July 27, 2023

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

Agreement DEC Index No: CO 1-20170626-244

South Shore Water Reclamation Facility 2023 Q2 Quarterly Report

Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of April 1, 2023, through June 30, 2023.

Very truly yours,

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

c: NCDPW

Kenneth Arnold Jane Houdek Chris Vella Hazen and Sawyer Mark Hanson Paul Saurer Eric Mills Tom Zakrzewski **ARCADIS** Peter Glus Greg Bazydola Maryanne Dioquino

Paul Harding Brian Lee Josh Lin Ryan Waldron Andrew Fera Andrew Fleck Jennifer Pilewski Mandy Yau Dena Putnick

DEC

## DEC Agreement Q2 2023 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 April 1, 2023, through June 30, 2023.

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 April 1, 2023, through June 30, 2023 ("Reporting Quarter").

# **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 first Agreement Modification.

A second Agreement Modification is currently in preparation that will revise the Conveyance Project milestones noted in Table 1 as well as revise the Wet Weather/Flow Reduction milestones that were added to the Agreement via Appendix F previously.

The second Modification will also add a new project to Appendix A, the Hempstead Bay-Hassocks Restoration Project.

The modifications were agreed to and sent to the County for execution on December 27<sup>th</sup>, 2022. The modification was fully executed in Q1 2023.

Milestone	Agreement Date	Mod request date	Revised date requested	DEC Response Date	Modified Milestone Date <sup>1</sup>
General Covid-19 FM	N/A	3/19/2020 <sup>2</sup>	N/A	6/24/2021	N/A
Bay Park Microtunnel Shafts Complete	5/1/2022	4/1/2022	1/3/2023	12/27/2022	9/1/2023
Bay Park Microtunnel Design Complete	5/1/2022	4/1/2022	7/1/2022	12/27/2022	7/1/2022
Cedar Creek Microtunnel Shafts Complete	6/1/2022	4/1/2022	3/9/2023	12/27/2022	9/1/2023
WW/Flow Reduction	Various	N/A	Various	12/27/2022	Various
Hassocks Restoration	TBD	N/A	N/A	12/27/2022	Various
RSP Supply Chain Delays		9/13/2022	N/A		

Table 1 – Modification Requests and Force Majeure Notifications

<sup>1.</sup> Bold denotes current date, italic superseded

<sup>2.</sup> 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	Table 2 – D	Design	Comple	etion	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.

# **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/ <i>Forecast</i>			
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						
Milestone	Agreement Date	Actual/ <i>Forecast</i>	% Complete			
1 Barnes Avenue – Baldwin	12/31/2019	10/4/2019 A	100%			
2 Raw Sewage Pumping Facility	2/15/2024	7/11/2024	70%			
3 Sludge Dewatering Facilities	12/15/2018	5/21/2018 A	100%			
4 Effluent Screening and Disinfection	8/22/2023	10/31/2023	87%			
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	1/28/2022 A	100%			
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	10/17/2022 A	100%			
16 Level 1 BNR	5/5/2020	4/30/2020 A	100%			
17 Sidestream Deammonification	10/3/2022	9/20/2022 A	100%			

#### Table 4 – Construction Completion Milestones

\* 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:

- Continued installation of rigid conduit and wiring for power, controls, and lighting.
- Continued removal of abandoned conduit in existing MCC and Pump Room.
- Demolish existing RSP No. 5 rheostat pad and infill conduit penetrations.
- Finished installation of gate valve extensions for RSP-3.
- Continued wiring and terminations of equipment inside new electrical room.
- A&F continued electrical testing of equipment.
- Continued work related to main power feeders.
- Continued work related to interim transformer power.
- Finished rotation of discharge elbow for RSP No. 5.
- Layout, formed, and installed RSP No. 5 concrete pedestals.
- Continued layout and installation of vacuum priming system piping in pump room.
- Continued installation of SS piping, valves, and supports for process equipment and instrumentation.
- Continued miscellaneous metals corrective work list for catwalk and stair tower.
- Continued roofing membrane corrective work list.
- Installed concrete ATS pad and cabinet.
- Delivered MCC to jobsite.
- Continue installation of radar level system conduit from scavenger waste to new electrical room.
- Started mounting new local control stations, control panels, and disconnects inside pump room.
- Started installation of junction boxes and pump room conduit rack system.
- Continued submission of RFI's, MOPOs, submittals, and shop drawings subcontractors/vendors for approval.

### Expected Progress Next Quarter:

- Finish relocation of fire standpipe in existing staircase (P-019).
- Continue miscellaneous metal incomplete items list for stair tower and catwalk.
- Finish installation of 30" valve extensions in pump room for RSP Nos. 1 and 2.
- Start installation of 40" valve extensions in pump room.
- Finish installation of electrical work for the main power feeders, B-side (CO-01).
- Finish installation of interim transformer (CO-07).
- Continue installation of pump room conduit rack, pull-boxes, and wiring.
- Continue MOPO for the switch over of 4160V power (B-side).
- Start MOPO for A-Side electrical feeders.
- Continue installation of MCC and interconnections of equipment.

- Continue mounting new local control stations, control panels, and disconnects inside pump room.
- Continue installation of radar level system conduit from scavenger waste to new electrical room.
- Continue demolition of RSP No. 5 components and existing platform.
- Finish removal and rewiring of air compressor control panel.
- Continue installation of SS piping, valves, and supports for process equipment and instrumentation.
- Install new potable water piping and RPZ in pump room basement.
- Deliver and install in place new dry pit submersible vertical pump No. 5.
- Continue submission of RFI's, Submittals, MOPOs, Shop Drawings and Subcontractor/Vendor approvals.

Note: Current schedule for Raw Sewage Pumps has remained behind schedule due to equipment delivery delays related to COVID and supply chain issues. It is anticipated that the current Consent Agreement completion milestone will not be met as a result. A letter to this effect was issued to DEC June 6, 2022.

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

This project has been completed and milestone certification accepted.

### 4. Effluent Screening and Disinfection

Progress This Quarter:

- Installed Isolation Butterfly Valve No. 1 and Valve Actuator.
- Installed H&V Three-Way Mixing Valve.
- Continued fabrication of remaining Isolation Butterfly Valves.
- Continued preparation and submission of administrative and technical submittals.

### Expected Progress Next Quarter

- Install pressure gauges and temperature measuring instrumentation for the HVAC system.
- Startup and test H&V Unit.
- Program existing Chemical System Control Panel.
- Receive delivery and start installation of Isolation Butterfly Valve No. 2.
- Electrically connect and test flowmeter.
- Continue preparation and submission of administrative and technical submittals.

Note: Current schedule for Effluent Screening is behind schedule due to equipment delivery delays. DEC was notified at the last quarterly meeting. All screens are installed and operating but the delays are exclusively related to the isolation valves. Substantial completion is currently projected 13 days beyond the Consent Agreement date and efforts are being made to make up schedule.

### **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

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

#### **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 working on as-built drawings.
- Removed Engineer's trailer.
- Addressed peeling paint.
- Substantial completion granted 10/17/2022 and milestone certification was submitted to DEC in Q4 2023, which was then accepted 2/6/2023.

#### Expected Progress Next Quarter:

- Complete as-built drawings.
- Complete demobilization from the site.

#### 16. Level 1 BNR

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

#### **<u>17. Sidestream Deammonification</u>**

Progress This Quarter:

- Construction Complete Milestone Certification accepted on November 22, 2022.
- Continued operation of the Sidestream system.
- Continued submission of O&Ms, As-builts, Closeout submittals, and technical submittals.

Expected Progress Next Quarter:

- Continue submission of O&Ms, As-builts, Closeout submittals, and technical submittals.
- Continue general punch list items.
- Execute Change order Installation of Submersible Centrate Pumps.

## v.o 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.

The County and the City of Long Beach have executed the first Contract Administration Memorandum (CAM) that details the roles and responsibilities of the two parties with respect to project funding and financing. A second CAM has been executed summarizing the transactional details of payments. A third CAM was executed that constitutes an agreement by which the County will accept sludge residuals from the City due to the City's digester system becoming disabled.

# Nitrogen Schedule of Compliance

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

Table 5 – Day I alk WI CI Thurbgen Milestones					
Description of Work	Agreement Date	Projected/Actual*			
Submit an approvable BNR Operation and	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 Sidestream O&M Plan	6/1/2022	6/1/2022			
Begin operation of the 6-month start-up period for updated 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	9/1/2023			
End 12-month performance period for updated BNR and Sidestream O&M plan.	4/31/2024	8/31/2024			
Submit performance data and approvable Final BNR and Sidestream O&M Plan.	8/1/2024	12/1/2024			

 Table 5 – Bay Park WPCP Nitrogen Milestones

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

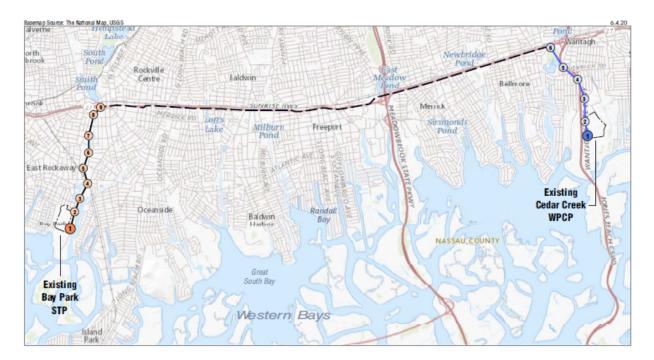
Performance data demonstrates continued compliance with the revised nitrogen limit that went into effect July 1, 2022.

