 2019) | <ul style="list-style-type: none"> DEC inspection of replacement work |
| Bar Screen Replacement | | |



13. Environmental Benefit Projects

DEP has undertaken these projects in connection with the settlement of a New York State and DEC enforcement action. The Environmental Benefit Projects (EBPs) are funded by DEP and 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.

The 2008 modifications to the CSO Consent Order require not less than \$4 million worth of DEP-funded 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. In addition to the EBPs summarized below, the 2012 Order requires that \$2 million in EBP funding be allocated toward the Hutchinson River and Newtown Creek Neighborhood Demonstration Areas. That funding commitment was met and the Demonstration Area projects are now complete. DEP preparing certification to submit to DEC.

➤ **New York Hospital Green Roof**

Manhattan College

\$660,440 for the installation of a 14,666-sq- ft modular green roof project. It will be designed to control runoff from a 1 to 1.5-inch rainfall on a half-acre roof.

Status: Monitoring Complete

Invoiced to Date: \$555,161.



➤ **Rego Park Green Streets**

NYC Audubon Society

\$580,245 for Green Street stormwater capture system that will retrofit an impervious surface and replace it with permeable pavement and vegetation to capture runoff from 7,753-sq-ft tributary area.

Status: Monitoring Ongoing

Invoiced to Date: \$657,250



➤ **Two Sponge Park™ Bioretention Basins**

Regional Plan Association

\$600,000 for bioretention basins under the Long Island Expressway near the Van Wyck Expressway. One basin has the capacity to treat 1,280 gallons, and the second basin has the capacity to treat 2,460 gallons of runoff. Monitoring at this site has ended, discussion with NYC Parks to take over maintenance.

Status: Monitoring Complete

Invoiced-to-Date: \$481,215



➤ **6th Street Green Corridor Project**

Gowanus Canal Conservancy

\$583,470 to build 11 curbside swales ranging from 400 to 1,200 sf along 6th St from 2nd Ave to 4th Ave in Brooklyn. The project will capture one inch storm runoff generated within the eleven-swale area, which consists of over 35,400 sf of street and sidewalk surfaces.

Status: Monitoring Complete

Invoiced-to-Date: \$528,631



➤ **Treatment Wetland and Rain Garden**

City Parks Foundation

\$504,340 for treatment wetlands and rain gardens for treating stormwater entering Meadow Lake. This project will construct a 10,000-sf treatment wetland that will receive runoff from two one-acre portions of a parking area in Flushing Meadows Corona Park. The treatment wetland is designed to capture over 76,000 gallons of water generated by each 1.2 -inch rainstorm.

Status: Monitoring Complete

Invoiced to Date: \$497,263



➤ **Green Infrastructure**

Drexel University

\$893,493 to design, construct and monitor a variety of green infrastructure stormwater capture technologies that also promote ecosystem services in the Bronx River watershed. Project construction completed at Bronx High School of Science and Flushing International High School.

Status: Monitoring Complete

Invoiced to Date: \$814,599





14. Green Infrastructure Program

The 2012 CSO Consent 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.

Program Implementation

DEP has identified Priority Areas based on several criteria, such as annual CSO volume, frequency of CSO events, and projected benefits of projects constructed through DEP's Waterbody/Watershed Facility Plans or other system improvements planned. 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 curbside rain gardens, Stormwater Greenstreets, 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



Curbside Rain Garden (Bioswale)



Stormwater Greenstreet

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 **Third Quarter of 2020**, planning, design and construction work continued in three Green Infrastructure (GI) Program initiatives and are generally summarized below.

- Ongoing Area-wide GI contracts to design and build thousands of curbside rain gardens and Stormwater Greenstreets. 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 GI Grant Program projects on private property.



Playground Retrofit



Porous Pavement – Queens College Green Infrastructure Grant Program

Status of Green Infrastructure Assets and Greened Acres

| Watershed | Total Green Infrastructure Assets | Total Greened Acres |
|---------------------------|-----------------------------------|---------------------|
| Alley Creek | 0 | 0 |
| Bronx River | 474 | 59 |
| Coney Island Creek | 2 | 1 |
| East River / Open Waters | 883 | 195 |
| Flushing Bay | 764 | 78 |
| Flushing Creek | 1,654 | 165 |
| Gowanus Canal | 116 | 13 |
| Hutchinson River | 213 | 42 |
| Jamaica Bay & Tributaries | 4,224 | 514 |
| Newtown Creek | 1,476 | 141 |
| Westchester Creek | 226 | 21 |
| Total | 10,032 | 1,230 |

