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Acting Commissioner

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Albany, New York 12233-3506

James Mueller, P.E. Acting Deputy Commissioner DEC Case No. CO2-20000107-8)
Citywide CSO Program - Quarterly Report

Dear Mr. DiMura:

Re:

Bureau of Engineering Design & Construction 96-05 Horace Harding Expressway- 2nd Floor, Corona, NY 11368

Tel. (718) 595-5973 Fax (718) 595-5999 In accordance with the above named CSO Order on Consent, the New York City Department of Environmental Protection hereby submits the Citywide CSO Quarterly Report for the period of April 1 through June 30, 2017. The next Quarterly Meeting date and location is to be determined.

CSO Order on Consent (DEC Case No. CO2-20110512-25, modification to

Should you require further information, please contact me at (718) 595-5972.

Sincerely,

Keith Mahoney, P.E.

Acting LTCP Program Manager

Copy to:

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

CSO Order on Consent Quarterly Progress Report

Second Quarter 2017

(April 1st – June 30th)

July 30, 2017

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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 **April 1, 2017** and **June 30, 2017**. 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 28, 2017 at Hazen and Sawyer's New York City Office** to discuss issues related to the Order and review milestones met during the second quarter of 2017.

On March 7, 2017 DEC approved the Alley Creek, Flushing Creek, Flushing Bay, Hutchinson River and Bronx River LTCPs. On March 29, 2017 DEC approved the Gowanus Canal LTCP. As such, the Quarterly Report will now also report on the status of the approved LTCP projects.

Reportable Activity This Quarter

Date	Location	Event Description
April 3, 2017	Jamaica Bay	XII.K.7. – 26 th Ward Completion for High Level Main Sewage Pumps – DEC granted 4 extra days to August 4, 2018.
April 6, 2017	Coney Island Creek	VII.I. Coney Island Creek LTCP – DEC requested additional information and comments on the LTCP.
April 28, 2017	Jamaica Bay	XII.L. – Jamaica Bay/Tribs LTCP – DEP requested milestone modification, from June 30, 2017 to June 30, 2018.
May 2, 2017	Jamaica Bay	XII.I.10. – 26 th Ward – High Level Sewer Separation – DEP certified initiation of design of 26 th Ward HLSS, Phase 3.
May 3, 2017	Jamaica Bay	XII.I.7. – 26 th Ward – High Level Sewer Separation – DEC acknowledged receipt of certification of design completion milestone of 26 th Ward HLSS, Phase 2.
May 4, 2017	Wards Island	V.C. – Hydraulic Analysis of Capacity of the Wards Island WWTP – DEC reviewed and requested confirmation that update to the Wet Weather Operating Plan is warranted.
May 23, 2017	City-wide LTCP	VIII.A. City-Wide LTCP – DEC acknowledges receipt of a revised Field Sampling Analysis Plan (FSAP) for Long Island Sound and Upper East River.
May 26, 2017	Jamaica Bay	XII.I.3. 26 th Ward – High Level Sewer Separation – DEC commented on the Final Design for HLSS Phase 2
June 6, 2017	Westchester Creek	IX. Westchester Creek CSO, G. Submit Approvable Drainage Specific LTCP for Westchester Creek – DEC requested more information on why the projected levels of attainment for the primary contact recreational standard differ from the levels presented in the June 2014 LTCP.
June 6, 2017	Jamaica Bay	XII. Jamaica Bay CSO, L. SubmitApprovable Drainage Basin Specific LTCP for Jamaica Bay/Tributaries, Modification Request – DEC approves modification request for June 2018 with 3 conditions.
June 12, 2017	Jamaica Bay	XII. Jamaica Bay CSO, I. 26 th Ward High Level Sewer Seperation, 10. Phase 3 – Initiate Design. DEC acknowledges that the milestone has been met.
June 14, 2017	Wards Island	Paragraph V. C, Hydraulic Capacity Analysis of the Capability of the WI WWTP to Maximize Flows and Treat an Average of 2xDDWF – DEP responded to DEC comments.
June 21, 2017	Jamaica Bay	XII. Jamaica Bay CSO, L. SubmitApprovable Drainage Basin Specific LTCP for Jamaica Bay/Tributaries, Modification Request – DEP agrees with DEC conditions for the modification request for June 2018.
June 27, 2017	Jamaica Bay CSO	XII. Jamaica Bay CSO, K. 26 th Ward Preliminary Treatment Reliability Improvements, 9. Construction Completion for Preliminary Treatment Reliability Improvements to PST #1 to #4 and Construction of PST #5, Reponse to Force Majeure – DEC acknowledges and agrees to Force Majeure

Date	Location	Event Description
June 27, 2017	Citywide	XIV, Citywide CSO, A. Submit Approvable City-wide LTCP, Modificatiuon request – DEC approves Modification Request for December 2018
June 27, 2017	Flushing Bay	 V. Flushing Bay CSO, J. Divert Low Lying Sewers/Raise Weir BB-R02 4. Construction Completion, Response to Force Majeure and Milestone Modification Request DEC requests additional information to be submitted within 10 days. DEP provided additional information as requested.
June 27, 2017	Jamaica Bay	XII. Jamaica Bay CSO, L. SubmitApprovable Drainage Basin Specific LTCP for Jamaica Bay/Tributaries, Modification Request – DEC approves Modification request for June 2018
June 27, 2017	Wards Island	XIV. Wards Island WWTP Headworks Wet Weather Improvements, A. Reconstruction of Main Sewage Pumps, 2. Construction Completion for MSP replacement at Wards Island WWTP, Response to Force Majeure – DEC requests additional information.
June 27, 2017	Westchester Creek	IX Westchester Creek CSO, E. Modifications to CSO-29 and CSO-29A, 4. Construction Completion, Response to Force Majeure – DEC acknowledges Force Majeure and reqwuests an update on the extent of the delay.
June 30, 2017	Post Construction Monitoring	DEP submits CSO Post Construction Compliance Monitoring and CSO Retention Facility Overflow Summary.

