

July 28, 2021

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

Bay Park Sewage Treatment Plant  
**2021 Q2 Quarterly Report**

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Dear Mr. Hampston:

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

Very truly yours,



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

<b>c:</b>	<b>NCDPW</b> <i>Kenneth Arnold</i> <i>Edward Visone</i> <i>Jane Houdek</i> <i>Karen Fay</i> <i>Elisa Picca</i> <i>Chris Vella</i>	<b>Hazen and Sawyer</b> <i>Mark Hanson</i> <i>Paul Saurer</i> <i>Eric Mills</i> <i>Tom Zakrzewski</i>	<b>ARCADIS</b> <i>Peter Glus</i> <i>Greg Bazydola</i> <i>Maryanne Dioquino</i> <i>Khanhtran Do</i>	<b>DEC</b> <i>Anthony Leung</i> <i>Katie French</i> <i>Paul Harding</i> <i>Brian Lee</i> <i>Josh Lin</i> <i>Ryan Waldman</i> <i>Andrew Fera</i> <i>Andrew Fleck</i>
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# DEC Agreement Q2 2021 Report



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## **Background**

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

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

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

**I.0****Executive Summary**

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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, 2021 through June 30, 2021 (“Reporting Quarter”).

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

II.0

## Modification Request and Force Majeure Status

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

**Table 1 – Modification Requests and Force Majeure Notifications**

Milestone	Agreement Date	Mod request letter date	Revised date requested	DEC Response Date	Modified Milestone Date <sup>1</sup>
General Covid-19 FM		3/19/2020 <sup>2</sup>			

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1. Bold denotes current date, italic superseded
  2. Force Majeure

**III.0****Design Milestone Status**

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

**Table 2 – Design Completion Milestones**

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

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

**Project Notes:**

All agreement design milestones have been completed and certifications accepted.

## IV.0

## Construction Milestone Status

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

**Table 3 – Construction NTP Milestones**

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

**Table 4 – Construction Completion Milestones**

Milestone	Agreement Date	Actual/Forecast	% Complete
1 Barnes Avenue – Baldwin	12/31/2019	10/4/2019 A	100%
2 Raw Sewage Pumping Facility	2/15/2024	10/18/2023	3%
3 Sludge Dewatering Facilities	12/15/2018	5/21/2018 A	100%
4 Effluent Screening and Disinfection	8/22/2023	11/7/2022	22%
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	12/9/2021	75%
8 Stormwater Pump Stations	3/31/2019	3/28/2019 A	100%
9 Upgrade To 3 Generator Operation	5/19/2019	8/30/2019 A	100%
10 Cedar Dr, Roosevelt et al PS	5/8/2018	1/12/2018 A	100%
11 Wantagh, Newbridge et al PS	4/25/2018	2/12/2018 A	100%
12 Ocean Ave, Mill Rd et al PS	12/5/2018	8/17/2018 A	100%
13 Inwood, Doughty et al PS	7/4/2019	5/13/2019 A	100%
14 Lawrence & Sage Lake PS	8/30/2018	8/13/2018 A	100%
15 East Avenue Ejector Station	10/31/2022	2/10/2022	40%
16 Level 1 BNR	5/5/2020	4/30/2020 A	100%
17 Sidestream Deammonification	10/3/2022	4/21/2022	71%

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

## **Project Notes:**

### **1. Barnes Avenue – Baldwin**

This project has been completed and milestone certification accepted.

### **2. Raw Sewage Pumping Facility**

#### Progress This Quarter:

- Notice to Proceed issued on May 3, 2021.
- Contractor mobilized to the site.
- Installed storm water pollution protection and silt fencing.
- Installed temporary planks over breezeway and installed temporary stair scaffold tower.
- Started demolition of exterior structures on existing electrical building.
- Installed temporary protection wall inside substation building.
- Removed stone on the roof of existing electrical building with vac truck.
- Demolished north side of parapet wall on existing electrical building.
- Started submitting Shop Drawings, RFI's and Subcontractor/Vendors for approval.

#### Expected Progress Next Quarter:

- Continue installation of temporary protection in existing boiler control room
- Continue cutting and start demolition of exterior wall sections and of for new columns.
- Start demolition of boiler control room windows.
- Start formwork for new columns on north wall.
- Continue west wall parapet demolition.
- Continue submission of RFI's, Submittals, Shop Drawings

### **3. Sludge Dewatering Facilities**

This project has been completed and milestone certification accepted.

### **4. Effluent Screening and Disinfection**

#### Progress This Quarter:

- Removed stop logs from Screening Channel No. 1.
- Returned Screening Channel No. 1 to Plant Operations.
- Installed stop logs in Screening Channel No. 3.
- Demolished the inlet and outlet butterfly valves in Screening Channel No. 3.
- Cleaned Screening Channel No. 3.
- Continued preparation and submission of administrative and technical submittals.

#### Expected Progress Next Quarter

- Inspect the mud valve in Screening Channel No. 3.
- PE inspection of Screening Channel No. 3.
- Patch unused HVAC wall opening to match existing conditions.
- Receive delivery of Hot Water Unit Heaters.
- Continue preparation and submission of administrative and technical submittals.



## **5. Effluent Tide Pumping Facilities**

This project has been completed and milestone certification accepted.

## **6. Electrical Distribution System Phases E1-E3**

Phases E1 and E2 were completed 10/19/2016 and 9/29/2017, respectively, and substantial completion for Phase E3 was achieved 9/1/2020. Certification for the milestone was submitted 10/23/2020. The Modified Agreement documents this milestone as completed.

## **7. Secondary Flood Protection**

### Progress This Quarter:

- Continued to Submit Shop Drawings, RFI's and Subcontractor/Vendors for Approval.
- Continued installing flood barriers and flood doors.
- Installed new MCC buckets for 13 out of 14 service tunnel sump pump locations.
- Installed receptacles for 13 out of 14 sump pump locations.
- Completed the installation of the CFRP laminate at the RAS building and Primary Pump Stations Nos. 2 and 3.
- Started the installation of the CFRP laminate at Primary Pump Station No. 1.
- Installed louvers at the RAS building and the Fire Protection building.
- Completed the replacement of the asphalt and curbs at the Fire Protection Building, the Dechlorination Building and the Sludge Control Building.