Status of Green Infrastructure 1.5% Contingency Plan Projects¹

| Waterbodies | Area-Wide ROW Project | Status as of September 2020 | | Reported Completion Date [1] | Projected Completion Date as of September 2020 |
|-------------------|-----------------------|-----------------------------|-----------------------------|------------------------------|--|
| | | Number of Bids | Issued/Anticipated NTP Date | | |
| Flushing Creek | TI-011 | Construction Bid 1 | Jun-16 | Dec-19 | Jun-17 |
| | | Construction Bid 2 | Sep-18 | | Jun-20 |
| Newtown Creek | BB Cluster | Construction Bid 1 | Jan-17 | Dec-19 | Mar-19 |
| | | Construction Bid 2 | Aug-19 | | Dec-20 |
| Jamaica Bay | JAM-003 | Construction Bid 1 | Aug-16 | Dec-19 | Dec-17 |
| | | Construction Bid 2 | Jan-19 | | Jul-20 |
| | | Construction Bid 3 | Jul-19 | | Jun-20 |
| | | Construction Bid 4 | TBD | | TBD |
| | | Construction Bid 5 | Dec-19 | | Apr-21 |
| EROW/Wallabout | NCB-014 | Construction Bid 1 | Sep-18 | Dec-20 | Dec-19 |
| | | Construction Bid 2 | Dec-19 | | Jul-21 |
| EROW/Bowery Bay | BB-005 | Construction Bid 1 | TBD | Dec-20 | TBD |
| | | Construction Bid 2 | TBD | | TBD |
| Westchester Creek | HP-014/033/016 | Construction Bid 1 | Jul-19 | Dec-20 | Dec-20- |
| | | Construction Bid 2 | Jul-19 | | |
| Flushing Creek | TI-010 | Construction Bid 1 | Sep-19 | Dec-20 | Dec-20 |
| | | Construction Bid 2 | TBD | | TBD |
| | | Construction Bid 3 | Dec-19 | | Dec-21 |
| | | Construction Bid 4 | Dec-19 | | Dec-21 |
| | | Construction Bid 5 | Jun-20 | | Dec-21 |
| | | Construction Bid 6 | Dec-19 | | Apr-21 |
| Bronx River | HP-007/004/002 | Construction Bid 1 | Nov-19 | Dec-20 | Dec-20 |
| | | Construction Bid 2 | Nov-19 | | Dec-20 |
| Jamaica Bay | 26W-005/004 | Construction Bid 1 | Dec-19 | Dec-20 | Dec-20 |

¹ The information in the above Table is correct as of September 30, 2020.

| | | | | | |
|--|--|--------------------|--------|--|---------------|
| | | Construction Bid 2 | Dec-19 | | Dec-20 |
| | | Construction Bid 3 | Dec-19 | | Dec-20 |
| | | Construction Bid 4 | Dec-19 | | Dec-20 |
| | | Construction Bid 5 | Dec-19 | | Dec-20 |

[1] The Anticipated Construction Completion date as reported in the June 27, 2016 Contingency Plan



15. Community Relations

*DEP's Public Participation Plan was released to the public on **June 26, 2012** and describes the multi-pronged tools and activities DEP will utilize to inform and involve diverse stakeholders and the broader public throughout the LTCP process. The Plan provides a framework for communicating with and soliciting input from interested stakeholders on water quality and the challenges and opportunities for CSO controls.*

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.

LTCP and Green Infrastructure Education & Outreach Meetings

Due to the COVID-19 pandemic, DEP did not have any LTCP specific public meetings in Quarter 3. A Green Infrastructure workshop was held virtually on August 18th. DEP answered multiple questions related to the LTCP Program.

Updates on the LTCP Program including the submission of the Open Waters/Citywide LTCP are being shared with the public through the DEP website at nyc.gov/dep/ltcp.