Milestone Actions This Quarter

Location	Item Description	Milestone Date	Action Required	Status
Jamaica Bay	26 th Ward HLSS Phase III	April 30, 2017	Design Initiation	Completed May 2, 2017
Newtown Creek	Long Term Control Plan	June 2017	Submit Final LTCP	Completed June 30, 2017
Jamaica Bay	Long Term Control Plan	June 2017	Submit Final LTCP	Modification Requested

Milestone Actions Next Quarter

Location	Item Description	Milestone Date	Action Required	Status
Jamaica Bay	Lateral Sewer and Removal of Homes from Intercepting Sewer	July 2017	Design Initiation	Pending

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

Location	Item Description	Action(s)	Reason for Action(s)	Milestone Date	Status
Flushing Bay	Low Lying Sewers/Raise Weir at BB- RO2	 DEP submitted FM (groundwater conditions) and MR (precast manhole) 11/14/16 DEC requested additional information relating to FM 01/11/17 DEP supplemented its FM claim and MR 06/27/2017 	 Unexpected groundwater conditions at excavation site caused 125-day delay (FM) Contrctor's use of precast manhole caused 211-day delay (MR) 	Dec 2016	Construction Ongoing
Newtown Creek	VIII.K.4 Bending Weir / Floatables Control	 DEP submitted FM 10/9/15 DEC accepted FM claim 11/2/15 and requested updates 	 Subsurface obstructions at Q-1 regulator site that were not identified during design phase 	Dec 2017	Construction ongoing
Newtown Creek	VIII.K.4 Bending Weir / Floatables Control	 DEP Submitted FM 2/2/17 DEC accepted FM 3/21/17 DEP to update on extent of delays and mitigation efforts 	 Extensive structural repairs are required to the diversion chamber to install baffles 	Dec 2017	Construction ongoing
Jamaica Bay	XII.K.8 26 th Ward WWTP Preliminary Treatment Reliability Improvements	 DEP submitted FM 12/30/15 DEC accepted FM 2/29/16 DEP to update on extent of delays and mitigation efforts 	 Discovery of a void in a portion of an abandoned outfall structure 	Jul 2018	Construction ongoing
Jamaica Bay	XII.K.9 26 th Ward WWTP Preliminary Treatment Reliability Improvements to PSTs #1 and PST #4, and construction of PST #5	 DEP submitted FM 8/17/16 DEC accepted FM 12/9/16 DEP to update on extent of delays and mitigation efforts 	Unexpected rupture of sludge line during a routine operation	XII.K.9 Jul 2020	Construction Ongoing

Location	Item Description	Action(s)	Reason for Action(s)	Milestone Date	Status
Jamaica Bay	XII.K.9 26 th Ward WWTP Preliminary Treatment Reliability Improvements to PSTs #1 and PST #4, and construction of PST #5	 DEP submitted FM 1/9/17 DEC accepted FM 1/17/17 DEP to update on extent of delays and mitigation efforts 	Conflicting Pipes obstruct planned work	Jul 2020	Construction Ongoing
Jamaica Bay	XII.K.9 26 th Ward WWTP Preliminary Treatment Reliability Improvements to PSTs #1 and PST #4, and construction of PST #5	 DEP submitted FM 3/21/17 DEC accepted FM 6/27/17 DEP to update on extent of delays and mitigation efforts 	 Hazardous materials were found on pipes that need to be demolished. 	Jul 2020	Construction Ongoing
Westchester Creek	IX.E.4. Modification to CSO-29 and CSO-29A, Construction Completion	• DEP submitted FM 3/21/17	 Unknown underground concrete structure found that will interfere with installation of soldier piles 	Dec 2019	Construction ongoing



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⁾
	Flushing Interceptor	TBD	TBD	-	-	-
Flushing	Divert Low-Lying Sewers/Raise BB- R02	Dec 2014	Dec 2016	Dec 2017	164%	80%
Bay	Regulator Modifications	Dec 2015	Jun 2018	Jun 2018	64%	61%
	Flushing Bay Dredging	Sep 2016	Mar 2019	Mar 2019	50%	100%
	Enhanced Aeration East Branch, Upper Newtown Cr	Oct 2015	Jun 2018	Jun 2018	62%	61%
Newtown Creek	Enhanced Aeration Dutch Kills, Lower Newtown Creek	Dec 2017	Dec 2020	Dec 2020	-	-
	Bending Weirs/ Floatables Control	May 2015	Dec 2017	Dec 2017	80%	76%
Westchester	Modifications to CSO-29 & 29A	Dec 2015	Dec 2019	Dec 2019	40%	31%
Creek	Pugsley Creek Parallel Interceptor	Dec 2016	Dec 2020	Dec 2020	12%	0.5%