Operational issues upstream of the Sidestream Facility have delayed the implementation of the performance period. A change order will be executed in Q3 of 2023 to alleviate the issues and allow for the performance period to begin. Details will be transmitted via letter from the County to DEC per DEC's request.

# 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 (now known as the South Shore WRF) 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	<i>Projected /</i> 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 milestones in a Baseline Schedule for Design-Build Project Completion, including Mechanical Completion, Substantial Completion, and Final Acceptance	3/26/2021	4/6/2021	4/6/2021	4/13/2021
Repair of the Cedar Creek Outfall Diffuser	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		

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 7 – Conveyance Project Milestones							
Description of Work	No.	Agreement Date	<i>Projected /</i> 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	9/1/2023	9/1/2023				
BPM Design Complete	2.4	7/1/2022	6/28/2022	6/28/2022	6/29/2022		
BPM Construction End	2.5	12/30/2023	12/30/2023				
CCM Construction Start	3.1	12/1/2022	12/1/2022	11/8/2022	11/19/2022		
CCM Design Start	3.2	7/1/2021	6/29/2021	6/29/2021	7/2/2021		
CCM Shafts Complete	3.3	9/1/2023	9/1/2023				
CCM Design Complete	3.4	9/1/2022	6/28/2022	6/28/2022	6/29/2022		
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	10/11/2022	10/12/2022		
BPEPS Construction End	4.4	12/30/2023	12/30/2023				
SHA Rehabilitation Construction 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	10/11/2022	10/12/2022		
SHA Rehabilitation Construction End	5.4	12/30/2023	12/30/2023				
CCEPS/RS Construction Start	6.1	8/1/2022	5/25/2022	5/25/2022	6/1/2022		
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	11/19/2021	12/3/2021		
CCEPS/RS Design Completion	6.4	10/1/2022	10/1/2022	10/11/2022	10/12/2022		
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 **Bold notes modified milestones per December 5, 2022 DEC Letter.** 

#### **Progress This Quarter:**

During 2023 Quarter No. 2, there was continued progress to advance the overall project objectives, which included review and approval of subsequent Design Changes (FDCs/NDCs) and design technical memorandums. DP-11A - Rehabilitation of the Cedar Creek Outfall Cleanout Chamber and Cap (Clean out chamber hatch) pre-RFCD package is still under EOR development.

The Project's administrative goals in the form of reporting, meetings, document control, schedule reviews, quality assurance, and oversight activities continued. Construction activities such as shaft excavation, backfill, CLSM pour, final build out, SWPPP implementation, and other civil works were completed in accordance with RFCD packages. Summarized below are particulars on design, submittals, and construction progress by reach/location during the period.

Bay Park Effluent Diversion Pump Station:

- Design changes to Erosion and Sedimentation Control drawings for this area were submitted for review. Design Change NDC-026.00 DP-06 Sheet Waterproofing was reviewed and approved.
- Reviewed and processed numerous works plans and construction submittals, including but not limited to, the pumps and their testing procedures, wet well waterproofing leaks, and air conditioning units.
- Continued cap beam stem wall installation and started installation of masonry wall. Installation of electrical conduits and supports also continued. Installation of bypass discharge pipe and supports continued at the Diversion Structure, and all UCD No. 6 -Bay Park Effluent Conduit Bypass work was completed. Started work related to UCD No. 11 – Bay Park Effluent Conduit Repair.

**Bay Park Microtunnel:** 

- Design changes to Erosion and Sedimentation Control drawings for this area were submitted for review.
- Reviewed and processed numerous work plans and construction submittals, including the BP5 to BP7 revised IJS layout and the baseline report for the micro tunnel drive from BP5 to BP7.
- Cleaning of micro tunnel from BP3 to BP1 for warranty inspection by Thompson Pipe. Sidewalk and curb restoration continued at BP2. Micro tunneling run BP5 to BP7 completed. Continuing excavation of BP8. Maintenance of construction barricades and erosion control at BP9.

Sunrise Highway Sliplining:

- Design changes to Erosion and Sedimentation Control drawings for this area were submitted for review.
- Reviewed and processed numerous work plans and construction submittals, including but not limited to, shop drawings related to the pipe from BP9 to Pit A and CC6 to Pit W.
- Excavation and installation of CARV vent pipe at Pit B. At Pit D, the steel blind flange was installed at the end of the FRP slip-line for the upcoming hydrostatic test from Pit A to Pit D. Pit excavation, SOE, and roadway planks installation at Pits F and FF. Slip-line

pipe installation activities completed from Pit D to Pit H; this completed all of the slipline pipe alignment under Sunrise Highway (annular grouting scheduled to be completed in July 2023).

• At Pit K, backfilled and regraded, compacted pit with RCA material up to the subgrade for the precast planks and reinstalled the planks. Started preparing for the final restoration of Pit K. At Pit Q, replaced previously installed vacuum breaker with steel valve at the top of access hatch cover. Repaired the Pit S valve cap from MH access, installed new valve, and replaced the two 2-inch pipes (water/air) leading to CARV manhole. At Pit W, continued with SOE sheeting installation and excavating the trench to CC 6. Steel pipe installation started from Pit W to CC6. The preliminary and final hydrostatic test was completed from Pit O to Pit W.

Cedar Creek Microtunnel:

- Received and performed detailed quality and compliance reviews for technical design submittal: DPP-022 Limited Geotechnical Investigation Cedar Creek Micro-Tunnel Drive 2-1 (NCR-0085). Design changes on Erosion and Sedimentation Control drawings for this area were submitted for review.
- Reviewed and processed numerous work plans and construction submittals, including piping drawings.
- Micro-tunneling pipe connection and manhole installation at CC2. Vibratory compaction was performed at the sinkhole between CC1 and CC2 to return the ground to the original condition. CPT testing was performed in this area, and the results are currently under review. CC2 shaft is in the process of being backfilled with CLSM. Setting up micro-tunneling equipment for CC4 to CC5 run. Finished contact grouting from CC5 to CC6.

Cedar Creek Effluent Pump Station/Receiving Station:

- Received and performed detailed quality and compliance reviews for technical design submittal: DPP-0021 Design Criteria Memorandum Rehabilitation of the Cedar Creek Outfall Clean-Out Chamber and Cap.
- Reviewed and processed numerous work plans and construction submittals, including but not limited to, the pumps and their testing procedures, receiving tank, wet tap installation, MOPO regarding the shutdown to install new vertical turbine Pump #3, and test report for VFD#3.
- At the Cedar Creek Pump Station, all work tied to UCD No. 5 Cedar Creek Electrical Room Demolition and Phase I and Phase II of UCD No. 8 - Cedar Creek Hazmat Abatement were completed. Cedar Creek Pump #3 was removed. At the Cedar Creek Receiving Station, the storage tank and foundation are being installed. Completed the installation of the helical piles. At Building L, the electrical conduits are being removed and replaced with the new conduit raceway and electrical control panels.

#### **Expected Progress Next Quarter:**

Bay Park Effluent Diversion Pump Station:

• Expecting an additional Design Package related to SCADA tie-in at the Bay Park Water Reclamation Facility (WRF). The following design changes are upcoming: permanent

pipe supports, revised steel lintel for CMU and additional monorail, and resubmission of NDC-0019 for cathodic protection at BP1.

• Continue the work of UCD No. 11. Complete the wet wall waterproofing repairs, form and pour baffle walls in wet well, continue installation of CMU at the pump station, finish setting the pump station floor slab, and install structural steel for pump station.

Bay Park Microtunnel:

- No more contractual design submissions for Bay Park micro-tunnel are anticipated.
- Finish sidewalk and curb restoration at BP2. Finish grouting the pipe from BP5 to BP7. Start micro-tunneling from BP5 to BP4. Finish the excavation of shafts BP8 and BP9.

Sunrise Highway Sliplining:

- Expecting revisions to Erosion and Sedimentation Control drawings for Pit W.
- Low-pressure hydrostatic test to be done from Pit A to Pit D. Complete annular grouting from Pit D to Pit GG. Complete the final restoration of Pit K, Pit C, and Pit M.

Cedar Creek Microtunnel:

- Expecting resubmission of DPP-022 Limited Geotechnical Investigation Cedar Creek Micro-Tunnel Drive 2-1 (NCR-0085).
- Finish backfilling CC2 shaft with CLSM. Start micro-tunneling from CC4 to CC5 and setup micro-tunneling equipment for CC4 to CC3 run.

Cedar Creek Effluent Pump Station/Receiving Station:

- Anticipate receipt of one (1) RFCD package for DP-11 CC Outfall Cleanout Chamber Preliminary Study. Also expecting an additional design package related to SCADA tie-in at the Cedar Creek Water Pollution Control Plant (WPCP).
- Removal of Sluice Gate 7. Complete the installation of the grade beams for the helical piles. Continue erecting the receiving station standpipe tank. At the existing effluent wet tap, chemical grouting will occur around the wet tap installation location, followed by the wet tap slide gate valve and wet tap saddle.

# 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 WPCP	1/27/2023
	b. Begin implementing the approved CMOM plans	Upon DEC Approval
2.	CMOM Program – Submit Operating Plan for Bay Park Conveyance System	3/1/2023
3.	Inflow and Infiltration (I/I) Study Work Plan a. Submit I/I study work plans for Bay Park STP and Cedar Creek WPCP b. Conduct I/I studies c. Submit Final Report on Findings	<ul> <li>a) 3/31/2023</li> <li>b) Upon DEC approval of the I/I Work Plan</li> <li>c) Within 12 months of work plan approval or per approved schedule</li> </ul>
T pri	Inflow and Infiltration (I/I) Reduction Plan he County shall use the results of the I/I Study to identify and foritize cost-effective I/I reduction projects using a data-driven st/benefit approach consistent with best industry practices.	Submit plan within six months of I/I Study Final Report Approval

### Table 8 – Wet Weather Flow Reduction Milestones

DEC has requested a schedule of the I/I reduction plan implementation to complete their review. The County is exploring funding options for these studies currently and will provide the schedule upon determination of funding.