### Expected Progress Next Quarter:

- Continue the installation of the flood door and barriers.
- Complete the electrical construction of all sump pumps.
- Start up and testing of the service tunnel sump pumps.
- Continue the installation of the CFRP laminate at multiple locations.
- Start up and testing of the Tunnel Access Structure exhaust fans.
- Continue to submit Shop Drawings, RFI's and Subcontractor/Vendors for approval.
- Commence close-out activities.

## **8. Stormwater Pump Stations**

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

## **9. Upgrade to 3 Simultaneous Generator Operation**

The project achieved substantial completion on August 30, 2019. Milestone certification has been submitted and accepted by DEC.

## **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.

### **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.

### **15. East Avenue Ejector Station**

#### Progress This Quarter:

- Completed applying cementitious coating.
- Started applying epoxy coatings.
- Started installing monorail crane beams.
- Started installing CMU wall on entry level.
- Started installing exterior brick.

#### Expected Progress Next Quarter:

- Complete applying epoxy coatings.
- Complete applying epoxy resin coating.
- Complete installation of exterior brick work.
- Start electrical duct bank installation.
- Start mechanical and electrical installation within the pump station.

### **16. Level 1 BNR**

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

### **17. Sidestream Deammonification**

#### Progress This Quarter:

- Continued submission of general conditions items, O&Ms and technical submittals.
- Continued site lighting ductbank and installation work.
- Continued electric conduit installation on North façade of DA & EQ Tanks.
- Continued installation of electric and control panels on DA and EQ Tanks, and Sludge Pump building.
- Continued electric conduit and wire installations within the Sludge Dewatering Building.
- Continued site restoration.

- Continued Odor Control Ductwork installation.
- Continued hydrostatic water testing of DA Tanks.
- Started hydrostatic water testing of DA Tanks.
- Continued HVAC installations within dewatering building.
- Continued installation of Aluminum staircases and handrails for DA & EQ Tanks.
- Started preparation for DA tank coating system.
- Continued louver installation for dewatering building.
- Continued DA and EQ Tank Wall Repair.

Expected Progress Next Quarter:

- Continue submission of general conditions items, O&Ms and technical submittals.
- Continue mechanical, plumbing, and electric work within the sludge dewatering building.
- Continue Electric Rough-in and wire installation on DA & EQ Tanks, inside Dewatering building, and ductbanks.
- Complete EQ Tank Hydrostatic Leakage Testing and associated crack repair.
- Continue Sitework and restoration.
- Continue odor control ductwork and support installations.
- Continue HVAC installations within dewatering building.
- Continue installation of DA Tank Coating System.
- Begin mechanical installation within DA & EQ Tanks.

V.0

## Inter Municipal Agreement

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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.

## VI.0

## Nitrogen Schedule of Compliance

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

**Table 5 – Bay Park WPCP Nitrogen Milestones**

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

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

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

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

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

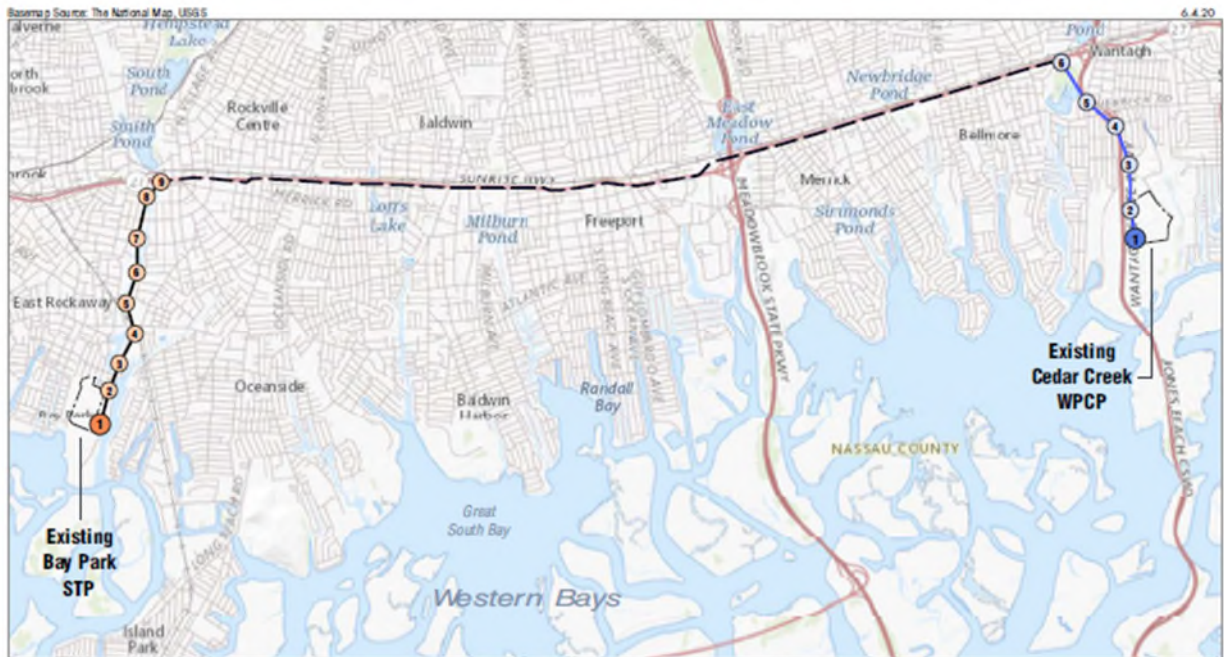
A six month report will be submitted in Q3 with a summary of performance to date and with a winter operating plan.

## VII.0

# Conveyance Project

## Executive Summary

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



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

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

The existing aqueduct is a steel pipe that is to be slip lined with a polymer pipe with the interstitial space filled with grout to maximize protection against leakage.