Location	Item Description	Notice to Proceed	Construction Completion Milestone	Projected Completion	% of Time Elapsed	% of Construction Completed ⁽¹⁾
	26 th Ward HLSS Phase 1	Mar 2016	Dec 2018	Dec 2018	37%	42%
	26 th Ward HLSS Phase 2	Mar 2018	Dec 2020	Dec 2020	-	-
Jamaica	26 th Ward HLSS Phase 3	Mar 2020	Dec 2022	Dec 2022	-	-
Bay	26 th Ward High Level MSP	Jun 2015 ⁽²⁾	Jul 2018 ⁽²⁾	May 2018	74%	67%
	26 th Ward PSTs 1-5	Jan 2016 ⁽²⁾	Jul 2020 ⁽²⁾	Oct 2020	33%	32%
	Rockaway WWTP Conveyance		Dec 2017	Dec 2017	-	-
WI WWTP	MSP Replacement	Mar 2015	Dec 2017	Apr 2018	64%	29%
	Bar Screen	Dec 2014	Jun 2018	Jun 2018	80%	91%

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

⁽²⁾ Modifications to the CSO Order related to the Wards Island and 26th Ward WWTPs are memorialized in a Consent Order effective March 26, 2015.



Alley Creek LTCP Approved on March 7, 2017

Alley Creek CSO Schedule

Alley Creek CSO	DEC Approved Milestones	DEP P80 Schedule/Status
Permanent Disinfection	Facility for Outfall TI-025	
Initiate Final Designation	gn Sept 2018	Jun 2017 - Achieved
2. Design Completic	on Sept 2021	Apr 2021
Notice to Proceed Construction	d to Sept 2022	Jun 2022
4. Construction Com	npletion Sept 2024	Jul 2024



Gowanus Canal LTCP Approved on March 29, 2017

 Continued operation of the Flushing Tunnel in accordance with its operational plan and implementation of a project to mitigate foam generated from the Flushing Tunnel.



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.

Construction Contracts

	Tallman Island Flushing Interceptor	Divert Low-Lying Sewers / Raise Weir BB-R02	Regulator Modifications	Environmental Dredging
Contract ID	TBD	CS-FB-LLD	CS-FB-BWR	CSO-DRDG DRG-FB
Plan Elements	Monitor Flushing Interceptor sag in Ulmer Street and address if periodic monitoring indicates necessity	Divert Low Lying sewers in vicinity of Bowery Bay WWTP. Raise weir at regulator BB-02	Bowery Bay High Level Interceptor regulator modifications at ten regulators	Environmental Dredging of Flushing Bay
Location	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
Cost	TBD	\$5,610,000	\$28,820,000	\$34,720,000
Status	No construction activity	In Construction	In Construction	Certified Dredging Complete on 7/12/17

Design Activity Summary

	This Quarter	Next Quarter
Tallman Island Flushing Interceptor	No design activity	 CCTV/Sonar inspection and survey to be performed in late 2017 to monitor structural integrity and any further settling of pipe.
Divert Low-Lying Sewers / Raise Weir BB-R02	In Construction	 Design services during construction (DSDC) to continue at DDC.
Regulator Modifications	• DSDC	Continue with DSDC.

Construction Activity Summary

	This Quarter	Next Quarter
Tallman Island Flushing Interceptor	No construction activity	No construction activity
Divert Low-Lying Sewers / Raise Weir BB-R02	 Manhole # 1 Complete Manhole # 2-Installed, south side sewer installation 90% complete 	 Complete north and south sewer installation at Manhole #2. Restore roadway at Manhole #2 DEC inspect manholes # 1 and # 2
Regulator Modifications	 Placed concrete for base slabs and new walls for chamber expansion and access vault at BB-R10, including new section of weir wall. Installed new drag struts and tie beams for chamber expansion at BB-R09. Installed dewatering system and begin demolition of west-side barrel of existing double barrel. Completed demolition of the existing dry weather channel and flume. 	 At BB-R10, place concrete for roof. Remove temporary roadway decking and place concrete roadbase. Install access hatch. At BB-R09, complete demolition of west barrel and excavate to subgrade. Install reinforcement and place concrete for west base slab and west wall of chamber expansion. Complete modifications to existing dry weather channel and flume at BB-R06. Plug existing siphon and install dissipation blocks at BB-R05. Install access vault staircase, demo existing sluice gate and place lightweight fill and topping slab in overflow channel at BB-R04.
Environmental Dredging	 Completed dredging and sand cap; started shoreline revetment. 	Continue with shoreline revetment in accordance with permit.

Flushing Bay LTCP Approved on March 7, 2017

Flushing Bay CSO Schedule

Flushing Bay CSO	DEC Approved Milestones	DEP P80 Schedule/Status
1. Initiate Final Design	Jul 2021	Jan 2019
2. Design Completion	Jun 2025	Dec 2025
3. Notice to Proceed to Construction	Jul 2026	Feb 2027 (Phase I)
4. Construction Completion	June 2035	Jul 2035 (Phase II)

Notes: Milestone dates may be subject to revision by DEC based on additional facility planning.