# **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 plan resubmittal was approved by the DEC Region 1 permitting group on June 6, 2022 and the USACE application was submitted on July 11, 2022. Comments were received in Q1 2023 and the package was resubmitted in this reporting quarter.

# x.0 **Certification of Completed Activities**

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

Table 9 – Completed Activities					
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		
Secondary Flood Protection – CC	1/28/2022	2/2/2022	4/22/2022		
Sidestream Deammonification – NTP	12/31/19	12/31/19	12/31/19		
East Avenue PS NTP	10/29/2020	10/29/20	11/2/2020		
Effluent Screening and Disinfection NTP	10/29/2020	10/29/20	11/2/2020		
Level 1 BNR – CC	4/30/2020	5/5/20	10/30/2020		
Effluent Pumping Facility – CC	5/5/2020	6/10/20	10/30/2020		
Sidestream Deammonification – CC	11/22/2021	10/10/2022	11/22/2022		
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	11/8/2022		
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		
Complete performance period BNR	12/31/2021	1/20/2022	1/21/2022		
Submit Approvable Revised BNR O&M Plan	6/1/2022	6/1/2022	6/29/2022		

Milestone	Date	Certification	Certification
	Completed	Submitted	Accepted
Submit CMOM plans for South Shore and Cedar Creek	1/26/2023	1/26/2023	
Submit Operation Plan for Conveyance System	3/7/2023	3/7/2023	
Submit I/I Study Work Plans	3/30/2023	3/30/2023	

# **Community Relations**

From April through June 2023, the State, County, and Design Builder continued in their efforts to disseminate and field community concerns via various community engagement initiatives.

On June 16 from 6 - 7:30 pm, the State, County, and Design-Builder held a ninth quarterly general public information session (since the Project's Notice-to-Proceed) via Zoom to update communities on the Project's construction progress, reinforce its mission, and to answer any questions from participants. Discussion topics that affect the public included noise and vibration monitoring as well as construction schedules.

Meetings with local elected officials and first responders took place on April 25, May 30, and June 27, where government officials and fire marshals were briefed 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.

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

Item/ Description	Dates
Quarterly Public Information Session	• June 16
Monthly Meeting with First Responders and Elected Officials	<ul> <li>April 25</li> <li>May 30</li> <li>June 27</li> </ul>

#### 2023 Q2 Outreach Summary:

### XII.0 Attachments

1. Program Master Schedule

Bay Park Master Schedule 230630			ter Sched			2010	0047						- 000		30-Jur	
Activity Name Orig Dur Re	em Dur Start	Finish	% Comp 20 C		2014 2015 Q Q Q Q Q Q		2017 Q Q Q Q	2018 2019 QQQQQQQ	2020 2 Q Q Q Q	2021 2 Q Q Q Q		2023 2024 QQQQQQ				027 28 2 Q Q Q
Bay Park Master Schedule 230630																
Existing Capital Projects																
S3B119-05G - Generator Controls				-		•										
Design	0 01 0+10 1	00 4	400		7											
Design - Generator Controls 74 Procurement	0 21-Oct-13 A	22-Apr-14 A	100		<b>-</b>											
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	0	18-Nov-14 A	100		•											
Construction - Generator Controls 533	0 15-Nov-13 A	24-Jun-16 A	100													
S3B120-01G - Influent Screening Facility Improvements																
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 CM Contract																
RFP / Advertise CM Services - Grit Removal 30	0 07-Oct-13 A	25-Oct-13 A	100	1												
Award / NTP OM Services - Grit Removal 40	0 26-Oct-13 A	26-May-14 A	100	1	📥 i i   i i i											
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	<u> </u>	4											
Bid / Advertise - Grit Removal 56 Bid Opening - Grit Removal 1	0 24-Feb-14 A 0 25-Mar-14 A	21-Mar-14 A 25-Mar-14 A	100 100		•											
Award / NTP - Git Removal 63	0 26-Mar-14 A	20-Apr-15 A	100													
Construction - Grit Removal 821	0 20-Apr-15 A	18-Jul-17 A	100													
S35100-01G - Cleaning & Repair of Digesters & Storage Tanks				÷÷+	<del></del>											
Construction																
Construction - Digester Cleaning 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-13A	09-Sep-13 A	100		<b>*</b>											
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Award / NTP - Sludge 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	0 21-Aug-13 A	09-Sep-13 A	100		<b>*</b>											
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Construction - Odor Control BP & CC WPCPs 730	0 28-Oct-13 A	07-Nov-15 A	100	1 1	·											
Hurricane Sandy Projects																
FEMA Approval Process																
FEMA 404 Grants 60	0 12-Aug-13 A	31-Oct-13 A	100													
FEMA Finalize Damage Scope and Cost 45	0 12-Aug-13 A	19-Dec-13 A	100													
Submit 406 HMP 45 FEMA 406 HMP Negotiation 90	0 12-Aug-13 A 0 06-Jan-14 A	19-Dec-13 A 15-Jan-14 A	100 100	: .												
FEMA Scope and Cost Negotiation 90	0 20-Dec-13 A	15-Jan-14 A	100	11												
S35121-01G/E - Final Settling Tank Rehabilitation				-												
Construction Contract				-												
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Construction - Final Tank Rehabilitation 730	0 28-Oct-13 A	13-May-16 A	100													
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	S35121-03G - Raw Sewage Pumping Facility								-4	+								· •		• • • • • •	+	+++++++++++++++++++++++++++++++++++++++		+			++++
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	Design Process										7																
	Finalize Technical Memorandum - Influent Screens & RPS	45	0	21-Apr-14 A	30-Jun-14 A	100																					
	Preliminary Design - Raw Sewage Pumping Facility	88	0	01-Jul-14 A	23-Feb-15 A	100																					
	RFP / Advertise Final Design - Raw Sewage Pumping Facility	29	0	27-Feb-15 A	27-Mar-15 A	100																					
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	S35121-09G - Sludge Dewatering						•																				
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	RFP / Advertise CM Services - Dewatering Demo & Improvement	22	0	04-Apr-14 A	25-Apr-14 A	100																					
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	Preliminary Design - Dewatering	85	0	26-Sep-13 A	31-Dec-13 A	100																					
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	Alfa Laval Centrifuge Pilot	5	0	02-Jun-14 A	11-Jun-14 A	100																					
	GEA Westfalia Centrifuge Pilot	5	0	23-Jun-14 A	27-Jun-14 A	100		11																			
	Andritz Centrifuge Pilot	5	0	07-Jul-14 A	11-Jul-14 A	100		11																			
	Flottweg Centrifuge Pilot	5	0	14-Jul-14 A	18-Jul-14 A	100																					
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	S35121-11G - Effluent Screening & Disinfection																										
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	S35121-13E - Phase E1 Electrical Distribution Systems Improvemen	its																						
	CM Contract																							
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	Award / NTP - Phase E1 EDS	76	0		27-May-14 A	100																		
	Construction - Phase E1 EDS	670	0	27-May-14 A	19-Oct-16 A	100		<u> </u>	1::	: : : :	-													
	S35121-14E - Phase E2 Unit Substation No. 2 & Electrical Distribution	n										7												
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	Bid / Advertise - EDS Phase E2 - USS No. 2	29	0		10-Oct-14 A	100																		
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	Award / NTP - EDS Phase E2 - USS No. 2	90	0		11-May-15 A	100																		
	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		12-Feb-15 A	100																		
	Bid / Advertise - EDS Phase E3 - Main Substation	36	0		17-Apr-15 A	100																		
	Bid Opening - EDS Phase E3 - Main Substation	1	0		21-Apr-15 A	100																		
	Award / NTP - EDS Phase E3 - Main Substation	90	0	· ·	05-Oct-15 A	100			-															
	Construction - Phase E3 - Main Substation (Substantial Completion)	1095	0		01-Sep-20 A	100							1.1	1 1 1										
	Construction - Phase E3 - Change Order 118 Switchgear & Transformer	365	31	02-Sep-20 A	30-Jul-23*	92											; ; ;	;; ;	<b>•••</b>					
	S35121-14M - Phase E2 & E3 Construction Management																							
	CM Contract							-																
	RFP / Advertise CM Services - Electrical Phase E2 & E3	29	0	) 25-Jul-14 A	22-Aug-14 A	100																		
	Award / NTP OM Services - Electrical Phase E2 & E3	90	0	23-Aug-14 A	08-Jun-15 A	100																		