16. Key DEP Personnel

| Planning Area | Project | DEP Responsible Personnel | | |
|---------------------|---|---------------------------|------------|-----------|
| | | Bureau | PM | AM |
| Alley Creek | CSO-AC-DF-DES: Alley Creek CSO Disinfection | BEDC | Osit | Romano |
| Inner Harbor | CSO-GC: Flushing Tunnel | BEDC | Clarke | Joseph |
| | CSO-GC: Gowanus PS | BEDC | Clarke | Joseph |
| Flushing Bay | CSO-DRDG: Dredging | BEDC | Tysvaer | Sewgobind |
| | CS-FB-LLD: Low-Lying Sewers | BWSO | Gordon | Dopson |
| | CS-FB-LLD R2 Weir | BWT | TBD | TBD |
| | CS-FB-BWR: Regulators | BEDC | Tysvaer | Gordon |
| | CSO-FC-FB-DES: Flushing CSO Floatables Control | BEDC | Tysvaer | Betemit |
| | CSO-FC-DF-DES: Flushing CSO Disinfection Facility | BEDC | Tysvaer | Betemit |
| | CSO-FB-TUN: Flushing Bay CSO Storage Tunnel | BEDC | Osit | Liu |
| Jamaica Tributaries | 18" Sanitary Sewer in 150th Avenue | BWSO | Gordon | Dopson |
| Newtown Creek | CSO-NC-4: Dutch Kills, Lower Newtown | BEDC | Tysvaer | Ekhlas |
| | CSO-NC-3: East Branch, Upper Newtown | BEDC | Tysvaer | Ekhlas |
| | CSO-NC-2: Enhanced Aeration Lower English Kills | BEDC | Tysvaer | Adabi |
| | CS-NC-REG&FLO: Regulators / Floatables Control | BEDC | Tysvaer | Ekhlas |
| Westchester Creek | CS-ER-WCM: Modifications to CSO-29 / 29A | BEDC | Tysvaer | Betemit |
| | CS-ER-WCP: Pugsley Creek Parallel Interceptor | BWSO | Proscia | DeGrace |
| Bronx River | CSO-BXR-DES: Bronx River LTCP | BEDC | Solimando | Lochner |
| Hutchinson River | CSO-HR-DF-DES: Hutchinson River Disinfection | BEDC | Tysvaer | Szeto |
| Jamaica Bay | CS-FB-SEW: 26th Ward / Fresh Creek HLSS | BWSO | Gordon | Dopson |
| | 26W-20: 26th Ward Wet Weather Stabilization | BEDC | Solimando | Heim |
| | 26W-21: 26th Ward High Level MSPs | BEDC | Solimando | Heim |
| Wards Island | Reconstruction of MSP | BWT | Anderson | Anderson |
| EBP | Environmental Benefit Projects | BEPA | McLaughlin | Chen |
| GI | Green Infrastructure | BEPA | Enoch | Kocovic |



17. Overview of LTCP Program

The goal of each Long-Term Control Plan (LTCP) is to identify appropriate CSO controls necessary to achieve waterbody-specific quality standards, consistent with EPA's 1994 CSO Policy and subsequent guidance.

LTCP Milestones

| | CSO Watershed | LTCP Milestone | Status |
|----|--|-----------------------|--|
| 1 | Alley Creek | June 2013 | Approved 3/7/17 |
| 2 | Westchester Creek | June 2014 | Approved 8/1/17 |
| 3 | Hutchinson River | September 2014 | Approved 3/7/17 |
| 4 | Flushing Creek | December 2014 | Approved 3//7/17 |
| 5 | Bronx River | June 2015 | Approved 3/7/17 |
| 6 | Gowanus Canal | June 2015 | Approved 3/29/17 |
| 7 | Coney Island Creek | June 2016 | Approved 4/4/18 |
| 8 | Flushing Bay | December 2016 | Approved 3/7/17 |
| 9 | Newtown Creek | June 2017 | Approved 6/27/18 |
| 10 | Jamaica Tributaries & Bay ¹ | June 2018 | DEC provided supplemental comments document 10/11/19 |
| 11 | Citywide/Open Waters ² | May 2020 | Submitted |

1) Citywide/Open Waters include Harlem River, Hudson River, East River, and Upper and Lower New York Bay. Modification Request for extension of Citywide/Open Waters LTCP to December 31, 2018 approved by DEC on June 27, 2017. Additional Modification **Request for an extension of Citywide/Open Waters LTCP to May 30, 2020 approved by DEC on March 23, 2020**

New York City CSO Watersheds

1





18. Status of LTCP Development

*The status of all Long-Term Control Plan development is described below.
All Waterbody/Watershed Facility Plans (WWFPs) have been approved.*