Flushing Creek CSO Schedule

Flushing Creek CSO	DEC Approved Milestones	DEP P80 Schedule
Disinfection Facilities for TI-010 and TI-01	1 and Floatables Conti	rol
1. Initiate Final Design	Sept 2018	Oct 2018
2. Design Completion	Sept 2022	Dec 2022 (Floatables) Aug 2023 (Disinfection)
3. Notice to Proceed to Construction	Sept 2023	Feb 2025 (Disinfection) Dec 2023 (Floatables)
4. Construction Completion	Dec 2025	May 2026 (Floatables) Nov 2028 (Disinfection)

Notes: Milestone dates may be subject to revision by DEC based on additional facility planning.



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.

Construction Contracts

	Parallel 48-inch Siphon / Interceptor	Bending Weirs
Contract ID	CS-JA-BBS	CS-JA-BWR
Plan Elements	Parallel 48-inch Sewer	Bending Weirs
Location	Belt Parkway Queens	Regulator J6 on the East Interceptor and regulators J3 and J14 on the West Interceptor
Construction Cost	\$20,256,909	\$6,853,955
Status	Construction	Completed
Other Issues	The interceptor was activated on February 24, 2017, meeting the consent order milestone date. Due to Hydraulic Grade Line issues associated with a 10" sanitary sewer connected to the interceptor, the sluice gate at regulator JA-3 was lowered to limit flow and CSO capture. The interceptor will run at partial capacity temporarily until downstream sewer work associated with the 10" sanitary sewer is completed. DEP proposed schedule for downstream sewer work to DEC.	DEC accepted DEP's Force Majeure event claim inNovember 2015

Design Activity Summary

	This Quarter	Next Quarter
Parallel 48-inch Siphon/Interceptor	 Continued design services during construction (DSDC) 	Continue DSDC
Bending Weirs	Continued DSDC	Continue DSDC

Construction Activity Summary

	This Quarter	Next Quarter
Parallel 48-inch Siphon/Interceptor	 Contract was substantially completed. The new interceptor was activated (see above) Completed demobilization and began punch-list work. 	 Activate the new sewer line as noted above in "issues" Continue/Complete punch-list work
Bending Weirs	Performed punch-list work	Close out project



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.

Construction Contracts

	Enhanced Aeration 2	Enhanced Aeration 3	Bending Weirs / Floatables Control
Contract ID	CSO-NC-3	CSO-NC-4	CS-NC-REG & FLO
Plan Elements	Enhanced Aeration	Enhanced Aeration	Floatables Controls and Overflow Reduction
Location	East Branch and Upper Newtown Creek	Dutch Kills and Lower Newtown Creek	Dutch Kills, Maspeth Creek, English Kills and East Branch
Construction Cost	\$16,704,250 (G+E+H Contract amounts together)	\$ 31,695,425	\$43,763,292
Status	Construction	Procurement	Construction
Other Issues	Expanded scope of work	On hold pending result of Superfund-related water sampling and LTCP	

Design Activity Summary

	This Quarter	Next Quarter
Enhanced Aeration 2	Continued to provide DSDC	Continue providing DSDC
Enhanced Aeration 3	 No activity – Contract procurement is on hold 	 Procurement of the construction contract is expected to remain on hold
Bending Weirs / Floatables Control	Continued to provide DSDC	Continue to provide DSDC

Construction Activity Summary

	This Quarter	Next Quarter
Enhanced Aeration 2	 Continued construction activities including installation of blowers ,piping connections, masonry work and installation of electrical equipment 	 Complete masonry work for the Blower Building. Continue all other work (electrical & mechanical) inside and outside the two structures. Commence HVAC work Complete blowers and piping installation.
Enhanced Aeration 3	 No activity 	No activity
Bending Weirs / Floatables Control	 Continued baffle chamber construction at NC-083. Completed installation of the Bending Weirs, completed construction of various Counter Weight and Diversion 	 Complete modifications in the Baffle Chamber, Drop Chamber and Counter Weight Chamber at NC-083. Complete electrical and instrumentation installations



The Westchester Creek CSO Facility Planning area includes a portion of the Hunts Point WWTP 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 WWTP	Reduce CSO discharges to Pugsley Creek, which would otherwise <i>increase</i> as a result of the conveyance improvements in Eastchester Road
Location	Eastchester Road, Bronx	Classon Point, Bronx
Construction Cost	\$14.5 Million	\$81.5 Million
Status	In Construction	NTP Awarded December 19, 2016;Contractor submitting construction documents and establishing field office
Other Issues		Field conditions

Design Activity Summary

	This Quarter	Next Quarter
Modifications to CSO-29 and CSO-29A	Provide DSDC services	 Continue to provide DSDC services.
Pugsley Creek Parallel Interceptor Start from CSO-24	Final Design completed	 Continue design support through construction

Construction Activity Summary

	This Quarter	Next Quarter
Modifications to CSO-29 and CSO-29A	 Continued construction activities associated with excavation for overflow chamber extension and combined sewer modifications 	 Continue construction activities for excavation for overflow chamber extension and combined sewer modifications, including utility relocations of Con Edison facilities.
Pugsley Creek Parallel Interceptor Start from CSO-24	 Utility relocation in progress Contractor submitted support of excavation drawings for Chamber #1 	 Utility relocation and water main installation will continue Modifications to Chamber #1 at Cornell Avenue and White Plains Road to begin Contractor will continue to submit shop drawings, vendors and subvendors for approval.