Actual Work
Remaining Work



	Park Master Schedule 230630					ter Sche																				un-23
Activity Na	ame	Orig Dur	Rem Dur	Start	Finish	% Comp		2014 Q Q Q Q Q		2016		2017 QQC	2018 2 0 0 0		019 2000	2020 2 0 0 0 0	2021		022 200	2023 QQQ	20 Q Q Q		2025 2000	2020		2027  Q Q Q
	S35123-L33E - Phase E4 Electrical Utility Connections											aaa														
	Design Process						-				: :				+ + +				: :							
	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																				
	Award / NTP Final Design - Phase E4 Electrical Utility Connections	120	0	09-Nov-18 A	22-Jan-20 A	100	11				1-1-1		1111		·			1-1-1-	111			t trit			111	
	Final Design - Phase E4 Electrical Utility Connections	180	0	22-Jan-20 A	16-Sep-20 A	100																				,
	PSE&G Coordination	5	103	12-Aug-13 A	10-Oct-23	0		1 1 1		1 1	: :		1 1		::	: : :		: :	: :	; ;						
	Bid / Construction			0												÷ 🗰					7					
	County Prepare Bid for Advertisement - Phase E4 Electrical Utility Connection	7	0	17-Sep-20 A	24-Sep-20 A	100										111										.
	Bid / Advertise - Phase E4 Electrical Utility Connections	29	0	25-Sep-20 A	23-Oct-20 A	100					1					· • • • • •										
	Bid Opening - Phase E4 Electrical Utility Connections	1	0	27-Oct-20 A	27-Oct-20 A	100										1 1 1										
	Award / NTP - Phase E4 Electrica I Utility Connections	180	0	28-Oct-20 A	14-Jun-21 A	100																				. ! !
	Construction - Phase E4 Electrical Utility Connections	540	103	15-Jun-21 A	10-Oct-23*	81											: 🛑									
	Energize & Commission PSEGLI Power	0	0		10-Oct-23*	0																				.
	PSEG-LI - Phase E4 Primary Power by PSEG-LI										1-1-1		1.1.1	1-1-1-						-		1111			111	
	Construction															+			+++	++						
	Construction - Phase E4 Primary Power by PSEG-LI	540	31	02-Oct-20 A	30-Jul-23*	94																				
	S35121-16A - Engine Facility Auxiliary Upgrades										+				֥											.
	Design Process										♦															
	Final Design - Engine Facility Auxiliary Upgrades	195	0	01-Nov-15 A	30-Sep-16 A	100							+			++	- <u> </u>							+	1-1-1	
	Bid / Construction										÷ + ÷				-											. : :
	County Prepare Bid for Advertisement - Engine Facility Auxiliary Upgrades	21	0	30-Sep-16 A	20-Oct-16 A	100																				
	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					51															
	Award / NTP - Engine Facility Auxiliary Upgrades	90	0	23-Nov-16 A	05-Jul-17 A	100																			1	
	Construction - Engine Facility Auxiliary Upgrades	365	0	05-Jul-17 A	30-Aug-19 A	100									<u> </u>											. ! !
	S35121-16G - Secondary Flood Protection & Hardening of Critical Fac	ilities			-			_   <del>↓    </del>			+ +				+ + +	++++										
	CM Contract																									.
	RFP / Advertise CM Services - Secondary Flood Protection	29	0	28-Jul-17 A	25-Aug-17 A	100																				. ! !
	Award / NTP QM Services - Secondary Flood Protection	90	0		02-Dec-19 A	100				· +	1-1-1				· · · · · · · ·	- † † †			++++						1111	
	Design Process			5								-														.
	Preliminary Design - Secondary Flood Protection	90	0	01-Dec-14 A	29-Oct-15 A	100																				
	Finalize Technical Memorandum - Secondary Flood 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																				.
	Award / NTP Final Design - Secondary Flood Protection	90	0	05-Dec-15 A	08-Nov-16 A	100				· -  <del> </del>						-+									1	
	Final Design - Secondary Flood Protection	210	0	09-Nov-16 A	07-Jul-17 A	100																				
	Bid / Construction											÷.				<del></del>										.
	County Prepare Bid for Advertisement - Secondary Flood 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																				
	Bid Opening - Secondary Flood Protection	1	0	05-Dec-17 A	05-Dec-17 A	100	TT È			T	111		111	111			1111	TTT.	T			r î t	T Í T		711	
	Award / NTP - Secondary Rood Protection	90	0	06-Dec-17 A	18-Dec-19 A	100							+++	+ + +	÷÷-											.
	Construction - Secondary Flood Protection	730	0	18-Dec-19 A	28-Jan-22 A	100									÷ † 🖡			<b>-</b>								. : :
	S35121-16P - Heating Hot Water Piping Permanent System																						•			
	CM Contract																		+ + +	<b></b>						. : :
	RFP / Advertise CM Services - Heating Hot Water Piping Permanent System	29	0	24-Sep-21 A	22-Oct-21 A	100																				
	Award / NTP CM Services - Heating Hot Water Piping Permanent System	180	32	23-Oct-21 A	31-Jul-23	82																				
	Design Process																	-								.
	Preliminary Design - Heating Hot Water Piping Permanent System	90	0	02-Nov-15 A	09-Sep-16 A	100					<b>i</b>															. ! !
	RFP / Advertise - Final Design - Heating Hot Water Piping Permanent System	29	0	19-Oct-18 A	16-Nov-18 A	100																				
	Award / NTP Final Design - Heating Hot Water Piping Permanent System	159	0	16-Nov-18 A	16-Sep-20 A	100																				. 11
	Final Design - Heating Hot Water Piping Permanent System	196	0	16-Sep-20 A	13-Jan-22 A	100										<b>-</b>		<b>=</b>								. : :
	Bid / Construction																						-			
	County Prepare Bid for Advertisement - Heating Hot Water Piping Permanent	7	0	14-Jan-22 A	03-Feb-22 A	100																				. 1 1
	Bid / Advertise - Heating Hot Water Piping Permanent System	29	0	04-Feb-22 A	25-Mar-22 A	100																				
	Bid Opening - Heating Hot Water Piping Permanent System	1	0	29-Mar-22 A	29-Mar-22 A	100																T				
	Award / NTP - Heating Hot Water Piping Permanent System	180	7	30-Mar-22 A	06-Jul-23	96													; ; ]	-						.
	Construction - Heating Hot Water Piping Permanent System	730	730	06-Jul-23	04-Jul-25*	0																· · ·				
																										.

Remaining Level of Effort

Actual Level of Effort

Actual Work
Remaining Work



ark Master Schedule 230630	Orig Dur	Rem Dur	Start	Finish	ter Scheo		014	2015	2016	2017	2018	2019		020	2021	2022	2023	3 -	2024	202		of 30- 2026	
3	Ong Dui	Refit Dui	Start	FILISI						2017													
335121-16TR - Vehicle Fueling & Tanks Reconstruction				1		· · · ·					•								++++				T
Design Process																							
Design - Vehicle Fueling	53	0	10-Mar-14 A	02-May-14 A	100	<b>-</b> -																	
Bid / Construction											•												
County Prepare Bid for Advertisement - Vehicle Fueling	7	0	-	08-May-14 A	100																		
Bid / Advertise - Vehicle Fueling	29	0	,	06-Jun-14 A	100																		
Bid Opening - Vehicle Fueling	1	0	10-Jun-14 A	10-Jun-14 A	100																	1.1.1.	
Re-Bid / Advertise - Vehicle Fueling	29	0	27-Mar-15 A	24-Apr-15 A	100																		
Bid Opening - Vehicle 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 - Vehicle Fueling	274	0	13-Jun-16 A	30-Jan-18 A	100						•												
35121-16V - Dechlorination Vault Storm Mitigation								***															
Design Process														ΠT					111				
Design - Dechlor Sample Vault Hardening	180	0	27-Mar-15 A	22-Oct-15 A	100			i i i i i i i i i i i i i i i i i i i															
Bid / Construction								-															
County Prepare Bid for Advertisement - Dechlor Sample Vault Hardening	7	0	23-Oct-15 A	29-Oct-15 A	100			111															
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		TT T	· · · · · · ·					7-1-1-	7777		[-1-1-1-				111			-1-
Award / NTP - Dechlor Sample Vault Hardening	90	0	12-Dec-15 A	11-May-16 A	100				<b>   </b>														
Construction - Dechlor Sample Vault Hardening	270	0	11-May-16 A	11-Aug-17 A	100																		
35121-17G - Perimeter Flood Protection						-	+++	+ + +															
CM Contract							¥																
RFP / Advertise CM Services - Perimeter Flood Protection	30	0	10-Jan-14 A	07-Feb-14 A	100		÷	+++++++++++++++++++++++++++++++++++++++					+-+-+-	++++			· [ · · ] · ·			++++			
Award / NTP QM Services - Perimeter Flood Protection	90	0		30-Jun-14 A	100	1 I 🖬																	
Design Process		-				-																	
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		<u>+-+-</u> +-	+++++					+	++++									
Finalize Technical Memorandum - Perimeter Flood Protection	45	0	12-Aug-13 A	17-Dec-13 A	100																		
Public Review/Comment Period	30	0		16-Jan-14 A	100																		
	30	0	17-Dec-13 A	10-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																		
Bid / Advertise - Perimeter Flood Protection	29	0		14-Mar-14 A	100									+-+-+-					+				
Bid Opening - Perimeter Flood Protection	29	0		18-Mar-14 A	100																		
Award / NTP - Perimeter Flood Protection	76	0			100																		
Eastern Park Open	76	0	19-Mai-14 A	27-May-14 A 07-Oct-15 A	100																		
Construction - Perimeter Flood Protection	740	0	27-May-14 A	07-00-15A 09-Jun-17A	100			<u>      T</u>															
		0	27-101ay-14 A	09-Juli-17 A	100									+-+-+-	+-+				+				
35121-18G - Flood Protection Phase 1 Stormwater Pumping Stations																							
CM Contract	00	0	04 1445 4	00 4:00 45 4	400																		
RFP / Advertise CM Services - Flood Protection Phase 1 Stormwater PS Award / NTP CM Services - Flood Protection Phase 1 Stormwater PS	29	0		28-Aug-15 A	100																		
	90	0	29-Aug-15 A	17-Jun-16 A	100			<u>;;</u>															
Design Process	07		40 D- 10 1	47.4. 114	100		÷						÷			<u> </u>						<i></i> }-}-	
Preliminary Design Flood Protection Phase 1 Stormwater PS	97	0		17-Apr-14 A	100																		
RFP / Advertise Final Design Flood Protection Phase 1 Stormwater PS	29	0	•	16-May-14 A	100																		
Award / NTP Final Design Rood Protection Phase 1 Stormwater PS	90	0	,	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							<b>↓ .   .  </b> .							4.4.4									
County Prepare Bid for Advertisement - Flood Protection Phase 1 Stormwater	7	0	0	03-Sep-15 A	100																		
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			<b>-</b> -															
Construction - Flood Protection Phase 1 Stormwater PS	760	0	31-May-16 A	24-Jun-19 A	100						dente i i												
35121-18S - Flood Protection Phase 2 Stormwater Green Infrastructu	ure																						1
Design Process																							
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 GI	29	0		24-Jun-16 A	100																		
335123-L37 - Miscellaneous Storm Repairs, Mitigation & Site Restorat												-	++-	+++	+++			┿┿╸	÷÷÷	┿┿┿	━┿┿┳	+++	+
CM Contract							·	· <del> </del> · · · <del> </del> · · · · · · · · · · · · · · · · · · ·	+		+-+-+		<u>+</u> -+-+-	+-+-+	+++++++++++++++++++++++++++++++++++++++	┝╍┿╍┿╍	· <del> </del> · · <del> </del> · · <b> </b> ·		+	╞╧╧┥	;+-+-		
RFP / Advertise CM Services - Misc Storm Repairs, Mitigation & Restoration	31	31	03-Dec-24	02-Jan-25	0																		