Construction of the new force mains would 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:

**Table 6 – Initial Conveyance Project Milestones**

<b>Description of Work</b>	<b>Agreement Date</b>	<b>Projected / Actual</b>	<b>Milestone Submitted</b>	<b>Milestone Accepted</b>
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 Dif-	10/31/2021	10/31/2021		
Notice to Proceed to Construction	2/26/2021	4/4/2021	3/9/2021	3/9/2021
Construction Start Early Works	6/25/2021	6/25/2021		
Commence Diversion of Wastewater from Bay Park to Cedar Creek	10/25/2024	10/25/2024		

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

**Table 7 – Conveyance Project Milestones**

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

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



**Progress This Quarter:****Bay Park Effluent Diversion Pump Station:**

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design, including: Bay Park Shaft; Bay Park Diversion Structure Support of Excavation; Bay Park Wet Well Support of Excavation; Bay Park Wet Well Liner and Internal Structures; Bay Park Near Surface Structures; Bay Park Pump Station Facility; Bay Park Site Utility Protection and Relocation; and Bay Park Hydraulic Modeling.
- Pump Station site mobilization; utility exploration test pits; location of effluent conduits; relocation of exterior plant site fence; installation of guide wall for wet well secants; and miscellaneous geotechnical and environmental exploration.

**Bay Park Microtunnel:**

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design including: Bay Park Microtunnel Drives 2-1, 2-3, 3-4, 5-4, 5-7, 8-7, and 8-9; Bay Park Shafts 2, 3, 4, 5, 7, 8, and 9; and Bay Park Shafts 2, 3, 4, 5, 7, 8, and 9 Support of Excavation.
- Reviewed and processed numerous work plans and construction submittals, including but not limited to, SWPPPs, Jet Grout Test Program, mix designs for permanent piles, and flowcrete shop drawings.
- Mobilization to site and set-up of trailer complex at Bay Park; utility test pits/explorations at various locations; implementation of SWPPPs; set up of site fencing at various locations; installation of instrumentation and monitoring systems at Shaft BP-1; poured guide walls for secants at Shaft BP-1; poured four (4) secants at Shaft BP-1; and site preparation and utility relocations at Shaft BP-2.

**Sunrise Highway Sliplining:**

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design, including: Sunrise Highway Slipline and Pits O, P, Q, R, S, T, and W; and Sunrise Highway Slipline and Pits A, O, P, Q, R, S, T, W Utility Protection and Relocation. Anticipate receipt of three (3) RFCD packages.
- Reviewed/processed the Aqueduct and Freeport Creek Analytical Report that was necessary to support the dewatering plan for Sunrise Highway.
- Mobilized to Sites O and P; removed roof of structure/chambers over the aqueduct pipe; drilled geotechnical and environmental borings along Sunrise Highway; dewatered the existing aqueduct from Sites O and P; and commenced lidar survey from Sites O and P towards Q.

**Cedar Creek Microtunnel:**

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design, including: Cedar Creek Microtunnel Drives 2-1, 2-3, 4-3, 4-5, and 5-6; Cedar Creek Shafts 1, 2, 3, 4, 5, and 6; Cedar Creek Shafts 2 and 3 Support of Excavation; and Cedar Creek Shafts 1, 2, and 3 Utility Protection and Relocation. Anticipate receipt of two (2) RFCD packages.
- Processed mobilization submittals and plans related to staging

- Performed geotechnical and environmental borings/monitoring along the Cedar Creek corridor; mobilized trailers at Shaft CC-1; and completed preparatory work at Cedar Creek manholes in preparation for the Pipe Diver (Pure Technology) inspection

#### Cedar Creek Effluent Pump Station/Receiving Station:

- Received and performed detailed quality and compliance reviews for several packages at the preliminary level of design, including: Cedar Creek Pump Station Upgrades; and Cedar Creek Receiving Station and Wet Tap.
- Reviewed and processed the Construction Work Plan and Job Hazard Assessments for the Ocean Outfall Pipeline and Chamber Inspection effort
- Performed the structural inspection of the Cedar Creek Outfall and the existing Outfall Chamber.

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

##### Bay Park Effluent Diversion Pump Station:

- Anticipate receipt of packages at varying levels of design, including: Bay Park Diversion Structure Support of Excavation; Bay Park Wet Well Support of Excavation; Bay Park Wet Well Liner and Internal Structures; Bay Park Near Surface Structures; and Bay Park Hydraulic Modeling. Anticipate receipt of three (3) RFCD packages.
- Secant installations for wet well.

##### Bay Park Microtunnel:

- Anticipate receipt of packages at varying levels of design, including: Bay Park Microtunnel Drives 2-1, 2-3, 3-4, 5-4, 5-7, 8-7, and 8-9; Bay Park Shafts 2, 3, 4, 5, 7, 8, and 9; and Bay Park Shafts 2, 3, 4, 5, 7, 8, and 9 Support of Excavation. Anticipate receipt of two (2) RFCD packages.
- Commence secants and jet grouting at Shaft BP-1; setup soil mix and install soil mix panels at Shafts BP-2 and BP-3; and continue set up and monitoring of new and or existing instrumentation.

##### Sunrise Highway Sliplining:

- Anticipate receipt of packages at varying levels of design, including: Sunrise Highway Slipline and Pits I, K, L, M, O, P, Q, R, S, T, and W; and Sunrise Highway Slipline and A, B, C, D, E, F, FF, G, GG, H, I, K, L, M, N, O, P, Q, R, S, T, and W Utility Protection and Relocation.
- Continue to inspect and survey Aqueduct along Sunrise Highway; clean and repair Aqueduct from Pit N to Q.

##### Cedar Creek Microtunnel:

- Anticipate receipt of packages at varying levels of design, including: Cedar Creek Shafts 2 and 3 Support of Excavation; and Cedar Creek Shafts 1, 2, and 3 Utility Protection and Relocation. Anticipate receipt of one (1) RFCD package.
- Anticipate continuance of test pitting, fence extensions, and utility relocations at Shafts CC-1 and CC-2. Guide walls to be installed at Shaft CC-2.

Cedar Creek Effluent Pump Station/Receiving Station:

- Anticipate receipt of packages at varying levels of design including Cedar Creek Pump Station Upgrades; Cedar Creek Receiving Station and Wet Tap; and Cedar Creek Outfall Inspection and Cleanout Chamber Cover.
- No construction work planned for Q3 2021.

VIII.0

# Wet Weather Flow Reduction

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

**Table 8 – Wet Weather Flow Reduction Milestones**

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

As shown in Table 8, the next milestone deliverable is more than a year away. The County is continuing to review options on how to procure the planning and design services for these deliverables and will provide an update in the next quarter.

**IX.0**

## **Environmental Benefit Projects**

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The proposed design of the Cedar Creek Kayak Launch has received preliminary approval and a detailed submittal is to be made by the County in Q3 2021.