Bronx River LTCP Approved on March 7, 2017

Bronx River CSO Schedule

Bronx River CSO	DEC Approved Milestones	DEP P80 Schedule/Status	
Hydraulic Relief at HP-007 and HP-009,	Bending Weir and Baff	le at HP-011	
1. Initiate Final Design	Sept 2018	Oct 2018	
2. Design Completion	Sept 2022	Nov 2023	
3. Notice to Proceed to Construction	Sept 2023	Aug 2025	
4. Construction Completion	Sept 2026	Aug 2028	

Notes: Milestone dates may be subject to revision by DEC based on additional facility planning.



Hutchinson River LTCP Approved on March 7, 2017

Hutchinson River CSO Schedule

Hutchinson River CSO	DEC Approved Milestones	DEP P80 Schedule/Status
New Outfall and Floatables Control		
1. Initiate Final Design	Sept 2018	Oct 2018
2. Design Completion	Sept 2022	Dec 2024
3. Notice to Proceed to Construction	Sept 2023	Nov 2026
4. Construction Completion	Mar 2026	Jun 2030
New Outfall Disinfection		
1. Initiate Final Design	Sept 2022	Oct 2018
2. Design Completion	Mar 2026	Dec 2024
3. Notice to Proceed to Construction	Mar 2027	Nov 2026
4. Construction Completion	Mar 2030	Jun 2030

Notes:

- 1. Milestone dates may be subject to revision by DEC based on additional facility planning.
- 2. DEP P80 schedule currently has two phases under one contract a more detailed schedule will be provided based on additional facility planning.



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.

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	Improve collection system and WWTP capacity to achieve 2xDDWF	Remove storm water contribution from 443 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	\$57 million for Phase 1a \$71 million for Phases 2a and 2b (estimated). \$63 million for Phases 3a and 3b (estimated)	LLMSP \$7.6 million 26W-21 \$16.3 million 26W-20 \$134.4 million
Status	Project not yet initiated	Phase 1 is in construction Phase 2 design complete Phase 3 in preliminary design	Complete (LLMSPs) In Construction (26W-21) In Construction (26W-20)
Other Issues		Utility Relocation	

Design Activity Summary

	This Quarter	Next Quarter
26 th Ward High Level Sewer Separation	Design is complete for Phase 2.	 Procurement for Phase 2. Design initiation for Phase 3.
26 th Ward Preliminary Treatment Reliability Improvements	Continued DSDC	Continuation of DSDC

Construction Activity Summary

	This Quarter	Next Quarter
26 th Ward High Level Sewer Separation	 Phase I construction progressed. Approx. 19,904 of 20,510 ft of water main installed. 788 of 847 ft of sanitary sewer installed 790 of 1067 ft of combined sewer installed 1450 of 10,146 ft of storm sewer installed 4 of 13 storm sewer chambers installed Relocation of National Grid high pressure gas main 	 Continue installation of water main and sewer Continue relocation of high pressure gas main Install storm sewer chamber
26 th Ward Preliminary Treatment Reliability Improvements	 PST work (26W-20): Completed switchgear upgrade, blower switchgear and transformer testing. Completed process air piping for Blowers 1-4. Began performing individual testing of Blowers 1-4. Completed SOE and hazardous materials abatement in PST-5 excavation. Completed 206 out of 373 Stelcor piles in PST-5 area. Completed rebar installation for Meter Vault MV1 slab, MH D6 slab, and PST-5 sump slab. Completed all the necessary and available work associated with the Interim Grit Building (IGB) by installing the new mechanical, electrical and HVAC system including 	PST work (26W-20): Complete testing of new Blowers 1-4, Blower Master Control Panel, and start 24hr functionality and 30day acceptance testing. Demolish existing Blower 3. Complete installation and start-up testing of new Blower 5. Demolish Interim Blower Building and start driving soldier piles for the Flow Diversion Structure. Relocate PST-4 conduit duct bank. Complete installation of 30T Stelcor piles for PST-5 tank foundation. Complete

This Quarter	Next Quarter
preliminary testing of degritting equipment with sand and water. Begin installation of HVAC duct work in Personnel areas of Pump & Blower (P&B) House. HLMSP work (26W-21): Continued to install electrical conduits between switchgear, pumps and the Secondary Resistor Controls (SRC). Completed installation of Seal Water System piping.	installation of slab for MH D6, Meter Vault MV1 and sumps for PST-5 and Process Sludge Gallery. Begin change orders associated with Milestone acceptance of the IGB and work on punch list items. Continue installation of HVAC duct work and install HVU units in Personnel areas of P&B House. HLMSP work (26W-21): Complete switchgear upgrade work and electrical revisions per Change orders 12 and 13 in preparation for HLMSP #1 start-up Start-up and testing of HLMSP #1.



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).

Construction Contracts

	Main Sewage Pump Reconstruction	Bar Screen Replacement
Contract ID	WI - 288(R)	WI – 280
Plan Elements	Reconstruction of Six (6) Main Sewage	Replace Bar Screens at Bronx and
	Pumps	Manhattan Grit Chambers
Location	Wards Island WWTP	Wards Island WWTP
Status	In Construction	In Close-out
Construction Cost	\$5,292,653	\$13,229,000
Other Issues	Main Sewage Pump (MSP) No. 6 failed. Evaluation of damage and repairs in	None
	progress. During commissioning of MSP	
	No. 2, in March 2017, its motor failed.	
	Evaluation of damage and repairs in	
	progress.	

