October 26, 2021

Director, Bureau of Water Compliance Attention: Edward Hampston New York State Department of Environmental Conservation 625 Broadway, 4th Floor Albany, NY 12233-35062

Agreement DEC Index No: CO 1-20170626-244

South Shore Water Reclamation Facility 2021 Q3 Quarterly Report

Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of July 1, 2021 through September 30, 2021.

Very truly yours,

Vincent Falkowski, P.E. Deputy Commissioner for Environmental Programs

c: NCDPW

Kenneth Arnold Edward Visone Jane Houdek Karen Fay Elisa Picca Chris Vella Hazen and Sawyer Mark Hanson Paul Saurer Eric Mills Tom Zakrzewski ARCADIS Peter Glus Greg Bazydola Maryanne Dioquino Khanhtran Do DEC Anthony Leung Katie French Paul Harding Brian Lee Josh Lin Ryan Waldman Andrew Fera Andrew Fleck

DEC Agreement Q3 2021 Report



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Background

On October 29th, 2012 Hurricane Sandy (a.k.a. Superstorm Sandy) pushed into the NY-NJ Metro area and caused widespread and unprecedented damage to coastal communities, low-lying residential neighborhoods, and public infrastructure. The Bay Park Sewage Treatment Plant (the "Bay Park STP"), owned by the Nassau County Department of Public Works (DPW), which serves close to half a million Nassau County residents, was damaged by flooding, power loss, and high winds. The Bay Park STP was partially submerged and the major electrical systems, pumping facilities, and processes were inundated with saltwater from the nearby bay area. To correct the damage to the plant, improve the effluent quality and make the plant less vulnerable to future storms the County committed to construct improvements.

The construction of the improvements is catalogued in the Agreement with the New York State Department of Environmental Conservation CO 1-20170626-244 ("Agreement") in January 2018. In accordance with Section VII, Paragraphs A-C of the Modified Agreement the DPW hereby submits to the New York State Department of Environmental Conservation (DEC) the Quarterly Report for the period of July 1, 2021 through September 30, 2021.

Quarterly reports are posted to the County website and can be found via this link: <u>https://www.nassaucountyny.gov/1882/Wastewater-Management-Program</u>

Executive Summary

The Bay Park Sewage Treatment Facility Agreement ("Agreement") Index No. CO 1-20170626-244, was entered into by the County of Nassau ("County") and the New York State Department of Environmental Conservation ("DEC") and became effective on January 11, 2018. The Agreement was modified by mutual consent in this reporting quarter, having been approved by the Nassau County Legislature and signed by the County. The modification was fully executed by the State on January 12, 2021. This report has been prepared with respect to the Modified Agreement.

Pursuant to Section VII, Paragraph A of the modified Agreement, "The County shall submit quarterly construction reports ("Quarterly Reports") to the DEC. The Quarterly Reports shall describe the actions which have been taken toward achieving compliance with this Modified Agreement during the previous three-month period". The Modified Agreement requires that this report provide:

- 1. A list of the County's construction contracts necessary to fulfill the requirements of compliance milestones of this Agreement as such milestones are set forth in Appendices A, B, C, D, E and F. This list shall identify, by percentage, the amount of the contract that has been completed;
- 2. A detailed description of: (a) the work performed pursuant to this Agreement during the reporting period, including the status of all milestones; (b) all anticipated activities for the next three-month period; and (c) the status and cost report for all EBPs required by this Modified Agreement;
- 3. Information regarding unresolved delays encountered or anticipated that may affect the future schedule for implementation of the County s obligations under this Modified Agreement, and efforts made to mitigate and/or cure those delays or anticipated delays;
- 4. A description of community relations activities during the reporting period and the activities anticipated for the next three months;
- 5. Any changes in key personnel; and
- 6. Any other issues with the potential to materially affect the projects set forth in this Modified Agreement.

Additional information is included to provide a comprehensive representation of the County's efforts towards achieving compliance with the Agreement. This Quarterly Report updates the status and progress of DPW's compliance with the milestones set forth in the Agreement during the period from July 1, 2021 through September 30, 2021 ("Reporting Quarter").

COVID-19 work restrictions the County had implemented continued to limit the number of staff at any County facility until said restrictions were lifted July 5, 2021.

Modification Request and Force Majeure Status

The following table lists modification requests made by the County and DEC responses to date. The previous outstanding milestone modification requests have all been addressed by the Agreement modification.

Milestone	Agreement Date	Mod request letter date	Revised date requested	DEC Response Date	Modified Milestone Date ¹
General Covid-19 FM	N/A	3/19/2020 ²	N/A	6/24/2021	N/A

Table 1 – Modification Requests and	Force Majeure Notifications
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^{1.} Bold denotes current date, italic superseded

^{2.} Force Majeure

Design Milestone Status

The following table lists the design milestones and statuses for Appendix A of the Agreement.

Milestone	Agreement Date	Actual/Forecast
Effluent Screening and Disinfection	4/8/2018	1/5/2018 *
East Avenue Ejector Station	2/8/2018	3/2/2018 *

Table 2 – Design (Completion Milestones
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*The table in Section X.0 of this report indicates certification of completed activities.

Project Notes:

All agreement design milestones have been completed and certifications accepted.

IV.0 **Construction Milestone Status**

The following tables list the construction milestones and statuses for Appendices A and C of the Agreement. The milestone dates which are established in the Bay Park Agreement may be modified in the future if the County formally proposes an extension of the milestone, based upon its facility planning, and DEC formally accepts a projected delay.

Milestone	Agreement Date	Actual/ Forecast			
Raw Sewage Pumping Facility	2/26/2021	5/3/2021 A			
Effluent Screening and Disinfection	10/29/2020	11/4/2020 A			
Secondary Flood Protection	12/18/2019	12/18/2019 A			
East Avenue Ejector Station	10/29/2020	11/2/2020 A			
Sidestream Deammonification	12/31/2019	12/31/2019 A			

Table 3 – Construction NTP Milestones

Table 4 – Construction Completion Milestones						
MilestoneAgreementActual/DateForecast		% Complete				
1 Barnes Avenue – Baldwin	12/31/2019	10/4/2019 A	100%			
2 Raw Sewage Pumping Facility	2/15/2024	10/18/2023	10%			
3 Sludge Dewatering Facilities	12/15/2018	5/21/2018 A	100%			
4 Effluent Screening and Disinfection	8/22/2023	2/8/2023	28%			
5 Effluent Tide Pumping Facilities	1/15/2021	5/5/2020 A	100%			
6 Electrical Distribution Phase E1-E3	10/23/2020	9/1/2020 A	100%			
7 Secondary Flood Protection	6/17/2022	11/11/2021	90%			
8 Stormwater Pump Stations	3/31/2019	3/28/2019 A	100%			
9 Upgrade To 3 Generator Operation	5/19/2019	8/30/2019 A	100%			
10 Cedar Dr, Roosevelt et al PS	5/8/2018	1/12/2018 A	100%			
11 Wantagh, Newbridge et al PS	4/25/2018	2/12/2018 A	100%			
12 Ocean Ave, Mill Rd et al PS	12/5/2018	8/17/2018 A	100%			
13 Inwood, Doughty et al PS	7/4/2019	5/13/2019 A	100%			
14 Lawrence & Sage Lake PS	8/30/2018	8/13/2018 A	100%			
15 East Avenue Ejector Station	10/31/2022	2/10/2022	60%			
16 Level 1 BNR	5/5/2020	4/30/2020 A	100%			
17 Sidestream Deammonification	10/3/2022	4/21/2022	88%			

* The table in Section X.0 of this report indicates certification of completed activities.

Project Notes:

<u>1. Barnes Avenue – Baldwin</u>

This project has been completed and milestone certification accepted.

2. Raw Sewage Pumping Facility

Progress This Quarter:

- Started demolition of existing roof where tie-beams will be installed.
- Installed threaded rods, dowels and rebar cages inside existing wall cavities for the new columns.
- Installed formwork on the inside and outside of the new concrete columns.
- Installed bracing for formwork and concrete placed in columns.
- Excavated trench for new corridor footing, installed stone base and compacted.
- Installed formwork and rebar for corridor footing.
- Installed bracing for formwork and concrete placed for footing.
- Temporarily re-routed the rheostat control wiring for RSP#5, 4, 3, 2. Rheostat Control Wiring MOPO.
- Extended the temporary stair tower height to bridge over the tie beam.
- Continued demolition of existing roofing for tie-beams and gusset plates.
- Installed eastern wall gusset plate in existing roof +23.00.
- Installed outside face of formwork for roof tie-beams.
- Started cleaning up slag on concrete columns, parging and grinding smooth.
- Started installation of rebar for tie-beams on existing roof.
- Continued submission of RFI's, submittals, and shop drawings subcontractors/vendors for approval.

Expected Progress Next Quarter:

- Continue cleaning slag on columns, parging and grinding smooth.
- Install gusset plates in penetrations from existing roof to electrical room.
- Finish installation of tie-beam rebar cages on existing roof.
- Finish inside face of tie-beam formwork on existing roof.
- Install concrete for tie-beams.
- Finish removal of existing roofing membrane.
- Install temporary roofing material on existing electrical building roof for water resiliency.
- Install rebar and formwork for new corridor support column.
- Install concrete for new corridor support column

<u>3. Sludge Dewatering Facilities</u>

This project has been completed and milestone certification accepted.

4. Effluent Screening and Disinfection

Progress This Quarter:

- Completed the demolition of the concrete pad for the heat recovery unit on the mezzanine level.
- Removed abandoned conduits in the HVAC Room.
- Patched the walls and ceiling in the HVAC Room and on the mezzanine level.
- Continued the installation of HVAC ductwork and supports in the Screening Room.
- Continued preparation and submission of administrative and technical submittals

Expected Progress Next Quarter

- Continue the installation of HVAC ductwork and supports in the Screening Room.
- Patch Screening Channel #3 in accordance with the recommendation of the PE inspection.
- Install the Hot Water Unit Heaters in the Screening Room.
- Block up unused HVAC wall opening to match existing conditions.
- Continue preparation and submission of administrative and technical submittals.

5. Effluent Tide Pumping Facilities

This project has been completed and milestone certification accepted.

6. Electrical Distribution System Phases E1-E3

All phases have been completed and milestone certification has been submitted and accepted.

7. Secondary Flood Protection

Progress This Quarter:

- Continued installing flood barriers and flood doors.
- Started testing flood doors and barriers.
- Installed flood gates at Fire Protection, Dechlorination and Sludge Control buildings.
- Installed the fire rated door in the Operations Building basement.
- Continued reinstalling electrical equipment at multiple locations.
- Installed exterior lighting at the Fire Protection building.
- Painted water-resistant coating on exterior masonry of buildings.
- Continued to submit Shop Drawings, RFI's and Subcontractor/Vendors for approval.

Expected Progress Next Quarter:

- Flood testing of the flood doors barriers and gates.
- Finish painting of exterior masonry of buildings.
- Continue miscellaneous electrical reinstallations.
- Install sump pump gratings.
- Commence close-out activities.

8. Stormwater Pump Stations

Construction is complete, milestone has been met, certification of completion has been submitted and accepted.

9. Upgrade to 3 Simultaneous Generator Operation

Construction is complete, milestone certification has been submitted and accepted.

10. Cedar Dr., Roosevelt Ave, Whitewood, Biltmore and Alhambra Pump Stations

Construction is complete, milestone has been met, certification of completion has been submitted and accepted.

11. Wantagh, Newbridge, Merrick & Ray St Pump Stations

Construction is complete, milestone has been met, certification of completion has been submitted.

12. Ocean Ave, Mill Rd, Woodmere Blvd & Longacre Ave Pump Stations

Construction is complete, milestone has been met, certification of completion has been submitted and accepted.

13. Inwood, Doughty Blvd, Bayview Ave & Roslyn Rd Pump Stations

Construction is complete, milestone has been met, certification of completion has been submitted.