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

## XI.0

# Community Relations

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During April 2021, the State, County and Design Builder held project briefings with relevant Towns and Villages officials to introduce the Design Builder, Western Bays Constructors (WBC). The first public information session with WBC was held on April 6, where the County and DEC introduced WBC on a public Zoom webinar. Briefings with the Village of Freeport, Village of Rockville Centre, Village of East Rockaway and Town of Hempstead took place on April 1st, 2nd, 5th and 26th respectively. On April 29, a meeting with the East Rockaway School District was held to discuss project updates and potential conflicts between the construction schedule and school events, such as Pre-prom and the Pearl Harbor Day Ceremony. On April 8, the County, along with DEC and WBC, attended and spoke at the Save the Western Bays forum, which constitutes some of the most outspoken supporters of the project. The first monthly meeting with local elected officials and first responders took place on April 27, where government officials and fire marshals were invited to listen in on the project's work progression and ask about information dissemination and public safety measures. The project team continues to respond to public inquiries, release project construction lookaheads, engage in outreach to businesses and residents via canvassing notifications, social media, and e-blasts, and maintain a project website.

### April 2021 Summary:

- Village and Town briefings:
  - 4/1 – Village of Freeport
  - 4/2 – Village of Rockville Centre
  - 4/5 – Village of East Rockaway
  - 4/26 – Town of Hempstead
  - 4/29 – East Rockaway School District
- Public Information Sessions:
  - 4/6 – public information session introducing WBC
- Monthly recurring meetings:
  - 4/27 – first monthly meeting with Elected Officials and First Responders
- Other Appearances:
  - 4/8 – Save the Western Bays forum

On May 5, the County and DEC, along with WBC, held the first monthly meeting with local Stakeholder groups, where local civic associations, chambers of commerce, and homeowner associations were invited to listen in on the project's work progression and raise any public concerns. A second set of monthly meetings with Elected Officials and First Responders and local Stakeholder groups took place on May 25 and 26, respectively. The project team continues to respond to public inquiries, release project construction lookaheads, engage in outreach to businesses and residents via canvassing notifications, social media, and e-blasts, and maintain a project website.

### May 2021 Summary:

- Monthly recurring meetings:
  - 5/5 – monthly meeting with local Stakeholder groups

- 5/25 – monthly meeting with Elected Officials and First Responders
- 5/26 – monthly meeting with local Stakeholder groups

Outreach efforts in June 2021 consisted of monthly meetings with Elected Officials and First Responders, and local Stakeholder groups. These meetings took place on June 29 and 30, respectively. The project team continues to respond to public inquiries, release project construction lookaheads, engage in outreach to businesses and residents via canvassing notifications, social media, and e-blasts, and maintain a project website.

June 2021 Summary:

- Monthly recurring meetings:
  - 6/29 – monthly meeting with Elected Officials and First Responders
  - 6/30 – monthly meeting with local Stakeholder groups



**XII.0**

# **Attachments**

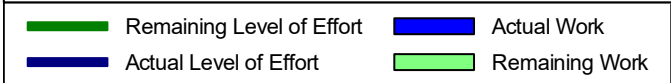
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1. Program Master Schedule

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Bay Park Master Schedule 210630</b>																				
<b>Existing Capital Projects</b>																				
<b>S3B119-05G - Generator Controls</b>																				
<b>Design</b>																				
Design - Generator Controls	74	0	21-Oct-13 A	22-Apr-14 A	100															
<b>Procurement</b>																				
Procurement - Generator Controls	121	0	28-Oct-13 A	25-Feb-14 A	100															
<b>Construction</b>																				
Temp Generators Off-line / Plant Power on H-use Generators	0	0		18-Nov-14 A	100															
Construction - Generator Controls	533	0	15-Nov-13 A	24-Jun-16 A	100															
<b>S3B120-01G - Influent Screening Facility Improvements</b>																				
<b>CM Contract</b>																				
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															
<b>Construction Contract</b>																				
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															
<b>S3B120-02G - Grit Removal Facility Improvements</b>																				
<b>CM Contract</b>																				
RFP / Advertise CM Services - Grit Removal	30	0	07-Oct-13 A	25-Oct-13 A	100															
Award / NTP CM Services - Grit Removal	40	0	26-Oct-13 A	26-May-14 A	100															
<b>Construction Contract</b>																				
75% to 100% Design / Bid Documents - Grit Removal	236	0	06-May-13 A	12-Feb-14 A	100															
County Prepare Bid for Advertisement - Grit Removal	7	0	13-Feb-14 A	23-Feb-14 A	100															
Bid / Advertise - Grit Removal	56	0	24-Feb-14 A	21-Mar-14 A	100															
Bid Opening - Grit Removal	1	0	25-Mar-14 A	25-Mar-14 A	100															
Award / NTP - Grit 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															
<b>S35100-01G - Cleaning &amp; Repair of Digesters &amp; Storage Tanks</b>																				
<b>Construction</b>																				
Construction - Digester Cleaning	720	0	20-May-13 A	16-Apr-15 A	100															
<b>S35114-03G - Sludge Thickening Facility Improvements</b>																				
<b>CM Contract</b>																				
RFP / Advertise CM Services - Sludge Thickening	30	0	21-Aug-13 A	09-Sep-13 A	100															
Award / NTP CM Services - Sludge Thickening	30	0	10-Sep-13 A	25-Mar-14 A	100															
<b>Construction Contract</b>																				
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															
<b>S35116-01G - Odor Control at Bay Park &amp; Cedar Creek</b>																				
<b>CM Contract</b>																				
RFP / Advertise CM Services - Odor Control BP & CC WPCPs	20	0	21-Aug-13 A	09-Sep-13 A	100															
Award / NTP CM Services - Odor Control BP & CC WPCPs	30	0	10-Sep-13 A	10-Mar-14 A	100															
<b>Construction Contract</b>																				
Award / NTP - Odor Control BP & CC WPCPs	64	0	21-Aug-13 A	23-Oct-13 A	100															
Construction - Odor Control BP & CC WPCPs	730	0	28-Oct-13 A	07-Nov-15 A	100															
<b>Hurricane Sandy Projects</b>																				
<b>FEMA Approval Process</b>																				
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	0	12-Aug-13 A	19-Dec-13 A	100															
FEMA 406 HMP Negotiation	90	0	06-Jan-14 A	15-Jan-14 A	100															
FEMA Scope and Cost Negotiation	90	0	20-Dec-13 A	15-Jan-14 A	100															
<b>S35121-01G/E - Final Settling Tank Rehabilitation</b>																				
<b>Construction Contract</b>																				