Remaining Work 



ay Park Master Schedule 230630					er Sche																		f 30-Ju	
ty Name	Orig Dur	Rem Dur	Start	Finish	% Comp		2014	2015	_		2017 0 0 0	2018 2010	2019 Q Q Q Q			2021 0000	2022	_	023 21010	2024	202			2027
Award / NTP CM Services - Misc Storm Repairs, Mitigation & Restoration	180	180	03-Jan-25	01-Jul-25	0	~~~				~~~	~~~				~~~	~~~			~~~~	~~~			1	
Design Process													-								-			
Conceptual Design - Misc Storm Repairs, Mitigation & Site Restoration	200	91	05-Jul-19 A	28-Sep-23	54																			LLL.
RFP / Advertise - Final Design - Misc Storm Repairs, Mitigation & Site Restora	29	29	29-Sep-23	27-Oct-23	0														þ					
Award / NTP Final Design - Misc Storm Repairs, Mitigation & Site Restoration	180	180	28-Oct-23	24-Apr-24	0															- : :				
Final Design - Misc Storm Repairs, Mitigation & Site Restoration	270	270	25-Apr-24	19-Jan-25	0																			
Bid / Construction			00 1 05	00 1 05																				
County Prepare Bid for Advertisement - Misc Storm Repairs, Mitigation & Site	11	11	20-Jan-25	30-Jan-25	0																		.i	
Bid / Advertise - Misc Storm Repairs, Mitigation & Site Restoration	29 1	29	31-Jan-25	28-Feb-25 04-Mar-25	0																			
Bid Opening - Misc Storm Repairs, Mitigation & Site Restoration Award / NTP - Misc Storm Repairs, Mitigation & Site Restoration	180	180	04-Mar-25 05-Mar-25	31-Aug-25	0																			
Construction - Misc Storm Repairs, Mitigation & Site Restoration	731	731	31-Aug-25	31-Aug-27*	0																	╶┊╴╽╶┊		
S3B119-06G - Bay Park STP Heating Hot Water Piping Temporary Syst			017 kug 20	017 kug 21	Ű			-		<b>7</b>														$\square$
Design Process																								
Final Design - Heating Hot Water Piping Temporary System	90	0	01-May-15 A	17-Jun-15 A	100																			
Bid / Construction		-	••••••••••••••••••••••••••••••••••••••					-		,														
County Prepare Bid for Advertisement - Heating Hot Water Piping Temporary	7	0	12-Jun-15 A	18-Jun-15 A	100			11È																
Bid / Advertise - Heating Hot Water Piping Temporary System	8	0	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			†††††				1111		; <u> </u> <u> </u>	:-:			*- <b> </b> -*-	· • · · · · ·				·i · i · i · i	r † †
Award / NTP - Heating Hot Water Piping Temporary System	13	0	01-Jul-15 A	13-Jul-15 A	100			111																
Construction - Heating Hot Water Piping Temporary System	124	0	13-Jul-15 A	04-Aug-16 A	100																			
S35121-06G - Aeration Blower Facility										-														
CM Contract																					-			
RFP / Advertise CM Services - Aeration Blower Facility	29	29	30-May-24	27-Jun-24	0																			
Award / NTP CM Services - Aeration Blower Facility	180	180	28-Jun-24	24-Dec-24	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-18 A	30-Jun-20 A	100			<u>         </u>																ЦL
RFP / Advertise - Final Design - Aeration Blower Facility	29	0	08-Dec-21 A	28-Jan-22 A	100												•							
Award / NTP Final Design - Aeration Blower Facility	180	84	29-Jan-22 A	21-Sep-23	53													: :						
Final Design - Aeration Blower Facility	300	300	22-Sep-23	17-Jul-24	0																			
Bid / Construction	_	_	40.1.1.5.1	04115																				
County Prepare Bid for Advertisement - Aeration Blower Facility	7	7	18-Jul-24	24-Jul-24	0									ļ						<u> </u>				ļ
Bid / Advertise - Aeration Blower Facility	29	29	26-Jul-24	23-Aug-24	0																			
Bid Opening - Aeration Blower Facility Award / NTP - Aeration Blower Facility	1 180	1 180	27-Aug-24 28-Aug-24	27-Aug-24 23-Feb-25	0																			
Construction - Aeration Blower Facility	1095	1095	23-Feb-25	22-Feb-28*	0																			
S35123-L38H - Contaminated Soil Hauling & Disposal	1055	1095	254 65-25	22-1 60-20	0																			
Design Process																			• • • • • • • • • • • • • • • • • • • •				+-+-+	
Prepare Design Documents - Contaminated Soil Hauling & Disposal	270	0	26-Oct-20 A	07-Jan-21 A	100																			
Bid / Construction	210	Ű	20 0012071	of call 2177	130																			
County Prepare Bid for Advertisement - Contaminated Soil Hauling & Dispose	7	0	08-Jan-21 A	14-Jan-21 A	100																			
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			1111				1111			计位		1111	(**†***						r i t
Award / NTP - Contaminated Soil Hauling & Disposal	180	0	17-Feb-21 A	07-Mar-22 A	100																			
Construction - Contaminated Soil Hauling & Disposal	90	0	07-Mar-22 A	03-Jun-22 A	100																			
S3P311 - 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																			111
S3P311-02G - Cedar, Roosevelt, Whitewood, Biltmore & Alhambra		-			.50	-						♥!!!												
Design Process						-		┿┥																
Finalize Technical Memorandum - 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			++++-				+++			111			-+-+-					****	r-t-t-
RFP / Advertise Final Design - Pump Station 2	30	0	31-Jan-14 A	28-Feb-14 A	100																			
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		- i i 🗖																	
Bid / Construction								-		+		<b>7</b>												
		0	27-Mar-15 A	00 Apr 15 A	400	111111111	+	-1-1-1-	rl ÷¦-			1	+	r - 1 <del>i</del>	n - rie - t - rie			ne e te eie e		p-1			-1-1-1-1	mit
County Prepare Bid for Advertisement - Pump Station 2	7	0	27-Wal-15A	09-Apr-15 A	100					11					: :   :								1 1 1 1	1 1 1