14. Lawrence and Sage Lake Pump Stations

Construction is complete, milestone has been met, certification of completion has been submitted and accepted.

<u>15. East Avenue Ejector Station</u>

Progress This Quarter:

- Continued installation of spiral stairs in the wet well lower mezzanine.
- Continued installation of stairs in the wet well upper mezzanine.
- Continued installation of electrical platform.
- Completed installation of monorail beam in the wet well entry level.
- Started installation of electrical panels at the exterior platform
- Started mobilizing mechanical equipment into the building.
- Started core drills for pipe penetrations.

Expected Progress Next Quarter:

- Install the main sewage pumps.
- Install fuel tanks.
- Install concrete slab ceiling in the wet well entry level.

16. Level 1 BNR

Construction is complete and certification of completion has been submitted and accepted.

<u>17. Sidestream Deammonification</u>

Progress This Quarter:

• Continued submission of general conditions items, O&Ms and technical submittals.

- Continued site lighting work.
- Continued electric conduit installation on façade of DA & EQ Tanks.
- Continued installation of electric and control panel installations on DA and EQ Tanks, and Sludge Pump building.
- Continued electric conduit and wire installations within the Sludge Dewatering Building and ductbank.
- Continued main feeder installation from Substation to Sludge Dewatering Building.
- Continued HVAC installations within Sludge Dewatering Building.
- Continued Site Restoration, Roadway Curb Installations, asphalt installation, and final grade and seeding.
- Continued DA & EQ tank coating system installations.
- Continued mechanical equipment installation within the DA & EQ Tanks.
- Continued FRP Cover installation on the DA Tank and started on EQ Tank

Expected Progress Next Quarter:

- Continue submission of general conditions items, O&Ms and technical submittals.
- Continue mechanical, plumbing, and electric work within the sludge dewatering building.
- Continue wire installation on DA & EQ Tanks, inside Dewatering building, and ductbanks.
- Continue Sitework and restoration.
- Continue HVAC installations within dewatering building.
- Continue installation of EQ & DA Tank Coating System and punchlist work.
- Continue equipment installation within the DA & EQ Tanks.
- Continue FRP Cover Support Installation within the DA & EQ Tanks.
- Continue wire installation between the dewatering building and DA/EQ tanks.
- Continue site lighting installations.
- Continue painting piping through-out.
- Continue mechanical piping installations and final tie-ins.
- Continue I&C equipment and Control Panel installations.
- Start check-up/start-up of WWW and HVAC equipment.

Inter Municipal Agreement

Paragraph VII.G of an administrative Consent Order (#C01- 20151020-142) between DEC and the City of Long Beach (City) requires the City to enter into an Inter-municipal Agreement (IMA) with the County. The County was to enter into a fully executed IMA with the City within 180 days of the effective date of this Agreement. The IMA is to address the diversion of wastewater from the WWTP currently owned and operated by the City to the Bay Park WWTP.

The IMA was executed by both parties on July 26, 2019 as noted in the modified Agreement paragraph VII.F.

Nitrogen Schedule of Compliance

The milestones for the Nitrogen Upgrades as listed in the Modified Agreement are listed in the following table.

Description of Work	Agreement Date	Projected/Actual*
Submit an approvable BNR Operation and Mainte-	1/8/2020	1/8/2020
Begin operation of the 6-month start-up period	6/1/2020	6/1/2020
Begin the 12-month performance period	1/1/2021	1/1/2021
End 12-month performance period	12/31/2021	12/31/2021
Submit performance data	4/1/2022	4/1/2022
Submit an approvable updated BNR O&M and Side- stream O&M Plan	6/1/2022	6/1/2022
Begin operation of the 6-month start-up period for up- dated BNR and Sidestream O&M plan.	11/1/2022	11/1/2022
Begin the 12-month performance period for updated BNR and Sidestream O&M plan.	5/1/2023	5/1/2023
End 12-month performance period for updated BNR and Sidestream O&M plan.	4/31/2024	4/31/2024
Submit performance data and approvable Final BNR and Sidestream O&M Plan.	8/1/2024	8/1/2024

Table 5 – Bay Park WPCP Nitrogen Milestones

* The table in Section X.0 of this report indicates certification of completed activities.

The milestones in Table 5 were revised in this reporting quarter according to the modified Agreement.

The BNR O&M Plan was submitted to DEC on the January 8, 2020 milestone. Comments were received from DEC and upon resolution the plan was accepted April 13, 2020. The startup period was initiated on June 1, 2020 as per the schedule and has continued through the quarter. The startup period concluded in December 2020 and the performance period began January 1, 2021.

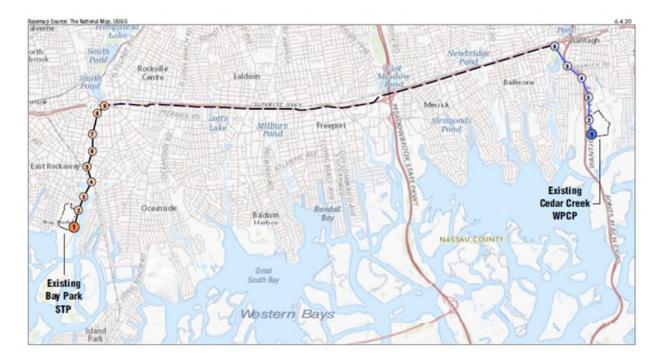
Monthly performance reports have been submitted to DEC showing significant nitrogen removal, continuing despite the cold weather necessitating the transition to winter mode operations with increased aeration.

A six-month report was submitted on August 3, 2021 with a summary of performance to date and with a winter operating plan.

Conveyance Project

Executive Summary

The Bay Park Conveyance Project (Project) is being delivered by the Department of Environmental Conservation (DEC) Project Team in partnership with the Nassau County Department of Public Works (DPW) via the design-build project delivery method. The Project would divert treated Bay Park STP effluent from the existing outfall in Reynolds Channel to the Cedar Creek WPCP ocean outfall. The diversion of treated water from Bay Park STP to Cedar Creek WPCP would remove between 75 to 90 percent of the nitrogen currently discharged into the Western Bays.



The Project includes: (1) constructing a new dedicated pump station at the Bay Park STP, (2) rehabilitating an existing aqueduct under Sunrise Highway, (3) constructing a new 70 inch diameter force main between the Bay Park STP and the existing aqueduct, (4) constructing a new 70 inch diameter force main between the Cedar Creek WPCP and the existing aqueduct, and (5) constructing a standpipe receiving tank connection at the existing Cedar Creek WPCP pump station.

The new pump station at the Bay Park STP will have a 75 MGD capacity and will be fully mitigated from the 500-year storm surge.

The existing aqueduct is a steel pipe that is to be slip lined with a polymer pipe with the interstitial space filled with grout to maximize protection against leakage. Construction of the new force mains will use microtunneling technology. Microtunneling is a method of constructing underground tunnels to install pipes, such as sewer mains, using a remotely operated microtunnel boring machine (MTBM). This method avoids the need to excavate long sections of open trenches at the ground surface to lay pipes. The project includes the 14 construction shafts, approximately 30 feet in diameter, at the beginning, end, and at several locations along the force main alignments, establishing staging areas of approximately half an acre around each construction shaft. The tunnel for each new force main would then be drilled between the shafts at depths below current ground surface of approximately 20 to 60 feet.

A steel standpipe is to be constructed at the Cedar Creek WPCP which will serve to protect the force main from transient pressures that could result from power outages. The Cedar Creek pump station is also to be upgraded with new pumps, motors and drives.

The Modified Agreement reflects the project name change from the Effluent Diversion Project to the Conveyance Project. The initial modified milestones for the Conveyance Project are listed in the following table:

Description of Work	Agreement Date	Projected / Actual	Milestone Submitted	Milestone Accepted
DEC Conveyance Team Selects Best- Value Proposal	10/26/2020	10/22/2020	2/17/2021	2/17/2021
County/DEC Project Team to submit approvable major and minor mile- stones in a Baseline Schedule for De- sign-Build Project Completion, includ- ing Mechanical Completion, Substan- tial Completion, and Final Acceptance	3/26/2021	4/6/2021	4/6/2021	4/13/2021
Repair of the Cedar Creek Outfall Dif-	10/31/2021	10/31/2021		
Notice to Proceed to Construction	2/26/2021	4/4/2021	3/9/2021	3/9/2021
Construction Start Early Works	6/25/2021	6/25/2021		
Commence Diversion of Wastewater from Bay Park to Cedar Creek	10/25/2024	10/25/2024		

 Table 6 – Initial Conveyance Project Milestones

In this reporting quarter, three milestones were achieved and accepted, one of which was a new set of milestones that supersede those in Table 6. The revised list of milestones is shown in Table 7 on the following page.

Table / - Conveyance Project Milestones						
Description of Work	No.	Agreement Date	Projected / Actual	Milestone Submitted	Milestone Accepted	
Notice to Proceed	1	3/4/2021	3/4/2021	3/9/2021	3/9/2021	
BPM Construction Start	2.1	10/1/2021	5/1/2021	5/12/2021	5/12/2021	
BPM Design Start	2.2	4/1/2021	4/15/2021	4/16/2021	4/19/2021	
BPM Shafts Complete	2.3	5/1/2022	5/1/2022			
BPM Design Complete	2.4	5/1/2022	5/1/2022			
BPM Construction End	2.5	12/30/2023	12/30/2023			
CCM Construction Start	3.1	12/1/2022	12/1/2022			
CCM Design Start	3.2	7/1/2021	6/29/2021	6/29/2021	7/2/2021	
CCM Shafts Complete	3.3	6/1/2022	6/1/2022			
CCM Design Complete	3.4	9/1/2022	9/1/2022			
CCM Construction End	3.5	12/30/2023	12/30/2023			
BPEPS Construction Start	4.1	5/1/2021	5/1/2021	5/12/2021	5/12/2021	
BPEPS Design Start	4.2	4/1/2021	4/15/2021	4/16/2021	4/19/2021	
BPEPS Design Completion	4.3	10/1/2022	10/1/2022			
BPEPS Construction End	4.4	12/30/2023	12/30/2023			
SHA Rehabilitation Con- struction Start	5.1	10/1/2021	10/1/2021	9/28/2021	9/29/2021	
SHA Rehabilitation Design Start	5.2	4/1/2021	4/15/2021	4/16/2021	4/19/2021	
SHA Rehabilitation Design Complete	5.3	12/30/2022	12/30/2022			
SHA Rehabilitation Con- struction End	5.4	12/30/2023	12/30/2023			
CCEPS/RS Construction Start	6.1	8/1/2022	8/1/2022			
CCEPS/RS Design Start	6.2	8/1/2021	6/29/2021	6/29/2021	7/2/2021	
Cedar Creek Outfall Repair	6.3	12/1/2021	12/1/2021			
CCEPS/RS Design Comple- tion	6.4	10/1/2022	10/1/2022			
CCEPS/RS Construction End	6.5	12/30/2023	12/30/2023			
Mechanical Completion	7	12/30/2024	12/30/2024			
Substantial Completion	8	7/30/2024	7/30/2024			
Final Acceptance	9	11/30/2024	11/30/2024			

 Table 7 – Conveyance Project Milestones

BPM: Bay Park Microtunnel CCM: Cedar Creek Microtunnel BPEPS: Bay Park Effluent Pump Station SHA: Sunrise Highway Aqueduct CCEPS/RS: Cedar Creek Effluent Pump Station/Receiving Station

Progress This Quarter:

Bay Park Effluent Diversion Pump Station:

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design, including: Bay Park Diversion Structure Support of Excavation; Bay Park Wet Well Support of Excavation; Bay Park Wet Well Liner and Internal Structures; Bay Park Near Surface Structures; Bay Park Pump Early Work Design; and Bay Park Hydraulic Modeling. Received two (2) RFCD documents.
- Reviewed and processed numerous construction submittals/work plans for various aspects of the Bay Park Pump Station, relative to Bay Park Wet Well, Bay Park Diversion Structure secant piles and jet grout installation layouts, Support of Excavation plans, and concrete mix submittals for temporary and permanent works.
- Installation of Bay Park Shaft BP-1 secant piles and jet grout invert; initiation of Bay Park Shaft BP-1 jet grout test program; installation of Bay Park Wet Well secant piles; and installation of Bay Park Diversion Structure guide walls and partial installation of secant piles.