LTCP Activity Status

| CSO Watershed | Alley Creek ¹ | Westchester Creek ² | Hutchinson River ³ | Flushing Creek ⁴ | Bronx River ⁵ | Gowanus Canal ⁶ | Coney Island ⁷ | Flushing Bay ⁸ | Newtown Creek ⁹ | Jamaica Bay ¹⁰ | Citywide/ Open Waters |
|--------------------------|--------------------------|--------------------------------|-------------------------------|-----------------------------|--------------------------|----------------------------|---------------------------|---------------------------|----------------------------|---------------------------|--------------------------|
| LTCP Due Date | June 2013 | Jun 2014 | Sept 2014 | Dec 2014 | Jun 2015 | Jun 2015 | Jun 2016 | Dec 2016 | Jun 2017 | Jun 2018 | Mar 2020 |
| Waterbody Startup | | | | | | | | | | | |
| Sampling | | | | | | | | | | | |
| Modeling | | | | | | | | | | | |
| Alternatives Development | | | | | | | | | | | |
| LTCP Development | | | | | | | | | | | |
| Public Participation | | | | | | | | | | | |
| Approval Date | Mar 2017 | Aug 2017 | Mar 2017 | Mar 2017 | Mar 2017 | Mar 2017 | Apr 2018 | Mar 2017 | Jun 2018 | Pending | Pending |

LEGEND: = Completed = In Progress = Not Initiated

¹Final Alley Creek LTCP previously submitted to DEC June 30, 2013. Received DEC Determination Letter in December 12, 2013. DEP filed Article 78 proceeding on February 21, 2014. LTCP resubmitted to DEC on June 30, 2014. DEC Comments Letter received January 23, 2015. Supplemental Documentation submitted May 6, 2015.

²Final Westchester Creek LTCP submitted to DEC in June 30, 2014. DEC Comments Letter received September 22, 2014. Response Letter submitted November 24, 2014. Additional DEC Comments Letter received January 14, 2015. Response Letter and Supplemental Documentation submitted April 14, 2015. DEC Comment Letter received June 6, 2017. Response Letter submitted July 11, 2017.

³Final Hutchinson River LTCP submitted to DEC in September 30, 2014. DEC Comments Letter received January 14, 2015. Supplemental Documentation submitted April 14, 2015.

⁴Final Flushing Creek LTCP submitted to DEC in December 30, 2014. DEC Comments Letter received January 23, 2015. Supplemental Documentation submitted May 22, 2015.

⁵Final Bronx River LTCP submitted to DEC in June 30, 2015. DEC Comments Letter received August 24, 2015. Supplemental Documentation submitted September 23, 2015.

⁶Final Gowanus Canal LTCP submitted to DEC in June 30, 2015. DEC Comments Letter received August 5, 2015. Supplemental Documentation submitted September 8, 2015.