█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work

Bay Park Master Schedule 210630		Master Schedule Letter					As of 30-Jun-21												
Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Award / NTP - Final Tank Rehabilitation	64	0	21-Aug-13 A	23-Oct-13 A	100	■													
Construction - Final Tank Rehabilitation	730	0	28-Oct-13 A	13-May-16 A	100		■	■	■	■	■	■	■	■	■	■	■	■	■
<b>CM Contract</b>																			
RFP / Advertise CM Services - Final Tank Rehabilitation	30	0	21-Aug-13 A	09-Sep-13 A	100	■													
Award / NTP CM Services - Final Tank Rehabilitation	30	0	10-Sep-13 A	10-Feb-14 A	100	■													
<b>S35121-03G - Raw Sewage Pumping Facility</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - Raw Sewage Pumping Facility	29	0	01-Feb-19 A	01-Mar-19 A	100									■					
Award / NTP CM Services - Raw Sewage Pumping Facility	180	0	02-Mar-19 A	12-Feb-21 A	100								■	■	■	■	■	■	■
<b>Design Process</b>																			
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			■											
Award / NTP Final Design - Raw Sewage Pumping Facility	90	0	30-Mar-15 A	01-Mar-16 A	100				■										
Final Design - Raw Sewage Pumping Facility	210	0	01-Mar-16 A	26-Sep-16 A	100				■	■									
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Raw Sewage Pumping Facility	1	0	01-Feb-19 A	01-Feb-19 A	100									■					
Bid / Advertise - Raw Sewage Pumping Facility	29	0	01-Feb-19 A	08-Mar-19 A	100									■					
Bid Opening - Raw Sewage Pumping Facility	1	0	12-Mar-19 A	12-Mar-19 A	100									■					
Award / NTP - Raw Sewage Pumping Facility	180	0	13-Mar-19 A	12-Jun-20 A	100								■	■	■				
Award / NTP - Raw Sewage Pumping Facility to 2nd Low Bidder	180	0	13-Jun-20 A	03-May-21 A	100								■	■	■				
Construction - Raw Sewage Pumping Facility	899	841	03-May-21 A	18-Oct-23*	6									■	■	■	■	■	■
<b>S35121-09G - Sludge Dewatering</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - Dewatering Demo & Improvement	22	0	04-Apr-14 A	25-Apr-14 A	100		■												
Award / NTP CM Services - Dewatering Demo & Improvement	90	0	29-Apr-14 A	22-Sep-14 A	100		■												
<b>Design Process</b>																			
Finalize Technical Memorandum - Dewatering	45	0	12-Aug-13 A	22-Nov-13 A	100	■													
Preliminary Design - Dewatering	85	0	26-Sep-13 A	31-Dec-13 A	100	■	■												
RFP / Advertise Final Design - Dewatering	16	0	10-Jan-14 A	07-Feb-14 A	100			■											
Award / NTP Final Design - Dewatering	80	0	08-Feb-14 A	07-Jul-14 A	100			■											
Final Design - Dewatering	200	0	07-Jul-14 A	03-Apr-15 A	100				■	■									
<b>Centrifuge Pilot Testing</b>																			
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														
Andritz Centrifuge Pilot	5	0	07-Jul-14 A	11-Jul-14 A	100														
Flottweg Centrifuge Pilot	5	0	14-Jul-14 A	18-Jul-14 A	100														
Centrisys Centrifuge Pilot	5	0	21-Jul-14 A	25-Jul-14 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Dewatering	7	0	03-Apr-15 A	09-Apr-15 A	100														
Bid / Advertise - Dewatering	29	0	10-Apr-15 A	15-May-15 A	100														
Bid Opening - Dewatering	1	0	19-May-15 A	19-May-15 A	100														
Award / NTP - Dewatering	90	0	20-May-15 A	07-Dec-15 A	100														
Construction - Dewatering	913	0	07-Dec-15 A	21-May-19 A	100														
<b>S35121-09R - Sludge Dewatering Demolition</b>																			
<b>Design Process</b>																			
100% Design - Dewatering Demolition	89	0	02-Jan-14 A	31-Mar-14 A	100	■													
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Dewatering Demolition	7	0	01-Apr-14 A	03-Apr-14 A	100														
Bid / Advertise - Dewatering Demolition	29	0	04-Apr-14 A	09-May-14 A	100														
Bid Opening - Dewatering Demolition	1	0	13-May-14 A	13-May-14 A	100														
Award / NTP - Dewatering Demolition	90	0	14-May-14 A	22-Sep-14 A	100														
Construction - Dewatering Demolition	180	0	22-Sep-14 A	20-Mar-15 A	100														
<b>S35121-11G - Effluent Screening &amp; Disinfection</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - Effluent Screening & Disinfection	29	0	01-Feb-19 A	01-Mar-19 A	100									■					