Bay Park Microtunnel:

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design including: Bay Park Microtunnel Drives 2-1, 2-3, 3-4, 5-4, 5-7, 8-7, and 8-9; Bay Park Shafts 2, 3, 4, 5, 7, 8, and 9; and Bay Park Shafts 4, 7, 8, and 9 Support of Excavation. Received one (1) RFCD document.
- Reviewed and processed numerous work plans and construction submittals, including but not limited to, SWPPPs, Jet Grout Test Program, mix designs for permanent piles, Support of Excavation ring beam, CSM trial test program, and flowcrete shop drawings.
- Installation of Bay Park Shaft BP-2 jet grout invert, permeation grout invert, and Shaft BP-2 soil mix; mobilization at Bay Park Shaft BP-3 and instrumentation and fence site set-up; initiation of Bay Park Shaft BP-5 site set-up and site demolition (i.e. gazebo and light poles); and installation of Bay Park Shaft BP-9 site fencing.

Sunrise Highway Sliplining:

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design, including: Sunrise Highway Slipline and Work Pits A, I, K, L, M, N, O, P, Q, R, S, T, U, V, and W; and Sunrise Highway Slipline and Work Pits A, B, C, D, E, F, FF, G, GG, H, I, K, L, M, N, O, P, Q, R, S, T, and W Utility Protection and Relocation.
- Reviewed/processed a SWPPP submittal for sliplining work at Work Pits O, P, and Q and FRP Lined RCP Pipe for microtunneling.
- Survey access openings at Sunrise Highway Pits Q, S, T, U, V, and W; removal of valves and chamber wall demolition; installation of Sunrise Highway Work Pit P sheet piles; and performed aqueduct survey/investigation from Sunrise Highway at Pits O to W.

Cedar Creek Microtunnel:

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design, including: Cedar Creek Microtunnel Drives 2-1, 2-3, 4-3, 4-5, and 5-6; Cedar Creek Shafts 1, 2, 3, 4, 5, and 6; Cedar Creek Shafts 1, 2, 3, 4, 5, and 6 Support of Excavation; and Cedar Creek Shafts 1, 2, and 3 Utility Protection and Relocation. Received one (1) RFCD document.
- Received and reviewed a SWPPP submittal related to the Cedar Creek Shafts CC-2 and CC-3 Support of Excavation and Shafts CC-1, CC-2, and CC-3 Utility Protection and Relocation design package.
- Relocation of water utility at Cedar Creek Shaft CC-1; and initiation of Cedar Creek Shaft CC-2 mobilization and site set-up.

Cedar Creek Effluent Pump Station/Receiving Station:

- Received and performed detailed quality and compliance reviews for several packages at 60% level of design, including: Cedar Creek Pump Station Upgrades; and Cedar Creek Receiving Station and Wet Tap.
- Reviewed and processed the "Draft" Condition Assessment Report for 84" Outfall Sewer Route B, located at Cedar Creek.

Expected Progress Next Quarter:

Bay Park Effluent Diversion Pump Station:

- Anticipate receipt of packages at varying levels of design, including: Bay Park Wet Well Liner and Internal Structures; Bay Park Near Surface Structures; Bay Park Pump Station Building; and Bay Park Hydraulic Modeling. Anticipate receipt of two (2) RFCD documents.
- Anticipate installation of Bay Park Wet Well jet grout invert, excavation of Wet Well, and installation of Wet Well base slab and shotcrete walls; excavation of Bay Park Shaft BP-1 and installation of Shaft BP-1 invert slab and walls; and completion of Bay Park Diversion Structure secant piles installation and installation of jet grout at secant pile ends.

Bay Park Microtunnel:

- Anticipate receipt of packages at varying levels of design, including: Bay Park Microtunnel Drives 2-1, 2-3, 3-4, 5-4, 5-7, 8-7, and 8-9; Bay Park Shafts 2, 3, 4, 5, 7, 8, and 9; and Bay Park Shafts 4, 7, 8, and 9 Support of Excavation. Anticipate receipt of three (3) RFCD documents.
- Anticipate excavation of Bay Park Shaft BP-2, installation of concrete liner, and mobilization of MTBM; installation of Bay Park Shaft BP-3 jet grout invert and Shaft BP-3 soil mix, excavation of Shaft BP-3, and installation of base slab; initiation of Bay Park Shaft BP-4 site setup and installation of Shaft BP-4 CSM panels; installation of Bay Park Shaft BP-5 soil mix; installation of Bay Park Shaft BP-7 CSM panels; excavation of Bay Park Shaft BP-8 and installation of Shaft BP-8 CSM panels; and installation of Bay Park Shaft BP-9 CSM panels.

Sunrise Highway Sliplining:

- Anticipate receipt of packages at varying levels of design, including: Sunrise Highway Slipline and Pits A, FF, G, GG, H, I, K, L, M, N, O, P, Q, R, S, T, U, V, and W; and Sunrise Highway Slipline and Work Pits A, B, C, D, E, F, FF, G, GG, H, I, K, L, M, N, O, P, Q, R, S, T, and W Utility Protection and Relocation. Anticipate receipt of five (5) RFCD documents.
- Anticipate installation of Sunrise Highway Work Pits A, B, C, D, E, F, FF, G, GG, H, I, K, L, M, and N; performance of aqueduct survey/investigation from Sunrise Highway Work Pits A to N; Survey access openings at Sunrise Highway Pits O and R Support of Excavation systems, excavate Work Pits O and R, and install pipe; excavate Sunrise Highway Work Pit P; install pipe from Sunrise Highway Work Pits O to P; and install Sunrise Highway Work Pit P Support of Excavation system and clean the invert of the aqueduct from Work Pit Q to Work Pit P.

Cedar Creek Microtunnel:

- Anticipate receipt of packages at varying levels of design, including: Cedar Creek Microtunnel Drives 2-1, 2-3, 4-3, 4-5, and 5-6; Cedar Creek Shafts 1, 2, 3, 4, 5, and 6; Cedar Creek Shafts 1, 4, 5, and 6 Support of Excavation. Anticipate receipt of two (2) RFCD documents.
- Anticipate completion of water utility relocation at Cedar Creek Shaft CC-1 and initiate relocation of electric utility at Shaft CC-1; relocate water utility and electric utility at Cedar Creek Shaft CC-2 and install Shaft CC-2 guide walls and secant piles; initiate Cedar Creek Shaft CC-3 mobilization and site setup, relocate storm sewer utility at Shaft CC-3, and install Shaft CC-3 guide walls and secant piles.

Cedar Creek Effluent Pump Station/Receiving Station:

- Anticipate receipt of packages at varying levels of design, including Cedar Creek Pump Station Upgrades; Cedar Creek Receiving Station and Wet Tap; and Cedar Creek Existing 84" Outfall Air Valves and Wet Vault Tap.
- No construction work planned for Q4 2021.

Wet Weather Flow Reduction

The Modified Agreement has added the following compliance schedule for Wet Weather Flow Reduction, as listed in the following table.

	Description of Work	Agreement Date
1.	Capacity, Management, Operation and Maintenance (CMOM) Program a. Submit CMOM plan for Bay Park STP and Cedar Creek	6/01/2022
	WPCP b. Begin implementing the approved CMOM plans	Upon DEC Approval
2.	CMOM Program – Submit Operating Plan for Bay Park Convey- ance System	60% Design + 6 Months
3.	Preliminary Engineering Report To be included in the 60% Design Report	
4.	Modified SPDES Application Request	10/1/2024
5.	Inflow and Infiltration (I/I) Study Work Plan	60% Design + 6 Months
	a. If required after item 2 obligations are complete, submit I/I study work plans for Bay Park STP and Cedar Creek WPCP b. Submit Report of I/I study findings	Within 9 months of work plan approval or per approved schedule

The County has issued an RFP to their on-call designers to procure the planning and design services for these deliverables and will provide an update in the next quarter.

Environmental Benefit Projects

The formal proposal for the Cedar Creek Kayak Launch was submitted to DEC on August 9, 2021 and was approved on September 24, 2021. The project is currently under review with the DEC Region 1 permitting group and approval is anticipated in the next quarter.

x.0 Certification of Completed Activities

The following table lists the activities for which certification of compliance were submitted.

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Milestone	Date	Certification	Certification
	Completed	Submitted	Accepted
Effluent Screening and Disinfection – Design	1/5/2018	7/5/2018	9/13/2018
East Avenue Ejector Station - Design	3/2/2018	7/5/2018	9/13/2018
Cedar Dr, Roosevelt et al PS - CC	1/12/2018	7/5/2018	11/27/2018
Wantagh, Newbridge et al PS – CC	2/12/2018	7/5/2018	11/27/2018
Sage Lake and Lawrence PS – CC	8/13/2018	8/24/2018	11/27/2018
Ocean Ave, Mill Road et al PS – CC	8/17/2018	9/19/2018	11/27/2018
Sludge Dewatering Facilities – CC	10/12/2018	10/24/2018	1/4/2019
Inwood, Doughty et al PS – CC	2/19/2019	2/28/2019	5/1/2019
Stormwater Pump Stations – CC	3/28/2019	4/3/2019	4/19/2019
Upgrade to 3 Generator Operation – CC	8/30/2019	9/12/2019	11/7/2019
Barnes Ave-Baldwin – CC	11/22/2019	11/25/2019	2/25/2020
Electrical Distribution Upgrades – CC	9/1/2020	10/23/2020	10/30/2020
Secondary Flood Protection – NTP	12/18/19	12/31/19	12/31/19
Sidestream Deammonification – NTP	12/31/19	12/31/19	12/31/19
East Avenue PS NTP	10/29/20	10/29/20	11/2/2020
Effluent Screening and Disinfection NTP	10/29/20	10/29/20	11/2/2020
Level 1 BNR – CC	4/30/20	5/5/20	10/30/2020
Effluent Pumping Facility – CC	5/5/20	6/10/20	10/30/2020
Submit Approvable BNR O&M Plan	1/8/2020	1/8/2020	4/13/2020
Begin operation of the 6-month start-up period	6/1/2020	7/22/2020	-
Begin performance period BNR	1/1/2021	1/13/2021	1/13/2021
Raw Sewage Pumping Facility NTP	5/3/2021	4/30/2021	5/5/2021

Table 9 –	Completed Activities	
1 a D C -	Completed field filles	

x1.0 Community Relations

From July through September 2021, the State, County, and Design-Builder engaged in various community engagement initiatives to disseminate Conveyance Project information.

On July 20, the State, County, and Design-Builder held a second general public information session (since NTP) over Zoom to update communities on the Project's construction progress, reinforce its mission, and to answer any questions from participants.

Meetings with local elected officials and first responders took place on July 27 and September 28, where government officials and fire marshals were debriefed on the Project's construction progress, safety measures and traffic control procedures. The invited entities also had the opportunity to ask questions directly to the Project team regarding any concerns.

Meetings with stakeholders including chambers of commerce, and local civic associations, and homeowners' associations also took place during this quarter, on July 28 and September 29. During these meetings, local stakeholders were invited to listen in on the Project's updates and raise any concerns directly to the Project team.

Nassau County also included the Project on its Safe Driving Campaign event on September 8 to raise awareness surrounding road safety and to combat aggressive driving. The Project's commitment was among initiatives highlighted in the County's program.

The State, County and Design-Builder crafted the Bay Park Conveyance Project Microtunnel Boring Machine (MTBM) Naming Contest for schools along the Project corridor. The contest was publicly announced online on September 17. Students from grades 6 through 8 are invited to name the Project's two MTBMs. Final name selection will take place in Q4 2021.