Remaining Work



-	Park Master Schedule 230630	Oria Dur	Born Dur	Start		ter Scheo		2045	2046	2047	2010	0040	0000	2024	2000	000	2 1	2024	00	of 30-J	
Activity Nan	ile .	Orig Dur	Rem Dur	Start	Finish	% Comp 2	2013 2014 QQQQQQ		2016 2 Q Q Q	2017 Q Q Q Q C	2018 2 Q Q Q		2020 Q Q Q Q	2021 Q Q Q Q	2022 Q Q Q Q			2024	20: Q Q Q	2026 Q Q Q (	2027 QQQ
	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										•										
	Design Process						-	<b></b>													
	Finalize Technical Memorandum - Pump Station 3	140	0	12-Aug-13 A	22-Nov-13 A	100															
	Preliminary Design - Pump Station 3	67	0	23-Nov-13 A	28-Jan-14 A	100															
	RFP / Advertise Final Design - Pump Station 3	30	0	31-Jan-14 A	28-Feb-14 A	100															
	Award / NTP Final Design - Pump Station 3	90	0	01-Mar-14 A	23-Sep-14 A	100														 	
	Final Design - Pump Station 3	90	0	23-Sep-14 A	13-Apr-15 A	100															
	Bid / Construction							-			•										
	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	01-May-15 A	29-May-15 A	100															
	Bid Opening - Pump Station 3	1	0	02-Jun-15 A	02-Jun-15 A	100															
	Award / NTP - Pump Station 3	90	0	03-Jun-15 A	03-Mar-16 A	100			•												
	Construction - Pump Station 3	540	0	03-Mar-16 A	12-Feb-18 A	100					•										
	S3P311-02M - PS2 & PS3 Construction Management								+•												
	CM Contract						•														
	RFP / Advertise CM Services - PS2 & PS3	29	0	03-Oct-14 A	31-Oct-14 A	100							1111					- 1			111
	Award / NTP OM Services - PS2 & PS3	90	0	01-Nov-14 A	03-Mar-16 A	100			<b>-</b>												
	S3P311-04G - Felix, Fox, Northern & Grand																				
	Design Process							┿┽┊┊													
	Finalize Technical Memorandum - Pump Station 4	140	0	12-Aug-13 A	22-Nov-13 A	100															
	Preliminary Design - Pump Station 4	67	0		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																				
	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			17-Apr-15 A	100															
	Bid Opening - Pump Station 4	1	0	21-Apr-15 A	21-Apr-15 A	100															
	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				-																
	Design Process						<b>-</b>	<b></b>													
	Finalize Technical Memorandum - 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		25-Apr-14 A	100															
	Award / NTP Final Design - Pump Station 5	94	0	26-Apr-14 A	01-Dec-14 A	100	-++++++++++++++++				1-1-1-1					; <u> </u>				 	
	Final Design - Pump Station 5	90	0	01-Dec-14 A	01-May-15 A	100															
	Bid / Construction							-													
	County Prepare Bid for Advertisement - Pump Station 5	7	0	02-May-15 A	21-May-15 A	100		1													
	Bid / Advertise - Pump Station 5	29	0	-	19-Jun-15 A	100															
	Bid Opening - Pump Station 5	1	0		23-Jun-15 A	100	-+				1111								-1-1-1		
	Award / NTP - Pump Station 5	90	0	24-Jun-15 A	15-Nov-15 A	100															
	Construction - Pump Station 5	540	0	16-Nov-15 A	29-Aug-17 A	100			1 1 1 1												
	S3P311-04M - PS4 & PS5 Construction Management								/												
	CM Contract								<b>,</b>												
	RFP / Advertise CM Services - PS4 & PS5	29	0	07-Nov-14 A	05-Jan-15 A	100					+									 	
	Award / NTP QM Services - PS4 & PS5	90			16-Nov-15 A	100															
	S3P311-06G - Ocean, Mill, Woodmere & Longacre						-														
	Design Process																				
	Finalize Technical Memorandum - Pump Station 6	140	0	12-Aug-13 A	22-Nov-13 A	100															
	Preliminary Design - Pump Station 6	67	0	23-Feb-14 A	25-Apr-14 A	100	╶┼╌┯╌┝ <sub>╧</sub> ┧╌┾╌┥		•		+					┊╌ <u></u> ┼╌┊╌ <mark>╿</mark>				 	·
	RFP / Advertise Final Design - Pump Station 6	29			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	15-Apr-15 A	17-Sep-15 A	100															
		50	0	107.01-10.4	11-00p-10A	100										:   :					
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Actual Work
Remaining Work

Page 7 of 11



Bay Park Master Schedule 230630				Mas	ter Schec		Let	ter															A	As of	30-J	un-23
Activity Name C	Drig Dur	Rem Dur	Start	Finish	% Comp 2			014 010	2015	201		2017	2018		019 0000	2020	2021		)22 Nolou	2023		2024	2025	20: 20.00		2027 28 2020 Q
Bid / Construction											alala	QQC		QQC			uuu	QQQ			QQ	QQQ	quu	JUU		
County Prepare Bid for Advertisement - Pump Station 6	7	0	18-Sep-15 A	24-Sep-15 A	100		11																			
Bid / Advertise - Pump Station 6	29	0	25-Sep-15 A	23-Oct-15 A	100																					
Bid Opening - Pump Station 6	1	0	27-Oct-15 A	27-Oct-15 A	100																					
Award / NTP - Pump Station 6	90	0		15-Mar-17 A	100						<u> </u>															
Construction - Pump Station 6	550	0	15-Mar-17 A	17-Aug-18 A	100			<u> </u>																		
S3P311-07G - Inwood, Doughty, Bayview & Roslyn																										
Design Process	1.10		40.4 40.4	00 NL 40 A	100					•																
Finalize Technical Memorandum - Pump Station 7	140	0	12-Aug-13 A	22-Nov-13 A	100																					
Preliminary Design - Pump Station 7 RFP / Advertise Final Design - Pump Station 7	67 29	0	23-Mar-14 A 30-May-14 A	28-May-14 A 27-Jun-14 A	100																					
Award / NTP Final Design - Pump Station 7	90	0	-	13-May-15 A	100	·+-+-		· · · · ·	<u></u>																	+-+-+-
Final Design - Pump Station 7	90	0		16-Nov-15 A	100																					
Bid / Construction		-												-												
County Prepare Bid for Advertisement - Pump Station 7	7	0	16-Nov-15 A	19-Nov-15 A	100					1																
Bid / Advertise - Pump Station 7	29	0	20-Nov-15 A	18-Dec-15 A	100																					
Bid Opening - Pump Station 7	1	0	22-Dec-15 A	22-Dec-15 A	100		11	T			-1-1-	[			111	1.1.1.			T							
Award / NTP - Pump Station 7	90	0	23-Dec-15 A	15-Mar-17 A	100						++															
Construction - Pump Station 7	540	0	15-Mar-17 A	13-May-19 A	100						1			<b></b>												
S3P311-06M - PS6 & PS7 Construction Management																										
CM Contract							<b> </b>	ļ																		
RFP / Advertise CM Services - PS6, PS7 & PS8	29	0	,,	19-Jun-15 A	100																					
Award / NTP OM Services - PS6, PS7 & PS8	90	0	20-Jun-15 A	15-Mar-17 A	100																					
S3P311-08G - East Avenue																										
CM Contract	20	0	08-Mar-19 A	05 Apr 10 A	100																					
RFP / Advertise CM Services - East Avenue Pump Station Award / NTP CM Services - East Avenue Pump Station	29 180	0		05-Apr-19 A 27-Oct-20 A	100	· • · • • · •		+-+								<u></u>										
Design Process	180	0	00-Api-19A	27-001-20A	100								,													
Prepare Flow Study & Technical Memorandum - Pump Station 8	27	0	18-Dec-15 A	14-Jul-16 A	100																					
RFP / Advertise - Pump Station 8	29	0		12-Aug-16 A	100																					
Award / NTP Fn al 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			11							1	-1										
Bid / Construction												'														
County Prepare Bid for Advertisement - East Avenue Pump Station	7	0		07-Mar-19 A	100																					
Bid / Advertise - East Avenue Pump Station	29	0		05-Apr-19 A	100																					
Bid Opening - East Avenue Pump Station	1	0		09-Apr-19 A	100	4										<u></u>										
Award / NTP - East Avenue Pump Station Construction - East Avenue Pump Station	180 540	0	09-Apr-19 A 02-Nov-20 A	02-Nov-20 A 17-Oct-22 A	100										: :											
S3P311-09G - Hempstead Wastewater Pumping Station	540	0	02-110V-20 A	17-00-22 A	100																					
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 - Hempste ad Wastewater Pumping Station	90	0		29-May-14 A	100	· · · · · · ·		it tr							†-†-†				†-†-†							****
Final Design - Hempstead Wastewater Pumping Station	185	0	18-Jun-14 A	24-Jun-15 A	100			i i i i i i i i i i i i i i i i i i i																		
Bid / Construction									-		+			++												
County Prepare Bid for Advertisement - Hempstead Wastewater Pumping Sta	7	0		30-Jun-15 A	100																					
Bid / Advertise - Hempstead Wastewater Pumping Station	29	0		14-Aug-15 A	100		<u> </u>	<u></u>																		
Bid Opening - Hempstead Wastewater Pumping Station	1	0		18-Aug-15 A	100																					
Award / NTP - Hempstead Wastewater Pumping Station	90	0		25-Apr-16 A	100																					
Construction - Hempstead Wastewater Pumping Station	460	0	25-Apr-16 A	22-Nov-19 A	100						:	: : :		l i	: :											
S3P311-09S - Hempstead Wastewater Force Main								1																		
Design Process RFP / Advertise Final Design - Hempstead Wastewater Force Main	29	0	22-Nov-13 A	20-Dec-13 A	100																					
Award / NTP Final Design - Hempstead Wastewater Force Main	90	0		29-May-14 A	100	11.																				
Final Design - Hempstead Wastewater Force Main	185	0		24-Jun-15 A	100																					
Bid / Construction									-																	
County Prepare Bid for Advertisement - Hempstead Wastewater Force Main	7	0	25-Jun-15 A	30-Jun-15 A	100													-								
Bid / Advertise - Hempstead Wastewater Force Main	29	0		14-Aug-15 A	100										111											
Bid Opening - Hempstead Wastewater Force Main	1	0		18-Aug-15 A	100																					
Award / NTP - Hempstead Wastewater Force Main	90	0		25-Apr-16 A	100																					
Construction - Hempstead Wastewater Force Main	450	0	25-Apr-16 A	01-May-19 A	100			: :			1															
Remaining Level of Effort     Actual Work     Actual Level of Effort     Remaining W	'ork				Page 8 d	of 11	1									Η	az						DIS	5		