Bay Park Master Schedule 210630						Master Schedule Letter												As of 30-Jun-21	
Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Award / NTP CM Services - Effluent Screening & Disinfection	180	0	02-Mar-19 A	27-Oct-20 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Design Process</b>																			
Finalize Technical Memorandum - Effluent Screening & Disinfection	45	0	15-Nov-13 A	13-Feb-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Prepare Design RFP - Effluent Screening & Disinfection	85	0	30-Dec-13 A	29-Jan-16 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
RFP / Advertise Final Design - Effluent Screening & Disinfection	29	0	29-Jan-16 A	26-Feb-16 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Award / NTP Final Design - Effluent Screening & Disinfection	90	0	06-May-16 A	09-Jan-17 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Final Design - Effluent Screening & Disinfection	300	0	09-Jan-17 A	05-Jan-18 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Effluent Screening & Disinfection	7	0	01-Jul-18 A	07-Jul-18 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Bid / Advertise - Effluent Screening & Disinfection	29	0	13-Jul-18 A	10-Aug-18 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Bid Opening - Effluent Screening & Disinfection	1	0	14-Aug-18 A	14-Aug-18 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Award / NTP - Effluent Screening & Disinfection	180	0	15-Aug-18 A	04-Nov-20 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Construction - Effluent Screening & Disinfection	784	496	04-Nov-20 A	07-Nov-22*	37	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>S35121-12G - Effluent Pumping Facility Improvements</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - Effluent Tide PB	29	0	01-May-15 A	29-May-15 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Award / NTP CM Services - Effluent Tide PB	90	0	30-May-15 A	24-Aug-17 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Design Process</b>																			
Finalize Technical Memorandum - Effluent Tide PB	45	0	12-Aug-13 A	22-Nov-13 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Preliminary Design - Effluent Tide PB	85	0	26-Sep-13 A	27-Feb-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
RFP / Advertise Final Design - Effluent Tide PB	30	0	28-Feb-14 A	28-Mar-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Award / NTP Final Design - Effluent Tide PB	90	0	31-Mar-14 A	08-Dec-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Final Design - Effluent Tide PB	210	0	08-Dec-14 A	07-Jul-15 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Effluent Tide PB	7	0	08-Jul-15 A	14-Jul-15 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Bid / Advertise - Effluent Tide PB	29	0	31-Jul-15 A	11-Sep-15 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Bid Opening - Effluent Tide PB	1	0	15-Sep-15 A	15-Sep-15 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Award / NTP - Effluent Tide PB	90	0	16-Sep-15 A	24-Aug-17 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Construction - Effluent Pumping Facility Improvements	820	0	24-Aug-17 A	05-May-20 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>S35121-13E - Phase E1 Electrical Distribution Systems Improvements</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - Phase E1 EDS	30	0	02-Jan-14 A	24-Jan-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Award / NTP CM Services - Phase E1 EDS	90	0	25-Jan-14 A	07-Jul-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Design Process</b>																			
Phase E1 Design	119	0	15-Aug-13 A	11-Dec-13 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Finalize Technical Memorandum - Phase 1 EDS	45	0	12-Aug-13 A	03-Jan-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Phase E1 EDS	7	0	12-Dec-13 A	19-Dec-13 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Bid / Advertise - Phase E1 EDS	30	0	20-Dec-13 A	31-Jan-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Bid Opening - Phase E1 EDS	1	0	06-Feb-14 A	06-Feb-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Award / NTP - Phase E1 EDS	76	0	07-Feb-14 A	27-May-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Construction - Phase E1 EDS	670	0	27-May-14 A	19-Oct-16 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>S35121-14E - Phase E2 Unit Substation No. 2 &amp; Electrical Distribution</b>																			
<b>Design Process</b>																			
Phase E2 Design - EDS - USS No. 2	155	0	04-Apr-14 A	18-Aug-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - EDS Phase E2 - USS No. 2	7	0	21-Aug-14 A	27-Aug-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Bid / Advertise - EDS Phase E2 - USS No. 2	29	0	29-Aug-14 A	10-Oct-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Bid Opening - EDS Phase E2 - USS No. 2	1	0	14-Oct-14 A	14-Oct-14 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Award / NTP - EDS Phase E2 - USS No. 2	90	0	15-Oct-14 A	11-May-15 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Construction - Phase E2 - USS No. 2	660	0	11-May-15 A	29-Sep-17 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>S35121-14F - Phase E3 Main Substation &amp; Electrical Distribution</b>																			
<b>Design Process</b>																			
Phase E3 Design - EDS - Main Substation	285	0	01-Apr-14 A	09-Feb-15 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - EDS Phase E3 - MSS	7	0	10-Feb-15 A	12-Feb-15 A	100	■	■	■	■	■	■	■	■	■	■	■	■	■	■

■ Remaining Level of Effort    ■ Actual Work  
■ Actual Level of Effort    ■ Remaining Work

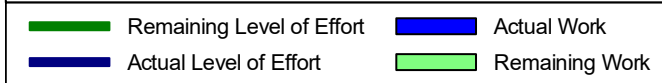


Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Final Design - Heating Hot Water Piping Permanent System	196	56	16-Sep-20 A	24-Aug-21	71														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Heating Hot Water Piping Permanent	7	7	25-Aug-21	31-Aug-21	0														
Bid / Advertise - Heating Hot Water Piping Permanent System	29	29	03-Sep-21	01-Oct-21	0														
Bid Opening - Heating Hot Water Piping Permanent System	1	1	05-Oct-21	05-Oct-21	0														
Award / NTP - Heating Hot Water Piping Permanent System	180	180	06-Oct-21	03-Apr-22	0														
Construction - Heating Hot Water Piping Permanent System	730	730	03-Apr-22	01-Apr-24*	0														
<b>S35121-16TR - Vehicle Fueling &amp; Tanks Reconstruction</b>																			
<b>Design Process</b>																			
Design - Vehicle Fueling	53	0	10-Mar-14 A	02-May-14 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Vehicle Fueling	7	0	02-May-14 A	08-May-14 A	100														
Bid / Advertise - Vehicle Fueling	29	0	09-May-14 A	06-Jun-14 A	100														
Bid Opening - Vehicle Fueling	1	0	10-Jun-14 A	10-Jun-14 A	100														
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														
<b>S35121-16V - Dechlorination Vault Storm Mitigation</b>																			
<b>Design Process</b>																			
Design - Dechlor Sample Vault Hardening	180	0	27-Mar-15 A	22-Oct-15 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Dechlor Sample Vault Hardening	7	0	23-Oct-15 A	29-Oct-15 A	100														
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														
Award / NTP - Dechlor Sample Vault Hardening	90	0	12-Dec-15 A	11-May-16 A	100														
Construction - Dechlor Sample Vault Hardening	270	0	11-May-16 A	11-Aug-17 A	100														
<b>S35121-17G - Perimeter Flood Protection</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - Perimeter Flood Protection	30	0	10-Jan-14 A	07-Feb-14 A	100														
Award / NTP CM Services - Perimeter Flood Protection	90	0	08-Feb-14 A	30-Jun-14 A	100														
<b>Design Process</b>																			
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														
Finalize Technical Memorandum - Perimeter Flood Protection	45	0	12-Aug-13 A	17-Dec-13 A	100														
Public Review/Comment Period	30	0	17-Dec-13 A	16-Jan-14 A	100														
<b>Bid / Construction</b>																			
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	24-Jan-14 A	14-Mar-14 A	100														
Bid Opening - Perimeter Flood Protection	1	0	18-Mar-14 A	18-Mar-14 A	100														
Award / NTP - Perimeter Flood Protection	76	0	19-Mar-14 A	27-May-14 A	100														
Eastern Park Open	0	0		07-Oct-15 A	100														
Construction - Perimeter Flood Protection	740	0	27-May-14 A	09-Jun-17 A	100														
<b>S35121-18G - Flood Protection Phase 1 Stormwater Pumping Stations</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - Flood Protection Phase 1 Stormwater PS	29	0	31-Jul-15 A	28-Aug-15 A	100														
Award / NTP CM Services - Flood Protection Phase 1 Stormwater PS	90	0	29-Aug-15 A	17-Jun-16 A	100														
<b>Design Process</b>																			
Preliminary Design Flood Protection Phase 1 Stormwater PS	97	0	18-Dec-13 A	17-Apr-14 A	100														
RFP / Advertise Final Design Flood Protection Phase 1 Stormwater PS	29	0	18-Apr-14 A	16-May-14 A	100														
Award / NTP Final Design Flood Protection Phase 1 Stormwater PS	90	0	17-May-14 A	10-Nov-14 A	100														
Final Design Flood Protection Phase 1 Stormwater PS	210	0	10-Nov-14 A	28-Aug-15 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Flood Protection Phase 1 Stormwater	7	0	28-Aug-15 A	03-Sep-15 A	100														
Bid / Advertise - Flood Protection Phase 1 Stormwater PS	29	0	04-Sep-15 A	02-Oct-15 A	100														