On September 25, the Design-Builder attended the Bellmore Street Festival to promote the Project. Project brochures/flyers, pens, and magnets were distributed to local residents at the Festival. Local residents had the opportunity to directly ask questions to the Design-Builder.

The Project team continues to respond to public inquiries, release monthly project construction lookaheads, engage in outreach to businesses and residents via canvassing, local events, social media, e-blasts, and maintains a project website.

2021 Q3 Outreach Summary:

Public Information Sessions:

• Quarterly meeting to update general public of project progress and field questions held 7/20.

Monthly recurring meetings:

- First Responders and Elected Officials held 7/27 and 9/28
- Bay Park Stakeholder, Chambers of Commerce, and Civics held 7/28 and 9/29
- Nassau County Safe Driving Campaign held 9/8
- Bay Park Conveyance Project Microtunnel Boring Machine Contest publicly announced on 9/17.

XII.0 Attachments

1. Program Master Schedule

Bay Park Master Schedule 210930		er Schedule Letter	As of 30-Sep-21
Activity Name Orig Dur Rem	Dur Start Finish	% Comp 2013 2014 2015 2016 2017 Q	7 2018 2019 2020 2021 2022 2023 2024 2025 2026 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Bay Park Master Schedule 210930	· · ·		
Existing Capital Projects			
S3B119-05G - Generator Controls			
Design Design - Generator Controls 74	0 21-Oct-13 A 22-Apr-14 A	100	
Procurement	0 21-04-13A 22-Api-14A		
Procurement - Generator Controls 121	0 28-Oct-13 A 25-Feb-14 A	100	
Construction			
Temp Generators Off-line / Plant Power on House Generators 0 Construction - Generator Controls 533	0 18-Nov-14 A 0 15-Nov-13 A 24-Jun-16 A	100 100	
S3B120-01G - Influent Screening Facility Improvements	0 13-100-13 A 24-301-10 A		
CM Contract			
RFP / Advertise CM Services - Influent Screening 30	0 20-Apr-13 A 24-May-13 A	100	
Award / NTP CM Services - Influent Screening 40	0 25-May-13 A 06-Jan-14 A	100	
Construction Contract Bid / Advertise - Influent Screening 40	0 14-Oct-13 A 26-Nov-13 A	100	
Award / NTP - Influent Screening 90	0 27-Nov-13 A 27-May-14 A	100	
Construction - Influent Screening 913	0 27-May-14 A 09-Jun-17 A	100	
S3B120-02G - Grit Removal Facility Improvements		Y	
CM Contract RFP / Advertise CM Services - Grit Removal 30	0 07-Oct-13 A 25-Oct-13 A		
Award / NTP CM Services - Grit Removal 30 Award / NTP CM Services - Grit Removal 40	0 07-0d-13 A 25-0d-13 A 0 26-0d-13 A 26-May-14 A		
Construction Contract			
75% to 100% Design / Bid Documents - Grit Removal 236	0 06-May-13 A 12-Feb-14 A	100	
County Prepare Bid for Advertisement - Grit Removal 7	0 13-Feb-14 A 23-Feb-14 A	100	
Bid / Advertise - Grit Removal 56 Bid Opening - Grit Removal 1	0 24-Feb-14 A 21-Mar-14 A 0 25-Mar-14 A 25-Mar-14 A	100 B	
Award / NTP - Grit Removal 63	0 26-Mar-14 A 20-Apr-15 A		
Construction - Grit Removal 821	0 20-Apr-15 A 18-Jul-17 A	100	
S35100-01G - Cleaning & Repair of Digesters & Storage Tanks			
Construction 720	0 20-May-13 A 16-Apr-15 A	100	
S35114-03G - Sludge Thickening Facility Improvements			
CM Contract			
RFP / Advertise CM Services - Sludge Thickening 30	0 21-Aug-13 A 09-Sep-13 A	100	
Award / NTP CM Services - Sludge Thickening 30	0 10-Sep-13 A 25-Mar-14 A	100	
Construction Contract Award / NTP - Studge Thickening 64	0 21-Aug-13 A 24-Oct-13 A	100	
Construction - Sludge Thickening 730	0 28-Oct-13 A 30-Aug-16 A	100	
S35116-01G - Odor Control at Bay Park & Cedar Creek		▼	
CM Contract			
RFP / Advertise CM Services - Odor Control BP & CC WPCPs 20 Award / NTP CM Services - Odor Control BP & CC WPCPs 30	0 21-Aug-13 A 09-Sep-13 A 0 10-Sep-13 A 10-Mar-14 A		
Construction Contract			
Award / NTP - Odor Control BP & CC WPCPs 64	0 21-Aug-13 A 23-Oct-13 A	100	
Construction - Odor Control BP & CC WPCPs 730	0 28-Oct-13 A 07-Nov-15 A	100	
Hurricane Sandy Projects			
FEMA Approval Process			
FEMA 404 Grants 60 FEMA Finalize Damage Scope and Cost 45	0 12-Aug-13 A 31-Oct-13 A 0 12-Aug-13 A 19-Dec-13 A		
Submit 406 HMP 45	0 12-Aug-13 A 19-Dec-13 A	100	
FEMA 406 HMP Negotiation 90	0 06-Jan-14 A 15-Jan-14 A	100	
FEMA Scope and Cost Negotiation 90	0 20-Dec-13 A 15-Jan-14 A	100	
S35121-01G/E - Final Settling Tank Rehabilitation			
Construction Contract Award / NTP - Final Tank Rehabilitation 64	0 21-Aug-13 A 23-Oct-13 A	100	
Construction - Final Tank Rehabilitation 730	0 28-Oct-13 A 13-May-16 A	100	
CM Contract			
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S35121-03G - Raw Sewage Pumping Facility																						·					
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Preliminary Design - Raw Sewage Pumping Facility	88			23-Feb-15 A	100																						
RFP / Advertise Final Design - Raw Sewage Pumping Facility	29		-	27-Mar-15 A	100																						
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S35121-11G - Effluent Screening & Disinfection						•		T			++								++	Ħ	1	/					
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	Bid / Advertise - Effluent Screening & Disinfection	29	0	13-Jul-18 A	10-Aug-18 A	100																	
	Bid Opening - Effluent Screening & Disinfection	1	0	14-Aug-18 A	14-Aug-18 A	100																	
	Award / NTP - Effluent Screening & Disinfection	180	0	15-Aug-18 A	04-Nov-20 A	100									: .								
	Construction - Effluent Screening & Disinfection	784	504	04-Nov-20 A	16-Feb-23*	36																	
	S35121-12G - Effluent Pumping Facility Improvements															1							
	CM Contract																						
	RFP / Advertise CM Services - Effluent Tide PB	29	0	01-May-15 A	29-May-15 A	100																	
	Award / NTP CM Services - Effluent Tide PB	90	0	30-May-15 A	24-Aug-17 A	100																	
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	Preliminary Design - Effluent Tide PB	85	0	26-Sep-13 A	27-Feb-14 A	100																	
	RFP / Advertise Final Design - Effluent Tide PB	30	0	28-Feb-14 A	28-Mar-14 A	100																	
	Award / NTP Final Design - Effluent Tide PB	90	0	31-Mar-14 A	08-Dec-14 A	100																	
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	Award / NTP - Effluent Tide PB	90	0	16-Sep-15 A	24-Aug-17 A	100																	
	Construction - Effluent Pumping Facility Improvements	820	0	24-Aug-17 A	05-May-20 A	100						📫											
	S35121-13E - Phase E1 Electrical Distribution Systems Improvement	nts					-																
	CM Contract						•																
	RFP / Advertise CM Services - Phase E1 EDS	30	0	02-Jan-14 A	24-Jan-14 A	100																	
	Award / NTP CM Services - Phase E1 EDS	90	0	25-Jan-14 A	07-Jul-14 A	100		—															
	Design Process						-	,															
	Phase E1 Design	119	0	15-Aug-13 A	11-Dec-13 A	100										+				··			
	Finalize Technical Memorandum - Phase 1 EDS	45	0	12-Aug-13 A	03-Jan-14 A	100	—																
	Bid / Construction																						
	County Prepare Bid for Advertisement - Phase E1 EDS	7	0	12-Dec-13 A	19-Dec-13 A	100																	
	Bid / Advertise - Phase E1 EDS	30	0	20-Dec-13 A	31-Jan-14 A	100																	
	Bid Opening - Phase E1 EDS	1	0	06-Feb-14 A	06-Feb-14 A	100		T								**							
	Award / NTP - Phase E1 EDS	76	0	07-Feb-14 A	27-May-14 A	100																	
	Construction - Phase E1 EDS	670	0	27-May-14 A	19-Oct-16 A	100																	
	S35121-14E - Phase E2 Unit Substation No. 2 & Electrical Distributio	n						,															
	Design Process																						
	Phase E2 Design - EDS - USS No. 2	155	0	04-Apr-14 A	18-Aug-14 A	100										1 1 1							
	Bid / Construction				_			-															
	County Prepare Bid for Advertisement - EDS Phase E2 - USS No.2	7	0	21-Aug-14 A	27-Aug-14 A	100		1															
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	Construction - Phase E2 - USS No. 2	660	0	11-May-15 A	29-Sep-17 A	100																	
	S35121-14F - Phase E3 Main Substation & Electrical Distribution				· · · ·													-					
	Design Process								-														
	Phase E3 Design - EDS - Main Substation	285	0	01-Apr-14 A	09-Feb-15 A	100																	
	Bid / Construction								-							+		-		···			
	County Prepare Bid for Advertisement - EDS Phase E3 - MSS	7	0	10-Feb-15 A	12-Feb-15 A	100																	
	Bid / Advertise - EDS Phase E3 - Main Substation	36	0	13-Feb-15 A	17-Apr-15 A	100																	
	Bid Opening - EDS Phase E3 - Main Substation	1	0	21-Apr-15 A	21-Apr-15 A	100			171														
	Award / NTP - EDS Phase E3 - Main Substation	90	0	22-Apr-15 A	05-Oct-15 A	100																	
	Construction - Phase E3 - Main Substation (Substantial Completion)	1095	0	05-Oct-15 A	01-Sep-20 A	100									-44	<u>*</u>	· • • • • •						
	Construction - Phase E3 - Change Order 118 Switchgear & Transformer	365	123	02-Sep-20 A	31-Jan-22*	66											1 1						
	S35121-14M - Phase E2 & E3 Construction Management	000	.23					-										Т					
	CM Contract							_															
	RFP / Advertise CM Services - Electrical Phase E2 & E3	29	0	25-Jul-14 A	22-Aug-14 A	100																	
	Award / NTP CM Services - Electrical Phase E2 & E3	90	0		08-Jun-15 A	100										+	÷			·	·+·+·		
		90	J	20-Aug-14 A	00-5011-15 A	100																	
	S35123-L33E - Phase E4 Electrical Utility Connections															: : [I	1			