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														-					
S3P311-09M - Hempstead Wastewater Pumping Station & Force Main	n CM						7												
CM Contract																			
RFP / Advertise CM Services - Hempstead Wastewater Pump Sta & FM	29	0 17-Oct-1		100															
Award / NTP OM Services - Hempstead Wastewater Pump Sta & FM	90	0 15-Nov-1	4 A 01-Feb-16 A	100			┦┊┊┊│												
S3P311-10G - Lawrence PS (STP) & Sage Lake PS																			
CM Contract								◀ : :											
RFP / Advertise CM Services - Lawrence STP & Sage Lake PS	28	0 25-Jan-1	6 A 22-Feb-16 A	100															
Award / NTP OM Services - Lawrence STP & Sage Lake PS	90	0 23-Feb-1	6 A 22-Mar-17 A	100															
Design Process					V-														
Preliminary Design - Lawrence STP & Sage Lake PS	75	0 02-Jun-1	4 A 12-Sep-14 A	100	🛑														
RFP / Advertise Final Design - Lawrence STP & Sage Lake PS	29	0 12-Sep-1	4 A 10-Oct-14 A	100															
Award / NTP Final Design - Lawrence STP & Sage Lake PS	61	0 11-Oct-1	4 A 15-Sep-15 A	100															
Final Design - Lawrence STP & Sage Lake PS	180	0 15-Sep-1	5 A 08-Mar-16 A	100		- i i 📫													
Bid / Construction							1 <del>• • • •</del>												
County Prepare Bid for Advertisement - Lawrence STP & Sage Lake PS	7	0 09-Apr-1	6 A 14-Apr-16 A	100															
Bid / Advertise - Lawrence STP & Sage Lake PS	29	0 15-Apr-1	6A 13-May-16A	100															
Bid Opening - Lawrence STP & Sage Lake PS	1	0 17-May-1	6A 17-May-16A	100										1111					
Award / NTP - Lawrence STP & Sage Lake PS	90	0 18-May-1	6 A 22-Mar-17 A	100															
Construction - Lawrence STP & Sage Lake PS	550	0 22-Mar-1		100					<u> </u>				1   1	1   1	1 1		1 1 1 1	1.1	
S3P311-11G - Roslyn Village, Morgan Park & Shore Road							<b>V</b>						<u></u>						
CM Contract										: : :	1 1 1			1   1	1 1				
RFP / Advertise CM Services - Roslyn Village, Morgan Park & Shore Rd	47	0 05-Oct-1	8A 02-Nov-18A	100			+		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · ·	╬╍╬╍╬╍╋				· · · · · · ·	
Award / NTP OM Services - Roslyn Village, Morgan Park & Shore Rd	180	0 03-Nov-1		100					115 <u>–</u>	: : :			1   1	1   1	1 1				
	180	0 03-1100-1	01-Dec-20A	100															
Design Process	75			100															
Preliminary Design - Roslyn Village, Morgan Park & Shore Rd	75	0 01-Mar-1		100										111	1 1				
RFP / Advertise Final Design - Roslyn Village, Morgan Park & Shore Rd	29	0 17-Jun-1		100											4				
Award / NTP Final Design - Roslyn Village, Morgan Park & Shore Rd	60	0 16-Jul-16		100															
Final Design - Roslyn Village, Morgan Park & Shore Rd	154	0 02-Feb-1	7 A 02-Aug-17 A	100															
Bid / Construction									: : :										
County Prepare Bid for Advertisement - Roslyn Village, Morgan Park & Shore	7	0 13-Oct-1	7 A 09-Nov-17 A	100															
Bid / Advertise - Roslyn Village, Morgan Park & Shore Rd	29	0 10-Nov-1	7 A 08-Dec-17 A	100															
Bid Opening - Roslyn Village, Morgan Park & Shore Rd	1	0 12-Dec-1	7 A 12-Dec-17 A	100															
Award / NTP - Roslyn Village, Morgan Park & Shore Rd	90	0 13-Dec-1	7 A 01-Dec-20 A	100				- i i i 📫											
Construction - Roslyn Village, Morgan Park & Shore Rd	365	0 01-Dec-2	0 A 18-Jul-22 A	100											1 1				
S80019-03GR - Cedar Point Lake (Doxey Brook) Pump Station							V			•	7								
CM Contract								++++							1 1				
RFP / Advertise CM Services - Cedar Point Lake PS	29	0 01-Dec-1	6 A 23-Dec-16 A	100									*****	†-†-†- <b>†</b>			****		
Award / NTP OM Services - Cedar Point Lake PS	90	0 24-Dec-1		100				111											
Design Process		•] •·•••																	
Final Design - Cedar Point Lake PS	180	0 10-Feb-1	6 A 28-Oct-16 A	100					111				1   1	1   1	1 1		1 1 1 1	1.1	
Bid / Construction	100	0 101001	20 000 1070	.00							,								
County Prepare Bid for Advertisement - Cedar Point Lake PS	7	0 29-Oct-1	6A 01-Dec-16A	100			+-+-+-+		· • · · • · • · • · • · • · • · • · •				+	÷	-++-	·····	+-+-+-		
Bid / Advertise - Cedar Point Lake PS	29	0 23-Oct-1		100															
Bid Opening - Cedar Point Lake PS	1	0 10-Jan-1		100									1   1	1   1	1 1				
· · ·	90																		
Award / NTP - Cedar Point Lake PS		0 11-Jan-1		100															
Construction - Cedar Point Lake PS	540	0 03-Jan-1	8 A 20-Dec-19 A	100					-+					<u></u>	<u>_</u>				
litrogen Reduction Projects																			
S35123-L38G - Sidestream Deammonification					•										<b>v</b>				
CM Contract																			
RFP / Advertise CM Services - Sidestream Centrate Treatment	29	0 28-Jul-17	7 A 25-Aug-17 A	100				- i i 🔒 🕴					1   1	8   8	1 1				
Award / NTP CM Services - Sidestream Centrate Treatment	90	0 26-Aug-1	7 A 16-Dec-19 A	100					: : :	: : :									
RFP Process					***								+	*****	-++-				
Develop / Issue RFI - Sidestream Centrate Treatment	60	0 30-Sep-1	4 A 26-May-15 A	100															
RFI Response Period - Sidestream Centrate Treatment	41	0 26-May-1		100									1   1	8   8	1 1			1.1	
RFI Evaluation Period - Sidestream Centrate Treatment	88	0 08-Aug-1		100															
NCDPW Review & Award Sidestream Centrate Treatment	120	0 01-Mar-1		100					111				1   1		1 1				
Design Process	120		20-060-1074	100				<u></u>					• • • • • • • • • • •	<u></u> ┽╍ <u></u> ┽╍ <mark></mark>		++++			
Complete Technical Design Report	60	0 27-Sep-1	6 A 26-Nov-16 A	100				•											
Detailed Design - Sidestream Centrate Treatment	275			100															
	213	0 27-Sep-1	6 A 31-Oct-17 A	100										: I i					<u> </u>