■ Remaining Level of Effort    ■ Actual Work  
■ Actual Level of Effort    ■ Remaining Work



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Bid Opening - Flood Protection Phase 1 Stormwater PS	1	0	06-Oct-15 A	06-Oct-15 A	100														
Award / NTP - Flood Protection Phase 1 Stormwater PS	90	0	30-Sep-15 A	31-May-16 A	100														
Construction - Flood Protection Phase 1 Stormwater PS	760	0	31-May-16 A	24-Jun-19 A	100														
<b>S35121-18S - Flood Protection Phase 2 Stormwater Green Infrastructure</b>																			
<b>Design Process</b>																			
Preliminary Design - Flood Protection Phase 2 Stormwater GI	96	0	31-Jan-16 A	26-May-16 A	100														
RFP / Advetise - Final Design Flood Protection Phase 2 Stormwater GI	29	0	27-May-16 A	24-Jun-16 A	100														
<b>S35123-L37 - Miscellaneous Storm Repairs, Mitigation &amp; Site Restoration</b>																			
<b>CM Contract</b>																			
RFP / Advetise CM Services - Misc Storm Repairs, Mitigation & Restoration	29	29	17-Nov-22	15-Dec-22	0														
Award / NTP CM Services - Misc Storm Repairs, Mitigation & Restoration	180	180	16-Dec-22	13-Jun-23	0														
<b>Design Process</b>																			
Conceptual Design - Misc Storm Repairs, Mitigation & Site Restoration	90	76	05-Jul-19 A	13-Sep-21	16														
RFP / Advetise - Final Design - Misc Storm Repairs, Mitigation & Site Restoration	29	29	14-Sep-21	12-Oct-21	0														
Award / NTP Final Design - Misc Storm Repairs, Mitigation & Site Restoration	180	180	13-Oct-21	10-Apr-22	0														
Final Design - Misc Storm Repairs, Mitigation & Site Restoration	270	270	11-Apr-22	05-Jan-23	0														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Misc Storm Repairs, Mitigation & Site	7	7	06-Jan-23	12-Jan-23	0														
Bid / Advetise - Misc Storm Repairs, Mitigation & Site Restoration	29	29	13-Jan-23	10-Feb-23	0														
Bid Opening - Misc Storm Repairs, Mitigation & Site Restoration	1	1	14-Feb-23	14-Feb-23	0														
Award / NTP - Misc Storm Repairs, Mitigation & Site Restoration	180	180	15-Feb-23	13-Aug-23	0														
Construction - Misc Storm Repairs, Mitigation & Site Restoration	731	731	13-Aug-23	12-Aug-25*	0														
<b>S3B119-06G - Bay Park STP Heating Hot Water Piping Temporary System</b>																			
<b>Design Process</b>																			
Final Design - Heating Hot Water Piping Temporary System	90	0	01-May-15 A	17-Jun-15 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Heating Hot Water Piping Temporary	7	0	12-Jun-15 A	18-Jun-15 A	100														
Bid / Advetise - 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														
Award / NTP - Heating Hot Water Piping Temporary System	13	0	01-Jul-15 A	13-Jul-15 A	100														
Construction - Heating Hot Water Piping Temporary System	124	0	13-Jul-15 A	04-Aug-16 A	100														
<b>S35121-06G - Aeration Blower Facility</b>																			
<b>CM Contract</b>																			
RFP / Advetise CM Services - Aeration Blower Facility	29	29	20-Oct-22	17-Nov-22	0														
Award / NTP CM Services - Aeration Blower Facility	180	180	18-Nov-22	16-May-23	0														
<b>Design Process</b>																			
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														
RFP / Advetise - Final Design - Aeration Blower Facility	29	29	13-Sep-21*	11-Oct-21	0														
Award / NTP Final Design - Aeration Blower Facility	180	180	12-Oct-21	09-Apr-22	0														
Final Design - Aeration Blower Facility	240	240	10-Apr-22	05-Dec-22	0														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Aeration Blower Facility	7	7	06-Dec-22	12-Dec-22	0														
Bid / Advetise - Aeration Blower Facility	29	29	16-Dec-22	13-Jan-23	0														
Bid Opening - Aeration Blower Facility	1	1	17-Jan-23	17-Jan-23	0														
Award / NTP - Aeration Blower Facility	180	180	18-Jan-23	16-Jul-23	0														
Construction - Aeration Blower Facility	1095	1095	16-Jul-23	14-Jul-26*	0														
<b>S35123-L38H - Contaminated Soil Hauling &amp; Disposal</b>																			
<b>Design Process</b>																			
Prepare Design Documents - Contaminated Soil Hauling & Disposal	270	0	26-Oct-20 A	07-Jan-21 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Contaminated Soil Hauling & Disposal	7	0	08-Jan-21 A	14-Jan-21 A	100														
Bid / Advetise - 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														
Award / NTP - Contaminated Soil Hauling & Disposal	180	47	17-Feb-21 A	15-Aug-21	74														
Construction - Contaminated Soil Hauling & Disposal	90	90	15-Aug-21	12-Nov-21*	0														