Design Activity Summary

	This Quarter	Next Quarter
Main Sewage Pump Replacement	Complete	• Complete
Bar Screen Replacement	 Complete 	• Complete

Construction Activity Summary

	This Quarter	Next Quarter
Main Sewage Pump Replacement	• Commissioned 3 rd pump	 Repair damaged motors (#2 and #6) Complete commissioning of 3rd pump Start reconstruction of 4th pump
Bar Screen Replacement	Closeout and punchlist activities	 Continue Closeout and punchlist activities



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.

> 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: Year 3 of three-year monitoring period *Invoiced to Date*: \$519,934.

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: Obtaining construction permit

Invoiced to Date: \$128,414





➤ 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** and site is being prepared for decommissioning.

Status: Year 2 of (two-year?) monitoring period

Invoiced-to-Date: \$**481,215**



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: Year 2 of three-year monitoring period

Invoiced-to-Date: \$451,840



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: Year 2 of 3-year monitoring period

Invoiced to Date: \$453,951

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. Monitoring ongoing.

Status: Year 1 of 2 year monitoring period

Invoiced to Date: \$343,756











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 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 rightof-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 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 **2017**, 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.





Status of Green Infrastructure Practices and Impervious Area Managed

CSO Tributary Drainage Area	Total Green Infrastructure Practices	Total Impervious Area Managed (acres)
Bronx River	102	26
East River / Open Waters	91	35
Flushing Bay	999	113
Flushing Creek	169	19
Gowanus Canal	134	14
Hutchinson River	208	27
Jamaica Bay	1,123	119
Newtown Creek	1,384	119
Paerdegat Basin	4	0
Westchester Creek	33	3
Total*	4,247	473**

^{*} May not sum to total due to rounding.

^{**}The 473 acres represent 0.6% of the total impervious area in combined sewer areas to be managed.



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

Date	Community Member(s)	Type of Outreach	Attendees
April			
5	Newtown Creek Citizens Advisory Group	Update	25
6	Kissena Park Civic Association	Presentation	40
7	Flushing Bay Vision Planning with Riverkeeper	Meeting	5
12	Guardians of Flushing Bay Presentation on Flushing Bay Dredging	Meeting	15
13	Community-Based Organization Private Property Incentive Program Workshop	Workshop	35
20	Edenwald Earth Day Event with NYCHA and PS112	Workshops	30
21	Plank Road Site Visit with Newtown Creek Alliance	Meeting	10

25	SWIM Steering Committee	Meeting	12
26	Newtown Creek LTCP Alternatives Meeting	Presentation	44
May			
10	Hunts Point Vision Plan Members	Presentation	20
16	Bronx & Harlem Urban Waters Federal Partnership	Presentation	15
23	PS 120Q Students, Faculty, Staff	Groundbreaking	150
June			
8	West Cunningham Park and Utopia Estates Civic Associations	Presentation	40
13	Wyckoff Gardens Resident Association	Presentation	30
14	Green Infrastructure Grant Program Workshop	Presentation	42
28	Fresh Meadows Resident Association	Presentation	50

Community Outreach Email Correspondence this Quarter

	April	May	June	Sub-Totals
RSVP to LTCP Meeting	42	0	0	42
Request to be Added	2	2	283*	287
Request to be Deleted	3	5	4	12
Press Inquiries	1	1	1	3
Public Comment	0	0	2	2
General Information	3	0	0	0
Sub-Totals	49	8	290	347

^{*}June increase is due to new updates to New York City community board and elected official contact information



Discrize Association	Parity I	<u>DEP</u> R	DEP Responsible Personnel				
Planning Area	Project	Bureau	Chief	APM			
	CSO-DRDG: Gowanus Dredging		Tysvaer	Chao			
Inner Harbor	CSO-GC: Flushing Tunnel	BEDC	Clarke	Joseph			
	CSO-GC: Gowanus PS	BEDC	Clarke	Joseph			
	CSO-DRDG: Dredging	BEDC	Tysvaer	Novotny			
	PW-088 Assn. 2B: Flushing Interceptor	BWT	TBD	TBD			
Flushing	CS-FB-LLD: Low-Lying Sewers	BWSO	DeLillo	Gordon			
Bay	CS-FB-LLD R2 Weir	BWT	TBD	TBD			
	CS-FB-BWR: Regulators	BEDC	Tysvaer	Gordon			
	TI-WW-1: Whitestone Interceptor		Solimando	Sadat			
Jamaica	CS-JA-BWR: Bending Weirs	BEDC	Tysvaer	Novotny			
Tributaries	CS-JA-BBS: 48-Inch Sewer	BEDC	Tysvaer	Meshkati			
	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	Meshkati			
Westchester	CS-ER-WCM: Modifications to CSO-29 / 29A	BEDC	Tysvaer	Betemit			
Creek	CS-ER-WCP: Pugsley Creek Parallel Interceptor	BWSO	DeLillo	Garin			
	CSO-HC: Hendrix Creek Dredging	BEDC	Tysvaer	N. Shah			
Jamaica	CS-FB-SEW: 26th Ward / Fresh Creek HLSS	BWSO	DeLillo	Gordon			
	CO 26W-128: Low Level Main Sewage Pumps	BEDC	Solimando	Kharivala			
Bay	26W-20: 26th Ward Wet Weather Stabilization	BEDC	Solimando	Heim			
	26W-21: 26th Ward High Level Main Sewage Pumps	BEDC	Solimando	Heim			
Wards Island	Reconstruction of Main Sewage Pumps (MSP)	BWT	Lochan	A. Parada			
vvarus isianu	Bar Screen Replacement	BEDC	Moriarty	N. Shah			