Remaining Work



Park Master Schedule 230630			Master Schedule Letter								As of 30-Jun-23												
me	Orig Dur	Rem Dur	Start	Finish	% Comp 2		2014 Q Q C			6 2017 ସ Q Q Q Q			2019 2000	2020 Q Q Q Q	2021	202 Q Q Q Q		23 Q Q	2024 Q Q Q			2026	
Bid / Construction																		-					
County Prepare Bid for Advertisement - Sidestream Centrate Treatment	17	0	01-Nov-17 A	16-Nov-17 A	100																		
Bid / Advertise - Sidestream Centrate Treatment	29	0	17-Nov-17 A	05-Jan-18 A	100																	1111	
Bid Opening - Sidestream Centrate Treatment	1	0	09-Jan-18 A	09-Jan-18 A	100																		
Award / NTP - Sidestream Centrate Treatment - Canceled - Re-bid	90	0	10-Jan-18 A	23-Aug-18 A	100																		
Re-Bid / Advertise - Sidestream Centrate Treatment	29	0	24-Aug-18 A	21-Sep-18 A	100																		
Re-Bid Opening - Sidestream Centrate Treatment	1	0	25-Sep-18 A	25-Sep-18 A	100							i I											
Award / NTP - Sidestream Centrate Treatment	180	0	26-Sep-18 A	31-Dec-19 A	100	111													111			1111	
Construction - Sidestream Centrate Treatment	730	63	31-Dec-19 A	31-Aug-23*	91																		
S35123-L39G - Level 1 BNR Improvements									-				<del></del>										
CM Contract																							
RFP / Advertise CM Services - Level 1 BNR Improvements	31	0	29-Jul-16 A	26-Aug-16 A	100																		
Award / NTP OM Services - Level 1 BNR Improvements	90	0	27-Aug-16 A	05-Jul-17 A	100	· · · · · ·							+-+-+										
Design Process		-	5							-													
Design - Level 1 BNR Improvements	120	0	30-Nov-15 A	23-Sep-16 A	100					<b> </b>													
Bid / Construction	.20	Ŭ											+ + +			-							
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	29	0	15-Nov-16 A	15-Nov-16 A	100					5111													
Award / NTP - Level 1 BNR Improvements	90	0	16-Nov-16 A	05-Jul-17 A	100																		
-			05-Jul-17 A		100							1	111										
Construction - Level 1 BNR Improvements (Substantial Completion) Construction - Cyberprop Change Order	913 365	0		30-Apr-20 A 31-Dec-21 A	100																		
	303	0	01-May-20 A	31-D80-21 A	100		-+						<u></u>								4	<u></u>	
ong Beach WPCP Consolidation																							
S35109-01GR - Long Beach Pump Station																							
Design Process													-										
Pump Station Final Design - Long Beach Pump Station (PMJV)	186	0	06-May-19 A	21-Jul-20 A	100																		
Bid / Construction	· · · · · · · · · · · · · · · · · · ·													🖛			+ + +				÷ v		
Prepare Bid for Advertisement - Long Beach Pump Station	7	0	22-Jul-20 A	30-Jul-20 A	100			T T T	1111				TTT		TTT						111	111	
Bid / Advertise - Long Beach Pump Station	29	0	31-Jul-20 A	23-Oct-20 A	100																		
Bid Opening - Long Beach Pump Station	1	0	27-Oct-20 A	27-Oct-20 A	100									h									
Award / NTP - Long Beach Pump Station - Canceled	205	0	28-Oct-20 A	20-Apr-21 A	100										<b>⊨</b> ⇒ : :								
Redesign - Long Beach Pump Station	7	0	21-Apr-21 A	18-Nov-21 A	100																		
Prepare Bid for Advertisement - Long Beach Pump Station	30	0	31-Jan-22 A	23-Jun-22 A	100			11					T 1 1	- <u> </u> - -	1-1-1-1		· • • • • • •				111	111	
Bid / Advertise - Long Beach Pump Station	57	0	24-Jun-22 A	16-Sep-22 A	100																		
Bid Opening - Long Beach Pump Station	1	0	20-Sep-22 A	20-Sep-22 A	100																		
Award / NTP - Long Beach Pump Station	182	28	21-Sep-22 A	27-Jul-23	85																		
Construction - Long Beach Pump Station	844	844	27-Jul-23	16-Nov-25*	0													<u> </u>					
S35109-01S - Long Beach HDD Force Main		-						:- i		· i ·   · i · i · i							·					:::::	
Design Process													1			<b>-</b>							
HDD Final Design - Long Beach HDD Force Main (PMJV)	186	0	06-May-19 A	24-Nov-21 A	100										1:::								
Bid / Construction		-																					
Prepare Bid for Advertisement - Long Beach HDD Force Main	2	0	31-Jan-22 A	23-Jun-22 A	100																		
Bid / Advertise - Long Beach HDD Force Main	57	0	24-Jun-22 A	16-Sep-22 A	100	· • • • • •								<u> </u>	+-+-+-+	···   · · · · ·					+-+-		
Bid Opening - Long Beach HDD Force Main	1	0	20-Sep-22 A	20-Sep-22 A	100																		
Award / NTP - Long Beach HDD Force Main	182	28	21-Sep-22 A	27-Jul-23	85																		
Construction - Long Beach HDD Force Main	828	828	27-Jul-23	31-Oct-25*	0														: : :				
S35109-01MR - Long Beach Consolidation CM Contract														🕂				7			$\square$		
RFP / Advertise CM Services - Long Beach Consolidation	29	0	12-Jun-20 A	10-Jul-20 A	100								÷				• • • • • • •					·	
Award / NTP OM Services - Long Beach Consolidation	180	0	11-Jul-20 A	30-Oct-21 A	100																		
-																							
Prepare Rebid CM Services - Long Beach Consolidation	29	0	31-Oct-21 A	23-Jun-22 A	100																		
RFP / Advertise CM Services - Long Beach Consolidation Award / NTP CM Services - Long Beach Consolidation	29	0	24-Jun-22 A	05-Aug-22 A	100 84																		
_	180	28	06-Aug-22 A	27-Jul-23	84								+-+										
S35109-03G - Hempstead Bay Hassocks Restoration																•							
CM Contract																			-				
RFP / Advertise CM Services - Hempstead Bay Hassocks Restoration	31	31	01-Sep-23	01-Oct-23	0																		
Award / NTP CM Services - Hempstead Bay Hassocks Restoration	170	170	02-Oct-23	19-Mar-24	0																		
Design Process													<u> </u>       .			•	<u>'</u>						
Design - Hempstead Bay Hassocks Restoration	120	0	28-Oct-21 A	21-Jul-22 A	100																		
				1.								I											

Remaining Work 



Bay	Park Master Schedule 230630				Mast	er Scheo	dule	Letter															As of 30-Jun-23			
Activity Na	ne	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	201	6	2017	2018	2019	202	2	021	2022	2	2023	2024	20	025	2026	2027	12
							QQC		2QQ	QQQQ	QQQ		QQQ				2 Q Q	QQQ	QQO	QQC	QQQ	QQC		QQQ	2000	. C
	Bid / Construction																					7				1
	Prepare Bid for Advertisement - Hempstead Bay Hassocks Restoration	7	7	01-Sep-23*	07-Sep-23	0														1						1
	Bid / Advertise - Hempstead Bay Hassocks Restoration	29	29	08-Sep-23	06-Oct-23	0														D,						1
	Bid Opening - Hempstead Bay Hassocks Restoration	1	1	10-Oct-23	10-Oct-23	0														)						1
	Award / NTP - Hempstead Bay Hassocks Restoration	170	170	11-Oct-23	28-Mar-24	0															=					1
	Construction - Hempstead Bay Hassocks Restoration	180	180	29-Mar-24	24-Sep-24*	0																ŧ				1
	S35109-05 - Collection System Pump Station Mitigation																		-					-		1
	CM Contract																				-	+				1
	RFP / Advertise CM Services - Collection System Pump Station Mitigation	29	29	18-Jun-24	16-Jul-24	0															Ó					í.
	Award / NTP OM Services - Collection System Pump Station Mitigation	180	180	17-Jul-24	12-Jan-25	0																				1
	Design Process																		++							1
	Preliminary Design - Collection System Pump Station Mitigation	180	0	03-Jan-23 A	15-Jun-23 A	100																				í.
	RFP / Advertise Final Design - Collection System Pump Station Mitigation	29	22	16-Jun-23 A	21-Jul-23	24														<b>þ</b>						1
	Award / NTP Final Design - Collection System Pump Station Mitigation	180	180	21-Jul-23	16-Jan-24	0														ļ						1
	Final Design - Collection System Pump Station Mitigation	153	153	17-Jan-24	17-Jun-24	0															<b>—</b>					1
	Bid / Construction																							-		1
	County Prepare Bid for Advertisement - Collection System Pump Station Mitic	7	7	19-Jun-24	25-Jun-24	0															- E					1
	Bid / Advertise - Collection System Pump Station Mitigation	29	29	28-Jun-24	26-Jul-24	0															Þ					Í.
	Bid Opening - Collection System Pump Station Mitigation	1	1	30-Jul-24	30-Jul-24	0																				1
	Award / NTP - Collection System Pump Station Mitigation	180	180	31-Jul-24	26-Jan-25	0																				1
	Construction - Collection System Pump Station Mitigation	548	548	27-Jan-25	28-Jul-26*	0																i 📫		• !		1
	S35109-06 - Long Beach WPCP Decommissioning																		•							1
	CM Contract																					+	▼			1
	RFP / Advertise CM Services - WPCP Decommissioning	29	29	26-Dec-24	23-Jan-25	0																• • •				1
	Award / NTP CM Services - WPCP Decommissioning	180	180	24-Jan-25	22-Jul-25	0										111										1
	Design Process																		•			-				Í.
	Prepare Design RFP - WPCP De commissioning	90	0	03-Apr-23 A	11-May-23 A	100														1						Í.
	RFP / Advertise Final Design - WPCP Decommissioning	29	1	12-May-23 A	30-Jun-23	97																				1
	Award / NTP Final Design - WPCP Decommissioning	180	180	01-Jul-23	27-Dec-23	0														<b>—</b>						Í.
	Final Design - WPCP Decommissioning	365	365	27-Dec-23	25-Dec-24	0																				1
	Bid / Construction																									1
	County Prepare Bid for Advertisement - WPCP Decommissioning	7	7	27-Dec-24	02-Jan-25	0																				1
	Bid / Advertise - WPCP Decommissioning	29	29	03-Jan-25	31-Jan-25	0																				1
	Bid Opening - WPCP Decommissioning	1	1	04-Feb-25	04-Feb-25	0																				.L.
	Award / NTP - WP CP Decommissioning	180	180	05-Feb-25	03-Aug-25	0																📫				1
	Construction - WPCP Decommissioning	450	450	04-Aug-25	27-Oct-26*	0																		<b></b>		1
	S35109-02G - Austin Boulevard Force Main													•												1
	Design Process																									1
	Prepare RFP - Austin Boulevard Force Main Design	7	0	05-Feb-16 A	10-Feb-16 A	100																				l.
	Issue RFP for On-Call Final Design - Austin Boulevard Force Main	15	0	11-Feb-16 A	26-Feb-16 A	100				•																1
	Award / NTP Final Design - Austin Boulevard Fore Main Design	14	0	27-Feb-16 A	01-Jun-16 A	100																				1
	Design - Austin Boulevard Force Main	310	0	01-Jun-16 A	07-Sep-18 A	100				🗰	+ +															1
	Bid / Construction													▼												1
	County Prepare Bid for Advertisement - Austin Boulevard Force Main	7	0	08-Sep-18 A	13-Sep-18 A	100							<u> </u>													-l
	Bid / Advertise - Austin Boulevard Force Main	29	0	14-Sep-18 A	09-Nov-18 A	100																				1
	Bid Opening - Austin Boulevard Force Main	1	0	13-Nov-18 A	13-Nov-18 A	100								411												1
N	lilestones						-																			٢
	Program Management Award	0	0	12-Aug-13 A		100	•																			1
	Program Management Complete	0	0	-	22-Feb-28	0																				<b> </b>
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Remaining Level of Effort

Actual 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 Improvements	S35121-03G
Sludge dewatering facilities	Sludge Dewatering Facilities Improvements	S35121-09G
Effluent Screening and disinfection	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	S35121-14F
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 Operation	Engine Generator Facility Auxiliary Improvements	S35121-16A
Hot water piping system	Permanent HW/CW Piping System	S35121-16P
Cedar Dr, Roosevelt et al PS	Cedar Drive, Roosevelt, Whitewood, Biltmore 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 Repairs	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 falkound.	7/27/2023
Signature	Date Signed