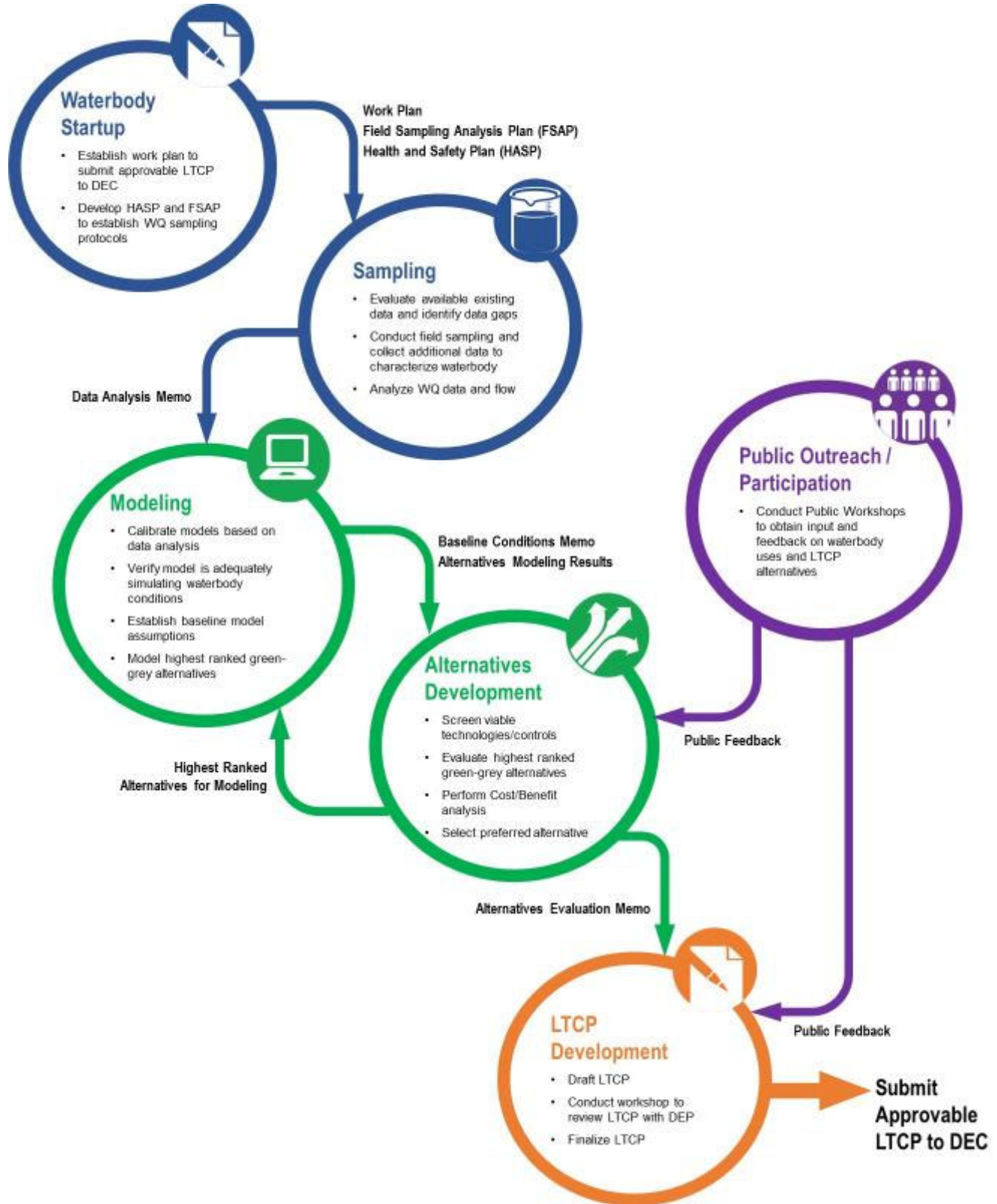
⁷Final Coney Island Creek LTCP submitted to DEC in June 30, 2016. DEC Comments Letter received August 17, 2016. Response Letter submitted September 16, 2016. DEC Comments Letter received April 6, 2017. Response Letter submitted October 2, 2017. DEP issued letter to DEC on December 5, 2017 based on discussions during October 18, 2017 DEC/DEP Technical Meeting. DEC Comments Letter received December 8, 2017. DEP submitted response letter on February 2, 2018.

⁸Final Flushing Bay LTCP submitted to DEC in December 31, 2016.

⁹Final Newtown Creek LTCP submitted to DEC in June 30, 2017. DEC Comments Letter received November 4, 2017. DEP submitted response letter January 8, 2018.

¹⁰Jamaica Bay and Tributaries LTCP submitted June 30, 2018. DEC Comment Letter dated December 21, 2018. Response Letter submitted March 1, 2019. Supplemental Documentation submitted August 14, 2019. DEC Comment Letter dated October 11, 2019.

LTCP Work Plan Flow Chart





19. LTCP Progress Update

| CSO Watershed | LTCP Milestone | Progress Update |
|------------------------------------|----------------|--|
| Jamaica Tributaries and Bay | June 2018 | <ul style="list-style-type: none"> ➤ DEP submitted Jamaica Bay and Tributaries LTCP Supplemental Documentation on August 14, 2019. ➤ DEC Comment Letter was received on October 11, 2019. DEP and DEC held a Technical Meeting on October 30, 2019 to discuss the comments. ➤ DEP is preparing a DEC Comment Response Letter. |
| Citywide/ Open Waters | September 2020 | <ul style="list-style-type: none"> ➤ Selected the Citywide/Open Waters LTCP Retained Alternatives and released the Citywide/Open Waters LTCP Retained Alternatives Summary. ➤ Continued the development and evaluation of Citywide/Open Waters LTCP Retained Alternatives. ➤ Submitted the Citywide/Open Waters LTCP on September 30, 2020. |



20. Citywide/Open Waters LTCP Update

DEP submitted the Citywide/Open Waters LTCP on September 30, 2020.