Action Items from June 28, 2017 CSO Quarterly Progress Meeting

	Item	Responsible Party	Status
1.	DEP to provide updated LTCP responsiveness summaries for DEC review	DEP	Underway
2.	DEP to provide schedule of public participation activities for the LTCPs through the end of 2017.	DEP	Completed
3.	DEC to request a meeting with EPA on Newtown Creek LTCP with DEP	DEC	Completed (7/13/2017)
4.	DEC to public notice the Jamaica Bay LTCP milestone extension	DEC	Completed
5.	DEC to finalize the Bergen Basin sewer lateral mini-mod	DEC	Under DEC Review
6.	DEC to make final decision on GI Metrics Report and GI Contingency Plan	DEC	Completed
7.	DEP to submit mod request for Rockaway I/I study in lieu of 2xDDWF	DEP	Underway
8.	DEP to provide updates or responses to:	DEP	
	a. Coney Island Creek LTCP comment letter	DEP	Underway
	b. Westchester Creek LTCP comment letter	DEP	Completed (7/11/2017)
	c. Wards Island MSP failure force majeure response letter	DEP	Underway
9.	DEP to share results from Spring Creek pilot disinfection study	DEP	Underway
10.	DEC to consider attending/participating in 3 rd public meetings for Bronx River and Flushing Bay LTCPs	DEC	Underway
11.	DEP to provide flow monitoring and influent sampling data from LTCP sampling effort (ongoing)	DEP	Underway



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	Pending	
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	Pending	
8	Flushing Bay	December 2016	Approved 3/7/17	
9	Newtown Creek	June 2017	Submitted 6/30/17 Pending	
10	Jamaica Tributaries & Bay ¹ June 2018		Underway	
11	Citywide ²	December 2018	Underway	

¹⁾ DEC concurred with DEP's Modification Request to extend Jamaica Bay LTCP submission milestone to June 30, 2018 by letter dated June 27, 2017. Modification to be publically noticed.

²⁾ DEC approved DEP's Modification Request to extend Citywide LTCP submission milestone to December 31, 2018 by letter dated June 27, 2017.

New York City CSO Watersheds





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 Creek¹	Westchester Creek ²	Hutchinson River³	Flushing Creek ⁴	Bronx River⁵	Gowanus Canal ⁶	Coney Island ⁷	Flushing Bay ⁸	Newtown Creek ⁹	Jamaica Bay	Citywide
LTCP Due Date	June 2013	Jun 2014	Sept 2014	Dec 2014	Jun 2015	Jun 2015	Jun 2016	Dec 2016	Jun 2017	Jun 2018	Dec 2018
Waterbody Startup											
Sampling											
Modeling											
Alternatives Development											
LTCP Development											
Public Participation ¹⁰	O	0			0		0	0	0	0	
Approval Date	Mar 2017	Pending	Mar 2017	Mar 2017	Mar 2017	Mar 2017	Pending	Mar 2017	Pending		

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 January 14, 2015. Supplemental Documentation submitted April 14, 2015.

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.

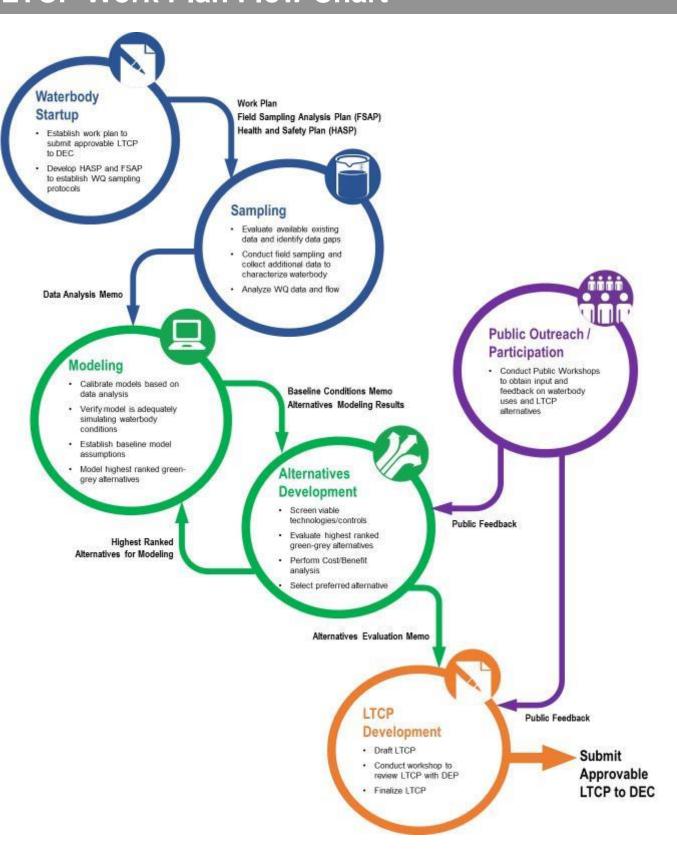
⁷Final Coney Island Creek LTCP submitted to DEC in June 30, 2016. DEC Comments Letter received August 17, 2016. Response Letter submitted September 16, 2016.