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Actual Work
Remaining Work

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ark Master Schedule 210930	Orig Dur	Rem Dur	Start	Finish	ter Scheo		2014	201	15	2016	20)17	201	8	2019		2020	20)21	202	2	2023		2024	of 30-	
5		Ren Dui	Start	FILISI																			_			
Design Process						-			:			: :		1					:		-					
Preliminary Design - Phase E4 Electrical Utility Connections	90	0	15-Dec-17 A	04-Jun-18 A	100																					
RFP / Advertise - Final Design - Phase E4 Electrical Utility Connections	29	0	12-Oct-18 A	09-Nov-18 A	100			LLL									ii.							L.L.J.		j.
Award / NTP Final Design - Phase E4 Electrical Utility Connections	120	0	09-Nov-18 A	22-Jan-20 A	100																					
Final Design - Phase E4 Electrical Utility Connections	180	0	22-Jan-20 A	16-Sep-20 A	100																					
PSE&G Coordination	5	432	12-Aug-13 A	06-Dec-22	0	: 															-					
Bid / Construction																	-									
County Prepare Bid for Advertisement - Phase E4 Electrical Utility Connection	7	0	17-Sep-20 A	24-Sep-20 A	100												1									
Bid / Advertise - Phase E4 Electrical Utility Connections	29	0	25-Sep-20 A	23-Oct-20 A	100							+							<u>†</u>							
Bid Opening - Phase E4 Electrical Utility Connections	1	0	27-Oct-20 A	27-Oct-20 A	100																					
Award / NTP - Phase E4 Electrical Utility Connections	180	0	28-Oct-20 A	14-Jun-21 A	100													1								
Construction - Phase E4 Electrical Utility Connections	540	432	15-Jun-21 A	06-Dec-22*	20															1 : :	<u> </u>					
Energize & Commission PSEGLI Power	0	0		31-Dec-22*	0																					
SEG-LI - Phase E4 Primary Power by PSEG-LI	Ŭ	•		01 200 22	, , , , , , , , , , , , , , , , , , ,										·		ii-				<u> </u>	·				
																	1 <u>I</u>									
Construction	E40	457	02 Oct 20 A	21 Dec 22*	15														1							
Construction - Phase E4 Primary Power by PSEG-LI	540	457	02-Oct-20 A	31-Dec-22*	15														:		;					
35121-16A- Engine Facility Auxiliary Upgrades																										
_Design Process							ļ. I. İ. İ.	111				L.İ.,			. <u> </u>					1.1.1				L.L.		
Final Design - Engine Facility Auxiliary Upgrades	195	0	01-Nov-15 A	30-Sep-16 A	100				- 1																	
Bid / Construction										•					-											
County Prepare Bid for Advertisement - Engine Facility Auxiliary Upgrades	21	0	30-Sep-16 A	20-Oct-16 A	100					1																
Bid / Advertise - Engine Facility Auxiliary Upgrades	29	0	21-Oct-16 A	18-Nov-16 A	100																					
Bid Opening - Engine Facility Auxiliary Upgrades	1	0	22-Nov-16 A	22-Nov-16 A	100						1															
Award / NTP - Engine Facility Auxiliary Upgrades	90	0	23-Nov-16 A	05-Jul-17 A	100																		[L L		
Construction - Engine Facility Auxiliary Upgrades	365	0	05-Jul-17 A	30-Aug-19 A	100									;	; ;											
35121-16G - Secondary Flood Protection & Hardening of Critical Fac	ilities			Ű						-									-							
CM Contract																										
	29	0	28-Jul-17 A	25 Aug 17 A	100									T		•										
RFP / Advertise CM Services - Secondary Flood Protection	29 90	0		25-Aug-17 A	100			+-+-+				;- <u>.</u>				<u></u>			÷	+						
Award / NTP CM Services - Secondary Flood Protection	90	0	26-Aug-17 A	02-Dec-19 A	100										1.1											
Design Process												7														
Preliminary Design - Secondary Flood Protection	90	0	01-Dec-14 A	29-Oct-15 A	100																					
Finalize Technical Memorandum - Secondary Rood Protection	45	0	21-Apr-14 A	29-Oct-15 A	100																					
RFP / Advertise Final Design - Secondary Flood Protection	29	0	30-Oct-15 A	04-Dec-15 A	100		l					ļ							ļ.,							
Award / NTP Final Design - Secondary Flood Protection	90	0	05-Dec-15 A	08-Nov-16 A	100																					
Final Design - Secondary Flood Protection	210	0	09-Nov-16 A	07-Jul-17 A	100																					
Bid / Construction											1				1.1		1 1		1	7						
County Prepare Bid for Advertisement - Secondary Rood Protection	7	0	10-Jul-17 A	27-Jul-17 A	100																					
Bid / Advertise - Secondary Flood Protection	29	0	27-Oct-17 A	01-Dec-17 A	100																					. 1
Bid Opening - Secondary Flood Protection	1	0	05-Dec-17 A	05-Dec-17 A	100							1														
Award / NTP - Secondary Rood Protection	90	0	06-Dec-17 A	18-Dec-19 A	100																					
Construction - Secondary Flood Protection	730	105	18-Dec-19 A	13-Jan-22*	86											; 📥			-	• ! !						
35121-16P - Heating Hot Water Piping Permanent System									-						-									-		
CM Contract																			1 -	┝┷┙┆	i.					
RFP / Advertise CM Services - Heating Hot Water Piping Permanent System	29	22	24-Sep-21 A	22-Oct-21	24														- h	+						
Award / NTP CM Services - Heating Hot Water Piping Permanent System	180	180	23-Oct-21	20-Apr-22															: Г –	Li i						
	100	100	20 001-21	20710-22	0																					
Design Process Preliminary Design - Heating Hot Water Piping Permanent System	90	0	02-Nov-15 A	09-Sep-16 A	100														I T							
				09-Sep-16 A	100																					
RFP / Advertise - Final Design - Heating Hot Water Piping Permanent System	29	0	19-Oct-18 A	16-Nov-18 A	100							į											⊧ 			
Award / NTP Final Design - Heating Hot Water Piping Permanent System	159	0	16-Nov-18 A	16-Sep-20 A	100										1.1											
Final Design - Heating Hot Water Piping Permanent System	196	42	16-Sep-20 A	11-Nov-21	79																					
Bid / Construction																										
County Prepare Bid for Advertisement - Heating Hot Water Piping Permanent	7	7		09-Dec-21	0														1							
Bid / Advertise - Heating Hot Water Piping Permanent System	29	29	10-Dec-21	07-Jan-22	0															9						
Bid Opening - Heating Hot Water Piping Permanent System	1	1	11-Jan-22	11-Jan-22	0														1							
Award / NTP - Heating Hot Water Piping Permanent System	180	180	12-Jan-22	10-Jul-22	0																					
Construction - Heating Hot Water Piping Permanent System	730	730	10-Jul-22	08-Jul-24*	0																					
35121-16TR - Vehicle Fueling & Tanks Reconstruction													V													
Design Process							-																			
Design - Vehicle Fueling	53	0	10-Mar-14 A	02-May-14 A	100			+-+-+				<u>+</u>							†	+			<u></u>			
Bid / Construction	55	J							1	1 1 1			-													
Buroonsauction								1 1 7		: : :		<u>; ; [</u>	*: :	1	1 1		11		;		;	; ;		; ; ;		_
Remaining Level of Effort Actual Work	k				Page 4	of 10										тт			_				-	.~		

Bay Park Master Schedule 210930				Mas	ter Scheo	dule l	_etter																A	s of	30-Sej	o-21
Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp 2		2014		2015		016	2017 0000		2018 0 0 0 0	201 0 0 0		2020 0.00	202		2022 0 0 0 0		2023 0.0.0	202		2025	2026
County Prepare Bid for Advertisement - Vehicle Fueling	7	0	02-May-14 A	08-May-14 A	100																				aaa	aaa
Bid / Advertise - Vehicle Fueling	29	0	09-May-14 A	06-Jun-14 A	100																					
Bid Opening - Vehide Fueling	1	0	10-Jun-14 A	10-Jun-14 A	100		1																			
Re-Bid / Advertise - Vehicle Fueling	29	0	27-Mar-15 A	24-Apr-15 A	100																					
Bid Opening - Vehide Fueling	1	0	28-Apr-15 A	28-Apr-15 A	100																					
Award / NTP - Vehicle Fueling	90	0	29-Apr-15 A	12-Jun-16 A	100																					
Construction - Vehide Fueling	274	0	13-Jun-16 A	30-Jan-18 A	100																					
S35121-16V - Dechlorination Vault Storm Mitigation								•		1																
Design Process													T T	-†-†-						111	1-1-1					
Design - Dechlor Sample Vault Hardening	180	0	27-Mar-15 A	22-Oct-15 A	100				÷																	
Bid / Construction									-			-														
County Prepare Bid for Advertisement - Dechlor Sample Vault Hardening	7	0	23-Oct-15 A	29-Oct-15 A	100				1																	
Bid / Advertise - Dechlor Sample Vault Hardening	36	0	30-Oct-15 A	04-Dec-15 A	100																					
Bid Opening - Dechlor Sample Vault Hardening	1	0	08-Dec-15 A	08-Dec-15 A	100			[]]						T						11				1		
Award / NTP - Dechlor Sample Vault Hardening	90	0	12-Dec-15 A	11-May-16 A	100					÷																
Construction - Dechlor Sample Vault Hardening	270	0	11-May-16 A	11-Aug-17 A	100						<u> </u>	<u> </u>														
S35121-17G - Perimeter Flood Protection						-						-														
CM Contract							<u>₩</u>																			
RFP / Advertise CM Services - Perimeter Flood Protection	30	0	10-Jan-14 A	07-Feb-14 A	100			[+							
Award / NTP CM Services - Perimeter Rood Protection	90	0	08-Feb-14 A	30-Jun-14 A	100																					
Design Process							7																			
Geotech Borings - Perimeter Flood Protection	85	0	12-Aug-13 A	17-Dec-13 A	100																					
Permitting (EAS) - Perimeter Flood Protection	125	0	12-Aug-13 A	17-Dec-13 A	100																					
Berm Design - Perimeter Flood Protection	83	0	26-Sep-13 A	17-Dec-13 A	100																1					
Finalize Technical Memorandum - Perimeter Flood Protection	45	0	12-Aug-13 A	17-Dec-13 A	100																					
Public Review/Comment Period	30	0	17-Dec-13 A	16-Jan-14 A	100																					
Bid / Construction																										
County Prepare Bid for Advertisement - Perimeter Flood Protection	7	0	17-Jan-14 A	23-Jan-14 A	100		1																			
Bid / Advertise - Perimeter Flood Protection	29	0	24-Jan-14 A	14-Mar-14 A	100																1					
Bid Opening - Perimeter Flood Protection	1	0	18-Mar-14 A	18-Mar-14 A	100																					
Award / NTP - Perimeter Flood Protection	76	0	19-Mar-14 A	27-May-14 A	100																					
Eastern Park Open	0	0		07-Oct-15 A	100				•																	
Construction - Perimeter Flood Protection	740	0	27-May-14 A	09-Jun-17 A	100						i i i															
S35121-18G - Flood Protection Phase 1 Stormwater Pumping Station	S					1																				
CM Contract										-																
RFP / Advertise CM Services - Flood Protection Phase 1 Stormwater PS	29	0	31-Jul-15 A	28-Aug-15 A	100																					
Award / NTP CM Services - Flood Protection Phase 1 Stormwater PS	90	0	29-Aug-15 A	17-Jun-16 A	100																					
Design Process																										
Preliminary Design Flood Protection Phase 1 Stormwater PS	97	0	18-Dec-13 A	17-Apr-14 A	100				1111					11										1		
RFP / Advertise Final Design Flood Protection Phase 1 Stormwater PS	29	0	18-Apr-14 A	16-May-14 A	100																					
Award / NTP Final Design Rood Protection Phase 1 Stormwater PS	90	0	17-May-14 A	10-Nov-14 A	100																					
Final Design Flood Protection Phase 1 Stormwater PS	210	0	10-Nov-14 A	28-Aug-15 A	100			; –																		
Bid / Construction									-																	
County Prepare Bid for Advertisement - Rood Protection Phase 1 Stormwate	7	0	28-Aug-15 A	03-Sep-15 A	100	1								T					11							
Bid / Advertise - Flood Protection Phase 1 Stormwater PS	29	0	04-Sep-15 A	02-Oct-15 A	100																					
Bid Opening - Flood Protection Phase 1 Stormwater PS	1	0	06-Oct-15 A	06-Oct-15 A	100																					
Award / NTP - Rood Protection Phase 1 Stormwater PS	90	0	30-Sep-15 A	31-May-16 A	100					÷																
Construction - Flood Protection Phase 1 Stormwater PS	760	0	31-May-16 A	24-Jun-19 A	100						: : : {}		: 1 . 	 												
S35121-18S - Flood Protection Phase 2 Stormwater Green Infrastruc	ture										1			T												
Design Process										V.	Y															
Preliminary Design - Flood Protection Phase 2 Stormwater Gl	96	0	31-Jan-16 A	26-May-16 A	100					—																
RFP / Advertise - Final Design Flood Protection Phase 2 Stormwater Gl	29	0	27-May-16 A	24-Jun-16 A	100						i															
S35123-L37 - Miscellaneous Storm Repairs, Mitigation & Site Restore	ation																								-	
CM Contract								[]]														-				
RFP / Advertise CM Services - Misc Storm Repairs, Mitigation & Restoration	31	31	13-Dec-22	12-Jan-23	0																•					
Award / NTP CM Services - Misc Storm Repairs, Mitigation & Restoration	180	180	13-Jan-23	11-Jul-23	0																					
Design Process															•						•					
Conceptual Design - Misc Storm Repairs, Mitigation & Site Restoration	90	11	05-Jul-19 A	11-Oct-21	88											ا ا										
RFP / Advertise - Final Design - Misc Storm Repairs, Mitigation & Site Restoral	29	29	12-Oct-21	09-Nov-21	0																					
Award / NTP Final Design - Misc Storm Repairs, Mitigation & Site Restoration	180	180	10-Nov-21	08-May-22	0														Ļ							
Remaining Level of Effort Actual Wo					Page 5 d	of 10										Н	27	zen	C			<u>^</u> /I	<u>ר</u>			
Actual Level of Effort Remaining	Work																42				ITURE					

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Activity Na	me	Orig Dur	Rem Dur	Start	Finish	% Comp		2014	2015 0 0 0 0			2017 0 0 0 0			2021 0 0 0 0	2022 0 0 0 0	2023 0 0 0 0 0		2025 00000	2026 2 0 0 0
	Final Design - Misc Storm Repairs, Mitigation & Site Restoration	270	270	09-May-22	02-Feb-23	0														
	Bid / Construction																-			
	County Prepare Bid for Advertisement - Misc Storm Repairs, Mitigation & Site	7	7	03-Feb-23	09-Feb-23	0			l.l.l.											
	Bid / Advertise - Msc Storm Repairs, Mitigation & Site Restoration	29	29	10-Feb-23	10-Mar-23	0										TTH	0			
	Bid Opening - Misc Storm Repairs, Mitigation & Site Restoration	1	1	14-Mar-23	14-Mar-23	0														
	Award / NTP - Misc Storm Repairs, Mitigation & Site Restoration	180	180	15-Mar-23	10-Sep-23	0														
	Construction - Misc Storm Repairs, Mitigation & Site Restoration	731	731	10-Sep-23	09-Sep-25*	U														
	S3B119-06G - Bay Park STP Heating Hot Water Piping Temporary Sys	stem																		
	Design Process																			
	Final Design - Heating Hot Water Piping Temporary System	90	0	01-May-15 A	17-Jun-15 A	100					_									
	Bid / Construction	7	0	12-Jun-15 A	18-Jun-15 A	100														
	County Prepare Bid for Advertisement - Heating Hot Water Piping Temporary Bid / Advertise - Heating Hot Water Piping Temporary System	8	0	12-Jun-15 A 19-Jun-15 A	26-Jun-15 A	100														
	Bid Opening - Heating Hot Water Piping Temporary System	1	0	30-Jun-15 A	30-Jun-15 A	100														
	Award / NTP - Heating Hot Water Piping Temporary System	13	0	01-Jul-15 A	13-Jul-15 A	100														
	Construction - Heating Hot Water Piping Temporary System	124	0	13-Jul-15 A	04-Aug-16 A	100				: :										
	S35121-06G - Aeration Blower Facility		-		J						-								<u> </u>	
	CM Contract																			
	RFP / Advertise CM Services - Aeration Blower Facility	29	29	15-Dec-22	12-Jan-23	0														
	Award / NTP CM Services - Aeration Blower Facility	180	180	13-Jan-23	11-Jul-23	0														
	Design Process														-					
	Preliminary Design - Aeration Blower Facility	180	0	01-Nov-16 A	15-Dec-16 A	100														
	Resolve Power Availability Issue for Aeration Blower Building / PSEG	147	0	01-Jul-18A	30-Jun-20 A	100														
	RFP / Advertise - Final Design - Aeration Blower Facility	29	29	10-Nov-21*	08-Dec-21	0														
	Award / NTP Final Design - Aeration Blower Facility	180	180	09-Dec-21	06-Jun-22	0														
	Final Design - Aeration Blower Facility	240	240	07-Jun-22	01-Feb-23	0														
	Bid / Construction																			
	County Prepare Bid for Advertisement - Aeration Blower Facility	7	7	02-Feb-23	08-Feb-23	0														
	Bid / Advertise - Aeration Blower Facility	29	29	10-Feb-23	10-Mar-23	0														
	Bid Opening - Aera tion Blower Facility	1	1	14-Mar-23	14-Mar-23	0														
	Award / NTP - Aeration Blower Facility	180	180	15-Mar-23	10-Sep-23	0														
	Construction - Aeration B b wer Facility	1095	1095	10-Sep-23	08-Sep-26*	0										L				
	S35123-L38H - Contaminated Soil Hauling & Disposal									ļ				- 		T				
	Design Process	070			07.1.01.4	100														
	Prepare Design Documents - Contaminated Soil Hauling & Disposal	270	0	26-Oct-20 A	07-Jan-21 A	100														
	Bid / Construction County Prepare Bid for Advertisement - Contaminated Sol Hauling & Dispose	7	0	08-Jan-21 A	14-Jan-21 A	100										T				
	Bid / Advertise - Contaminated Soil Hauling & Disposal	29	0	15-Jan-21 A	12-Feb-21 A	100														
	Bid Opening - Contaminated Soil Hauling & Disposal	1	0	16-Feb-21 A	16-Feb-21 A	100				÷				·┤┊┊┆┞ <mark>-</mark> -}		+				
	Award / NTP - Contaminated Soil Hauling & Disposal	180	32	17-Feb-21 A	01-Nov-21	82														
	Construction - Contaminated Soil Hauling & Disposal	90	90	01-Nov-21	29-Jan-22*	0														
	33P311 - Pump Stations					-	-													
	· · · · · · · · · · · · · · · · · · ·						_													
	S3P311-01G - Dock Place & Southland Drive																			
	Construction Construction - Dock Place & Southland Drive Pump Stations	240	0	28-Oct-13 A	31-Oct-14 A	100														
	S3P311-02G - Cedar, Roos evelt, Whitewood, Biltmore & Alhambra	240	0	28-04-13 A	31-00-14 A	100	-						.							
	Design Process Finalize Technical Memorand um - Pump Station 2	140	0	12-Aug-13 A	22-Nov-13 A	100														
	Preliminary Design - Pump Station 2	67	0	23-Nov-13 A	28-Jan-14 A	100		<u></u>		÷						+				
	RFP / Advertise Final Design - Pump Station 2	30	0	31-Jan-14 A	28-Feb-14 A	100		T.												
	Award / NTP Final Design - Pump Station 2	90	0	01-Mar-14 A	23-Sep-14 A	100														
	Final Design - Pump Station 2	90	0	23-Sep-14 A	26-Mar-15 A	100														
	Bid / Construction								-				.							
	County Prepare Bid for Advertisement - Pump Station 2	7	0	27-Mar-15 A	09-Apr-15 A	100			1	÷	111				· • • • • •					
	Bid / Advertise - Pump Station 2	29	0	10-Apr-15 A	08-May-15 A	100														
	Bid Opening - Pump Station 2	1	0	12-May-15 A	12-May-15 A	100														
	Award / NTP - Pump Station 2	90	0	13-May-15 A	03-Mar-16 A	100														
	Construction - Pump Station 2	548	0	03-Mar-16 A	12-Jan-18 A	100														
	S3P311-03G - Wantagh, Newbridge, Merrick & Ray						-													
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	Remaining Level of Effort Actual Wor	k				Page 6	of 10						1	Haze	n	Δ	οσλι	אר		

Actual Level of Effort

Remaining Work



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Activity Na	ime	Orig Dur	Rem Dur	Start	Finish	% Comp 2		2014		015	2016		2017	201	2019	202		2021		2022			2024		2025	2026
	Design Process					(QQQ			QQQ	QQQ	alala			QQQ		200		QQ		QQ	alala		alala	alala
	Finalize Technical Memorandum - Pump Station 3	140	0) 12-Aug-13 A	22-Nov-13 A	100																				
	Preliminary Design - Pump Station 3	67	0		28-Jan-14 A	100																				
	RFP / Advertise Final Design - Pump Station 3	30	0		28-Feb-14 A	100																				
	Award / NTP Final Design - Pump Station 3	90	0		23-Sep-14 A	100									 +											
	Final Design - Pump Station 3	90	0		13-Apr-15 A	100																				
	Bid / Construction	00		20 000 1111	ionpi ion	100					_															
	County Prepare Bid for Advertisement - Pump Station 3	7	0	14-Apr-15 A	30-Apr-15 A	100																				
	Bid / Advertise - Pump Station 3	29	0		29-May-15 A	100																				
	Bid Opening - Pump Station 3	1	0		02-Jun-15 A	100									 +		•••••••	+	+							
	Award / NTP - Pump Station 3	90	0		03-Mar-16 A	100																				
	Construction - Pump Station 3	540	0		12-Feb-18 A	100																				
	S3P311-02M - PS2 & PS3 Construction Management										-			TH												
	CM Contract										-															
	RFP / Advertise CM Services - PS2 & PS3	29	0	03-Oct-14 A	31-Oct-14 A	100									 			·								
	Award / NTP CM Services - PS2 & PS3	90	0		03-Mar-16 A	100				1 1																
	S3P311-04G - Felix, Fox, Northern & Grand	55		011104 1477	00 mai 1070	100	_				-															
	Design Process																									
	Finalize Technical Memorand um - Pump Station 4	140	0	12-Aug-13 A	22-Nov-13 A	100																				
	Preliminary Design - Pump Station 4	67	0	-	22-N0V-13 A 27-Feb-14 A	100				÷				+-+-+	 ÷		· · · · · · · · ·	+-+	+-+	÷			·			
	RFP / Advertise Final Design - Pump Station 4	30	0		28-Mar-14 A	100																				
	Award / NTP Final Design - Pump Station 4	90	0		17-Sep-14 A	100																				
	Final Design - Pump Station 4	90	0		13-Mar-15 A	100																				
	Bid / Construction	50	0	П-бер-14 А	13-IVIAI-13 A	100																				
	County Prepare Bid for Advertisement - Pump Station 4	7	0) 13-Mar-15 A	19-Mar-15 A	100				÷					 ÷		·		+ - +							
	Bid / Advertise - Pump Station 4	29	0		17-Apr-15 A	100																				
	Bid Opening - Pump Station 4	1	0		21-Apr-15 A	100			15																	
	Award / NTP - Pump Station 4	90	0		15-Nov-15 A	100																				
	Construction - Pump Station 4	420	0		29-Aug-17 A	100																				
	S3P311-05G - Millar, Mott, Long Beach, Royal & Lido	420	0	10-1107-13 A	23-Aug-17 A	100								·	 +		·	·	+	÷						-+++
	Design Process Finalize Technical Memorand um - Pump Station 5	140	0) 12-Aug-13 A	22-Nov-13 A	100																				
	Preliminary Design - Pump Station 5	67	0		27-Mar-14 A	100																				
	RFP / Advertise Final Design - Pump Station 5	30	0		27-Iviai-14 A 25-Apr-14 A	100																				
		94	0	-	01-Dec-14 A	100								·	 ÷		·									
	Award / NTP Final Design - Pump Station 5 Final Design - Pump Station 5	94	0		01-Dec-14 A 01-May-15 A	100																				
	Bid / Construction	90	0	01-Dec-14 A	01-May-13 A	100																				
	County Prepare Bid for Advertisement - Pump Station 5	7	0	02-May-15 A	21-May-15 A	100																				
	Bid / Advertise - Pump Station 5	29	0	-	19-Jun-15 A	100																				
	Bid Opening - Pump Station 5	29	0	,	23-Jun-15 A	100									 +				+-+							
	Award / NTP - Pump Station 5	90	0		23-Jun-15 A 15-Nov-15 A	100																				
	Construction - Pump Station 5	540	0		29-Aug-17 A	100							<u> </u>													
	S3P311-04M - PS4 & PS5 Construction Management	0-0		101.07 1077	201.091171	100				i i i																
	CM Contract																									
	REP / Advertise CM Services - PS4 & PS5	29	0	07-Nov-14 A	05-Jan-15 A	100				+				<u></u>	 +		·	+-+	+-+	<u></u> }	<u></u>					
	Award / NTP CM Services - PS4 & PS5	90	0		16-Nov-15 A	100																				
	S3P311-06G - Ocean, Mill, Woodmere & Longacre	90	U		10-140V-10 A	100	-																			
	Design Process Finalize Technical Memorand um - Pump Station 6	140	0	12-Aug-13 A	22-Nov-13 A	100																				
	Preliminary Design - Pump Station 6	67	0	-	22-NOV-13 A 25-Apr-14 A	100				+				+	 +		·		+-+		⊹ - <u> </u>					
	RFP / Advertise Final Design - Pump Station 6	29	0		30-May-14 A	100																				
	Award / NTP Final Design - Pump Station 6	90	0		15-Apr-15 A	100																				
	Final Design - Pump Station 6	90	0	-	17-Sep-15 A	100																				
	- · · ·	90	U		17-06p-10 A	100																				
	Bid / Construction County Prepare Bid for Advertisement - Pump Station 6	7	0	18-Sep-15 A	24-Sep-15 A	100									 +		·		+							
	Bid / Advertise - Pump Station 6	29	0	-	23-Oct-15 A	100																				
	Bid Opening - Pump Station 6	29	0	-	23-0d-15 A 27-0d-15 A	100																				
	Award / NTP - Pump Station 6	90	0		15-Mar-17 A	100																				
	Construction - Pump Station 6	550		15-Mar-17 A	15-Iviar-17 A 17-Aug-18 A	100																				
		550	0		IT Aug-10 A	100				1			1 1	T : :	1		1			<u> i </u>						