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

⁹Final Newtown Creek LTCP submitted to DEC in June 30, 2017.

¹⁰Pending 3rd public meeting presenting LTCP Recommendations. DEC determined Gowanus Canal public participation requirements have been met.

LTCP Work Plan Flow Chart





WB No.	CSO Watershed	LTCP Milestone	Progress Update
2	Westchester Creek	June 2014	 DEP submitted LTCP on 6/30/14. DEC comments received on 9/22/14. DEP responded on 11/24/14. Additional DEC comments received on 1/14/15. DEP submitted Supplemental Documentation & Response to Comments on 4/14/15. Additional DEC comments received on 6/6/2017.
7	Coney Island Creek	June 2016	 DEP submitted LTCP on 6/30/16. Comments from DEC received on 8/17/16. DEP responded to comments on 9/16/16. DEP submitted the Supplemental Fecal Testing Findings Memorandum on 3/17/17. Additional DEC comments received on 4/6/2017.
10	Newtown Creek	June 2017	 DEP continued LTCP IW and WQ modeling for retained alterantives; continued WQ modeling Peer Review. DEP continued to develop and evaluate retained alternatives. DEP prepared cost estimates and created cost-performance plots DEP finalized LTCP, completed quality control reviews and submitted Newtown Creek LTCP to DEC on June 30, 2017.
9	Jamaica Tributaries and Bay	June 2018	 DEP continued to establish the baseline conditions to be used for the development of the LTCP. DEP continued LTCP IW and WQ modeling efforts. DEP continued to develop potential alternatives. DEP submitted Modification Request for LTCP Milestone Extension to June 30, 2018. DEP provided supplement information to support Modification Request. DEC concurred with 12-month extension request by letter dated June 27, 2017. Modification to be publically noticed.

WB	CSO	LTCP	Progress Update
No.	Watershed	Milestone	
11	Citywide	December 2018	 Includes Harlem River, Open Waters and East River LTCPs. After public notice and comment (none received), DEC approved Milesone Extension for Citywide LTCP, to December 2018. As discussed with the DECDEP may require additional time beyond December 2018 to incorporate all of the flow monitoring and ambient sampling, but is seeking to streamline its overall program to avoid any further delays DEP continued data analysis for Phase I (Harlem and Hudson Rivers) Sampling Programs. DEP continued Phase II (East River and Long Island Sound) Sampling Program. DEP initiated Phase III (New York Harbor) Sampling Program.



DEC approved DEP's Milestone Modification Request to Swap Consent Order Milestone for Jamaica Bay and Tributaries LTCP with Flushing Bay LTCP on February 23, 2015. The Consent Order Milestone for Jamaica Bay LTCP is June 30, 2017. Subject to public notice and comment, DEC has concurred with DEP's requestto extend the LTCP submission to June 30, 2018.

Last 30-Day Progress Highlights

Activity	June 2017 Progress Highlights
Waterbody Management	 Submitted Modification Request to extend LTCP submission Milestone to June 30, 2018 Developed a delivery schedule for June 30, 2018 LTCP Submittal Provided supplemental information to support Modification Request
Sampling	No new activity
Modeling	 Continued meetings and coordination with BEPA/BWSO on SEQ Baseline Conditions, synergies, ongoing updates of MS4 catchments and other related activities Updated Baseline Conditions Memo Completed Existing Conditions WQ runs and preliminary gap analysis Completed IW model runs for baseline conditions Updated IW model to incorporate more detailed piping network for SEQ
Alternatives Development	 Continued development of potential CSO control alternatives Continued developing Preliminary Shortlist of Retained Alternatives for each tributary Continued brainstorming potential synergies with BWSO storm sewer build-out program
LTCP Development	No new activity
Public Participation	No new activity

90-Day Look Ahead

July 2017 to September 2017

Activity	Projected Completion	Status / 90-Day Look Ahead
Waterbody Management	Jun 2018	 Provide monthly progress reports to DEC for all tasks, consistent with commitments in DEP's June 21, 2017 letter. Continue to update delivery schedule for Jamaica Bay LTCP due June 30, 2018,
Sampling	Feb 2017	No new activity
Modeling	May 2018	 Fine tune WQ model runs for baseline conditions and update gap analysis Continue to incorporate more detailed piping network for SEQ in IW model Continue IW and WQ modeling to support alternatives development Continued meetings and coordination with BEPA/BWSO on SEQ synergies
Alternatives Development	May 2018	 Continue development of alternatives and prepare for internal alternatives review meetings Perform cost estimates for range of CSO control levels
LTCP Development	Jun 2018	Developing Jamaica Bay LTCP report sections consistent with the recently submitted Newtown Creek LTCP.
Public Participation	June 2017	 Provide monthly updates on project website, consistent with commitments in DEP's June 21, 2017 letter. Prepare for Public Status Update Meeting tentatively scheduled for October 25, 2017

Schedule Milestone Status

	Sampling Program Completed	Data Sent to DEC	Baseline Conditions Established	WQ Performance Gap	Potential Alternatives Presented	Retained Alternatives Selected	Recommend ed Plan Selected
Target Date	Jan 2016	Aug 2016	Jan 2018	Mar 2018	Mar 2018	Apr 2018	May 2018
Status	Ø	Ø		•			