Remaining Level of EffortActual Level of Effort

Actual Work
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Park Master Schedule 210930	Orig Dur	Rem Dur	Start	Finish	ter Sche % Comp		2014	2015	201	6	2017	2018	8	2019	2020	20)21	202	22	2023		As (202	
S3P311-07G - Inwood, Doughty, Bayview & Roslyn													1	▼										
Design Process	140	0	10 Aug 10 A	00 Nov 40 A	400																			
Finalize Technical Memorandum - Pump Station 7	140	0	•	22-Nov-13 A	100																			
Preliminary Design - Pump Station 7	67	0	23-Mar-14 A	28-May-14 A	100																			
RFP / Advertise Final Design - Pump Station 7	29	0	30-May-14 A	27-Jun-14 A	100						+													
Award / NTP Final Design - Pump Station 7	90	0	28-Jun-14 A	13-May-15 A	100																			
Final Design - Pump Station 7	90	0	13-May-15 A	16-Nov-15 A	100				-															
Bid / Construction		0	10.11.15.4	40.11 45.4	400																			
County Prepare Bid for Advertisement - Pump Station 7	7	0	16-Nov-15 A	19-Nov-15 A	100				<u>'</u>															
Bid / Advertise - Pump Station 7	29		20-Nov-15 A	18-Dec-15 A	100				• • • • • • • • • • • • • • • • • • • •															
Bid Opening - Pump Station 7	1		22-Dec-15 A	22-Dec-15 A	100																			11
Award / NTP - Pump Station 7	90		23-Dec-15 A	15-Mar-17 A	100	- i i -																		
Construction - Pump Station 7	540	0	15-Mar-17 A	13-May-19 A	100																			
S3P311-06M - PS6 & PS7 Construction Management																								
CM Contract											K					ļ	Ļ.,							
RFP / Advertise CM Services - PS6, PS7 & PS8	29		22-May-15 A	19-Jun-15 A	100																			
Award / NTP CM Services - PS6, PS7 & PS8	90	0	20-Jun-15 A	15-Mar-17 A	100					:														
S3P311-08G - East Avenue																								
CM Contract																▼								
RFP / Advertise CM Services - East Avenue Pump Station	29	0	08-Mar-19 A	05-Apr-19 A	100								1											
Award / NTP CM Services - East Avenue Pump Station	180	0	06-Apr-19 A	27-Oct-20 A	100																			
Design Process												7												
Prepare Flow Study & Technical Memoran dum - Pump Station 8	27	0	18-Dec-15 A	14-Jul-16 A	100																			
RFP / Advertise - Pump Station 8	29	0	15-Jul-16 A	12-Aug-16 A	100																			
Award / NTP Final Design - Pump Station 8	90	0	13-Aug-16 A	29-Mar-17 A	100																			
Final Design - East Avenue Pump Station	270	0	29-Mar-17 A	23-Dec-17 A	100																			
Bid / Construction					1						•						-	┿┥						
County Prepare Bid for Advertisement - East Avenue Pump Station	7	0	24-Dec-17 A	07-Mar-19 A	100								<u> </u>											
Bid / Advertise - East Avenue Pump Station	29	0	08-Mar-19 A	05-Apr-19 A	100								1											11
Bid Opening - East Avenue Pump Station	1	0	09-Apr-19 A	09-Apr-19 A	100									•										
Award / NTP - East Avenue Pump Station	180	0	09-Apr-19 A	02-Nov-20 A	100	1111	1-1-1-1				1-1-1	·					† T				t i			TT
Construction - East Avenue Pump Station	540	179	02-Nov-20 A	28-Mar-22*	67																			
S3P311-09G - Hempstead Wastewater Pumping Station						V																		
Design Process						•																		
RFP / Advertise Final Design - Hempstead Wastewater Pumping Station	29	0	22-Nov-13 A	20-Dec-13 A	100																			
Award / NTP Final Design - Hempstead Wastewater Pumping Station	90	0	21-Dec-13 A	29-May-14 A	100													ii			· · · · · · ·			11
Final Design - Hempstead Wastewater Pumping Station	185			24-Jun-15 A	100	4 3 3 4																		
Bid / Construction																								
County Prepare Bid for Advertisement - Hempstead Wastewater Pumping S	ti 7	0	25-Jun-15 A	30-Jun-15 A	100																			
Bid / Advertise - Hempstead Wastewater Pumping Station	29	0	03-Jul-15 A	14-Aug-15 A	100																			
Bid Opening - Hempstead Wastewater Pumping Station	1	0	18-Aug-15 A	18-Aug-15 A	100													·			· · · · · ·			11
Award / NTP - Hempstead Wastewater Pumping Station	90	0	19-Aug-15 A	25-Apr-16 A	100																			
Construction - Hempstead Wastewater Pumping Station	460	0	25-Apr-16 A	22-Nov-19 A	100					:														
S3P311-09S - Hempstead Wastewater Force Main			-			V								V										11
Design Process																								
RFP / Advertise Final Design - Hempstead Wastewater Force Main	29	0	22-Nov-13 A	20-Dec-13 A	100						+					+	÷-	+-+-+			<u>+-</u> +-+			
Award / NTP Final Design - Hempstead Wastewater Force Main	90	0	21-Dec-13 A	29-May-14 A	100																			
Final Design - Hempstead Wastewater Force Main	185			24-Jun-15 A	100	4 3 3 4																		
Bid / Construction	.50	5			.50									.										
County Prepare Bid for Advertisement - Hempstead Wastewater Force Mair	7	0	25-Jun-15 A	30-Jun-15 A	100																			
Bid / Advertise - Hempstead Wastewater Force Main	29		03-Jul-15 A	14-Aug-15 A	100						++					····	÷				·			
Bid Opening - Hempstead Wastewater Force Main	29		18-Aug-15 A	14-Aug-15 A 18-Aug-15 A	100																			
Award / NTP - Hempstead Wastewater Force Main	90	0	19-Aug-15 A	25-Apr-16 A	100																			
	450	0			100																			
Construction - Hempstead Wastewater Force Main		U	25-Apr-16 A	01-May-19 A	100								1				í.							
S3P311-09M - Hempstead Wastewater Pumping Station & Force M							<u> </u>																	
CM Contract		e 1	47.0.1.1.1	44.55 44.4	100																			
RFP / Advertise CM Services - Hempstead Wastewater Pump Sta & FM	29			14-Nov-14 A	100																			
Award / NTP CM Services - Hempstead Wastewater Pump Sta & FM	90	0	15-Nov-14 A	01-Feb-16 A	100																			
S3P311-10G - Lawrence PS (STP) & Sage Lake PS						1 1 1	1 1 1 1							1 1 1	1 1 1						1 I I	1 1	1 1 1	1.1

Actual Level of Effort

Remaining Work



Bay F	ark Master Schedule 210930				Mas	ter Schedule	e Le	tter												As	of 30)-Sep)-21
Activity Nam	e	Orig Dur	Rem Dur	Start	Finish	% Comp 2013		2014	2015			2017	2018			2021	202		2023	2024			2026
	Old Operational					Q Q	QC						QQQ									QQ	QQQ
	CM Contract RFP / Advertise CM Services - Lawrence STP & Sage Lake PS	28	0	25-Jan-16 A	22-Feb-16 A	100								 									
	Award / NTP CM Services - Lawrence STP & Sage Lake PS	90	0		22-Mar-17 A	100																	
	Design Process	00		201001071		100		-															
	Preliminary Design - Lawrence STP & Sage Lake PS	75	0	02-Jun-14 A	12-Sep-14 A	100																	
	RFP / Advertise Final Design - Lawrence STP & Sage Lake PS	29	0		10-Oct-14 A	100																	
	Award / NTP Final Design - Lawrence STP & Sage Lake PS	61	0		15-Sep-15 A	100								 		÷							
	Final Design - Lawrence STP & Sage Lake PS	180	0		08-Mar-16 A	100																	
	Bid / Construction									-													
	County Prepare Bid for Advertisement - Lawrence STP & Sage Lake PS	7	0	09-Apr-16 A	14-Apr-16 A	100				1													
	Bid / Advertise - La wience STP & Sage Lake PS	29	0	15-Apr-16 A	13-May-16 A	100																	
	Bid Opening - Lawrence STP & Sage Lake PS	1	0	17-May-16 A	17-May-16 A	100	1			1				 								11	
	Award / NTP - Lawience STP & Sage Lake PS	90	0	18-May-16 A	22-Mar-17 A	100																	
	Construction - Lawrence STP & Sage Lake PS	550	0	22-Mar-17 A	13-Aug-18 A	100					- i i i i i												
	S3P311-11G - Roslyn Village, Morgan Park & Shore Road										1				:								
	CM Contract													-									
	RFP / Advertise CM Services - Roslyn Village, Morgan Park & Shore Rd	47	0	05-Oct-18 A	02-Nov-18 A	100		++								÷			-+			11	+
	Award / NTP CM Services - Roslyn Village, Morgan Park & Shore Rd	180	0	03-Nov-18 A	01-Dec-20 A	100									<u> </u>								
	Design Process											-											
	Preliminary Design - Roslyn Village, Morgan Park & Shore Rd	75	0	01-Mar-16 A	16-Jun-16 A	100																	
	RFP / Advertise Final Design - Roslyn Village, Morgan Park & Shore Rd	29	0	17-Jun-16 A	15-Jul-16 A	100																	
	Award / NTP Final Design - Roslyn Village, Morgan Park & Shore Rd	60	0	16-Jul-16 A	02-Feb-17 A	100																1	
	Final Design - Roslyn Village, Morgan Park & Shore Rd	154	0	02-Feb-17 A	02-Aug-17 A	100						-											
	Bid / Construction											-			1								
	County Prepare Bid for Advertisement - Roslyn Village, Morgan Park & Shore	7	0	13-Oct-17 A	09-Nov-17 A	100																	
	Bid / Advertise - Roslyn Village, Morgan Park & Shore Rd	29	0	10-Nov-17 A	08-Dec-17 A	100																	
	Bid Opening - Roslyn Village, Morgan Park & Shore Rd	1	0		12-Dec-17 A	100																	
	Award / NTP - Roslyn Village, Morgan Park & Shore Rd	90	0	13-Dec-17 A	01-Dec-20 A	100									-								
	Construction - Roslyn Village, Morgan Park & Shore Rd	365	217	01-Dec-20 A	05-May-22*	41									-								
	S80019-03GR - Cedar Point Lake (Doxey Brook) Pump Station																						
	CM Contract													 									
	RFP / Advertise CM Services - Cedar Point Lake PS	29	0		23-Dec-16 A	100																	
	Award / NTP CM Services - Cedar Point Lake PS	90	0	24-Dec-16 A	03-Jan-18 A	100																	
	Design Process			1	1																		
	Final Design - Cedar Point Lake PS	180	0	10-Feb-16 A	28-Oct-16 A	100																	
	Bid / Construction													 		÷							
	County Prepare Bid for Advertisement - Cedar Point Lake PS	7	0		01-Dec-16 A	100					•												
	Bid / Advertise - Cedar Point Lake PS	29	0		06-Jan-17 A	100					•												
	Bid Opening - Cedar Point Lake PS	1	0		10-Jan-17 A	100																	
	Award / NTP - Cedar Point Lake PS	90	0		03-Jan-18 A	100						1 1											
	Construction - Cedar Point Lake PS	540	0	03-Jan-18 A	20-Dec-19 A	100								 									
	trogen Reduction Projects																						
	S35123-L38G - Sidestream Deammonification														1								
	CM Contract													-									
	RFP / Advertise CM Services - Sidestream Centrate Treatment	29	0	28-Jul-17 A	25-Aug-17 A	100																	
	Award / NTP CM Services - Sidestream Centrate Treatment	90	0	26-Aug-17 A	16-Dec-19 A	100								 									
	RFP Process							•		1 1 1	-												
	Develop / Issue RFI - Sidestream Centrate Treatment	60	0		26-May-15 A	100																	
	RFI Response Period - Sidestream Centrate Treatment	41	0	-	07-Aug-15 A	100																	
	RFI Evaluation Period - Sidestream Centrate Treatment	88	0	-	29-Feb-16 A	100																	
	NCDPW Review & Award Sidestream Centrate Treatment	120	0	01-Mar-16 A	26-Sep-16 A	100								 		ļ.ļ.							
	Design Process			07.0 10.1	00.11 12.1																		
	Complete Technical Design Report	60	0		26-Nov-16 A	100																	
	Detailed Design - Sidestream Centrate Treatment	275	0	27-Sep-16 A	31-Oct-17 A	100						: :											
	Bid / Construction	!		01 NL 17	10.11 17 1																		
	County Prepare Bid for Advertise ment - Sides tream Centrate Treatment	17	0		16-Nov-17 A	100	ļ	·	+			<u>-</u>		 		÷				<u> </u>			
	Bid / Advertise - Sidestream Centrate Treatment	29	0		05-Jan-18 A	100																	
	Bid Opening - Sidestream Centrate Treatment	1	0		09-Jan-18 A	100																	
	Award / NTP - Side stream Centrate Treatment - Canceled - Re-bid	90	0	10-Jan-18 A	23-Aug-18 A	100	:	<u>. i i</u>							i	1		i					

Remaining Level of EffortActual Level of Effort

Actual Work
Remaining Work

Page 9 of 10

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-	Park Master Schedule 210930			. <u> </u>		er Sche		_															of 30-	
ly Nam	le	Orig Dur	Rem Dur	Start	Finish	% Comp		20		2015	2016	201		2018	2019	2020		021	2022		2023	2024	202	
_	Re-Bid / Ad vertise - Sidestream Centrate Treatment	29	0	24-Aug-18 A	21-Sep-18 A	100			QQ	uuuc			u u u		alala			, u u		QQ	uuq	QQQ		
	Re-Bid Opening - Sidestream Centrate Treatment	1			25-Sep-18 A	100	- i i -																	1
	Award / NTP - Side stream Centrate Treatment	180			31-Dec-19 A	100	de de cier										+							
	Construction - Sidestream Centrate Treatment	730			24-Mar-22*	76	- i i -																	
	S35123-L39G - Level 1 BNR Improvements																							
	CM Contract										-		,											
/ F	RFP / Advertise CM Services - Level 1 BNR Improvements	31	0	29-Jul-16 A	26-Aug-16 A	100																		
	Award / NTP CM Services - Level 1 BNR Improvements	90			05-Jul-17 A	100											+							
	Design Process			217 kig 1071	oo dal 1171	100																		
/ I r	Design - Level 1 BNR Improvements	120	0	30-Nov-15 A	23-Sep-16 A	100																		
	Bid / Construction										-							÷.						
	County Prepare Bid for Advertisement - Level 1 BNR Improvements	7	0	24-Sep-16 A	29-Sep-16 A	100																		
	Bid / Advertise - Level 1 BNR Improvements	29	0	30-Sep-16 A	11-Nov-16 A	100																		
	Bid Opening - Level 1 BNR Improvements	1	0		15-Nov-16 A	100																		
	Award / NTP - Level 1 BNR Improvements	90	0	16-Nov-16 A	05-Jul-17 A	100																		
	Construction - Level 1 BNR Improvements (Substantial Completion)	913	0		30-Apr-20 A	100																		
	Construction - Cyberprop Change Order	365	29		29-Oct-21*	92	111																	
	ong Beach WPCP Consolidation			in the second second second second second second second second second second second second second second second																			i	
	S35109-01GR - Long Beach Pump Station														_								,	
	<u> </u>																							
	Design Process Pump Station Final Design - Long Beach Pump Station (PMJV)	186		06-May-19 A	21-Jul-20 A	100																		
		100	0	UO-IVIAIY-19 A	21-JUF20 A	100																		
	Bid / Construction County Prepare Bid for Advertisement - Long Beach Pump Station	7	0	22-Jul-20 A	30-Jul-20 A	100																		
		29				100																		
	Bid / Advertise - Long Beach Pump Station Bid Opening - Long Beach Pump Station	29			23-Oct-20 A	100	- i i -																	
	Award / NTP - Long Beach Pump Station - Canceled	205	-		27-Oct-20 A	100	4 3 3																	
	Redesign - Long Beach Pump Station	205			20-Apr-21 A 14-Oct-21	100																		
	County Prepare Bid for Advertisement - Long Beach Pump Station	7			28-Oct-21	0	+											·						
	Bid / Advertise - Long Beach Pump Station	29		-	26-Nov-21	0																		
	Bid Opening - Long Beach Pump Station	29			30-Nov-21	0																		
	Award / NTP - Long Beach Pump Station	182			31-May-22	0																		
	Construction - Long Beach Pump Station	884			30-Oct-24*	0												1						
•	S35109-01S - Long Beach HDD Force Main	004	004	31-Way-22	30-00-24	0												.						
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ľ	Design Process HDD Final Design - Long Beach HDD Force Main (PMJV)	186	32	06-May-19 A	01-Nov-21	83											: :							
	Bid / Construction	100	32	00-Iviay-19 A	01-1100-21	03																		
	County Prepare Bid for Advertisement - Long Beach HDD Force Main	8	8	02-Nov-21	09-Nov-21	0												Ĭ						
	Bid / Advertise - Long Beach HDD Force Main	29			10-Dec-21	0											+	÷						
	Bid Opening - Long Beach HDD Force Main	1			14-Dec-21	0																		i.
	Award / NTP - Long Beach HDD Force Main	182			14-Jun-22	0																		
	Construction - Long Beach HDD Force Main	828			18-Sep-24*	0														: :	1 1			
-	S35109-01M - Long Beach Consolidation CM Contract	020	020			Ű										-								
	RFP / Advertise CM Services - Long Beach Consolidation	29	0	12-Jun-20 A	10-Jul-20 A	100				·							÷	·				┝╍┾╍┾╸┿		
-	Award / NTP CM Services - Long Beach Consolidation	180			01-Mar-22	100												1						
5	S35109-02G - Austin Boulevard Force Main	100	102	110012077	OT MATEE	10																		
														•										
	Design Process Prepare RFP - Austin Boulevard Force Main Design	7	0	05-Feb-16 A	10-Feb-16 A	100																		
	Issue RFP for On-Call Final Design - Austin Boulevard Force Main	15			26-Feb-16 A	100	de de side a				-													
	Award / NTP Final Design - Austin Boulevard Fore Main Design	15			01-Jun-16 A	100																		
	Design - Austin Boulevard Force Main	310			07-Sep-18 A	100	- i i -																	
	Bid / Construction	310	0	01-Juli-10 A	07-06p-10 A	100																		
	County Prepare Bid for Advertisement - Austin Boulevard Force Main	7	0	08-Sep-18 A	13-Sep-18 A	100																		
	Bid / Advertise - Austin Boulevard Force Main	29			09-Nov-18 A	100											·							
	Bid Opening - Austin Boulevard Force Main	29			13-Nov-18 A	100	4 1 1																	
		the second second second second second second second second second second second second second second second se		10-140V-10 A	13-140V-10 A	100								1									╧	4
	ilestones																							
	Program Management Award	0		-		100	•																	
	Program Management Complete	0	0		08-Sep-26	0											: I i		1 1 1	: 1 3				

Remaining Level of EffortActual Level of Effort

Actual Work
Remaining Work



Project Glossary

Agreement Project Name	County Project Name	County Project Number
Barnes Avenue – Baldwin	Village of Hempstead Wastewater Pump Station	S3P311-09G
	Village of Hempstead Force Main	S3P311-09S
Raw sewage pumping facility	Raw Sewage Pumping Facility Improve- ments	S35121-03G
Sludge dewatering facilities	Sludge Dewatering Facilities Improvements	S35121-09G
Effluent Screening and disinfec- tion	Effluent Screening and Disinfection Facility Improvements	\$35121-11G
Effluent tide pumping facilities	Effluent Pumping Facility Improvements	S35121-12G
Electrical Distribution Phase E1- E3	Phase E3 Main Substation and Electrical Distribution	\$35121-14F
Secondary Flood Protection	Secondary Flood Protection and Hardening of Critical Facilities	\$35121-16G
Stormwater Pump Stations	Flood Protection Phase I – Stormwater Pumping Stations	\$35121-18G
Upgrade to 3 Generator Opera- tion	Engine Generator Facility Auxiliary Im- provements	S35121-16A
Hot water piping system	Permanent HW/CW Piping System	S35121-16P
Cedar Dr, Roosevelt et al PS	Cedar Drive, Roosevelt, Whitewood, Bilt- more and Alhambra Pump Station Repairs	S3P311-02G
Wantagh, Newbridge et al PS	Wantagh, Newbridge Road, Merrick Road and Ray Street Pump Station Repairs	S3P311-03G
Ocean Ave, Mill Rd et al PS	Ocean Avenue, Mill Road, Woodmere Boulevard and Longacre Pump Station Re- pairs	S3P311-06G
Inwood, Doughty et al PS	Inwood, Bayview Avenue and Doughty Boulevard Pump Station Repairs	S3P311-07G
Lawrence & Sage Lake PS	Sage Lake and Lawrence Pump Stations Mitigation and Repair	S3P311-10G
East Avenue Ejector Station	East Avenue Pump Station Repairs	S3P311-08G
Level 1 BNR	Level 1 BNR Improvements	S35123-L39G
Sidestream Deammonification	Sidestream Centrate Treatment	S35123-L38G

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Vincent Falkowski, PE, PMP, CCM	Deputy Commissioner
Permittee (Per CRF 122.22)	Title
Vincent fallsound.	10/26/2021
Signature	Date Signed