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026		
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>S3P311 - Pump Stations</b>																					
<b>S3P311-01G - Dock Place &amp; Southland Drive</b>																					
<b>Construction</b>																					
Construction - Dock Place & Southland Drive Pump Stations	240	0	28-Oct-13 A	31-Oct-14 A	100																
<b>S3P311-02G - Cedar, Roosevelt, Whitewood, Biltmore &amp; Alhambra</b>																					
<b>Design Process</b>																					
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																
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																
<b>Bid / Construction</b>																					
County Prepare Bid for Advertisement - Pump Station 2	7	0	27-Mar-15 A	09-Apr-15 A	100																
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																
<b>S3P311-03G - Wantagh, Newbridge, Merrick &amp; Ray</b>																					
<b>Design Process</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																
<b>Bid / Construction</b>																					
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																
<b>S3P311-02M - PS2 &amp; PS3 Construction Management</b>																					
<b>CM Contract</b>																					
RFP / Advertise CM Services - PS2 & PS3	29	0	03-Oct-14 A	31-Oct-14 A	100																
Award / NTP CM Services - PS2 & PS3	90	0	01-Nov-14 A	03-Mar-16 A	100																
<b>S3P311-04G - Felix, Fox, Northern &amp; Grand</b>																					
<b>Design Process</b>																					
Finalize Technical Memorandum - Pump Station 4	140	0	12-Aug-13 A	22-Nov-13 A	100																
Preliminary Design - Pump Station 4	67	0	23-Dec-13 A	27-Feb-14 A	100																
RFP / Advertise Final Design - Pump Station 4	30	0	28-Feb-14 A	28-Mar-14 A	100																
Award / NTP Final Design - Pump Station 4	90	0	30-Mar-14 A	17-Sep-14 A	100																
Final Design - Pump Station 4	90	0	17-Sep-14 A	13-Mar-15 A	100																
<b>Bid / Construction</b>																					
County Prepare Bid for Advertisement - Pump Station 4	7	0	13-Mar-15 A	19-Mar-15 A	100																
Bid / Advertise - Pump Station 4	29	0	20-Mar-15 A	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	22-Apr-15 A	15-Nov-15 A	100																
Construction - Pump Station 4	420	0	16-Nov-15 A	29-Aug-17 A	100																
<b>S3P311-05G - Millar, Mott, Long Beach, Royal &amp; Lido</b>																					
<b>Design Process</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	23-Jan-14 A	27-Mar-14 A	100																
RFP / Advertise Final Design - Pump Station 5	30	0	28-Mar-14 A	25-Apr-14 A	100																
Award / NTP Final Design - Pump Station 5	94	0	26-Apr-14 A	01-Dec-14 A	100																
Final Design - Pump Station 5	90	0	01-Dec-14 A	01-May-15 A	100																
<b>Bid / Construction</b>																					
County Prepare Bid for Advertisement - Pump Station 5	7	0	02-May-15 A	21-May-15 A	100																

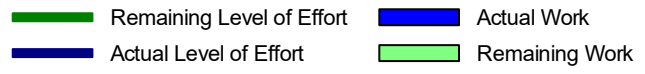
█ Remaining Level of Effort    █ Actual Work  
█ Actual Level of Effort    █ Remaining Work



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Bid / Advertise - Pump Station 5	29	0	22-May-15 A	19-Jun-15 A	100														
Bid Opening - Pump Station 5	1	0	23-Jun-15 A	23-Jun-15 A	100														
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														
<b>S3P311-04M - PS4 &amp; PS5 Construction Management</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - PS4 & PS5	29	0	07-Nov-14 A	05-Jan-15 A	100														
Award / NTP CM Services - PS4 & PS5	90	0	06-Jan-15 A	16-Nov-15 A	100														
<b>S3P311-06G - Ocean, Mill, Woodmere &amp; Longacre</b>																			
<b>Design Process</b>																			
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														
RFP / Advertise Final Design - Pump Station 6	29	0	09-May-14 A	30-May-14 A	100														
Award / NTP Final Design - Pump Station 6	90	0	31-May-14 A	15-Apr-15 A	100														
Final Design - Pump Station 6	90	0	15-Apr-15 A	17-Sep-15 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Pump Station 6	7	0	18-Sep-15 A	24-Sep-15 A	100														
Bid / Advertise - Pump Station 6	29	0	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	28-Oct-15 A	15-Mar-17 A	100														
Construction - Pump Station 6	550	0	15-Mar-17 A	17-Aug-18 A	100														
<b>S3P311-07G - Inwood, Doughty, Bayview &amp; Roslyn</b>																			
<b>Design Process</b>																			
Finalize Technical Memorandum - Pump Station 7	140	0	12-Aug-13 A	22-Nov-13 A	100														
Preliminary Design - Pump Station 7	67	0	23-Mar-14 A	28-May-14 A	100														
RFP / Advertise Final Design - Pump Station 7	29	0	30-May-14 A	27-Jun-14 A	100														
Award / NTP Final Design - Pump Station 7	90	0	28-Jun-14 A	13-May-15 A	100														
Final Design - Pump Station 7	90	0	13-May-15 A	16-Nov-15 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Pump Station 7	7	0	16-Nov-15 A	19-Nov-15 A	100														
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														
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														
<b>S3P311-06M - PS6 &amp; PS7 Construction Management</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - PS6, PS7 & PS8	29	0	22-May-15 A	19-Jun-15 A	100														
Award / NTP CM Services - PS6, PS7 & PS8	90	0	20-Jun-15 A	15-Mar-17 A	100														
<b>S3P311-08G - East Avenue</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - East Avenue Pump Station	29	0	08-Mar-19 A	05-Apr-19 A	100														
Award / NTP CM Services - East Avenue Pump Station	180	0	06-Apr-19 A	27-Oct-20 A	100														
<b>Design Process</b>																			
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	15-Jul-16 A	12-Aug-16 A	100														
Award / NTP Final Design - Pump Station 8	90	0	13-Aug-16 A	29-Mar-17 A	100														
Final Design - East Avenue Pump Station	270	0	29-Mar-17 A	23-Dec-17 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - East Avenue Pump Station	7	0	24-Dec-17 A	07-Mar-19 A	100														
Bid / Advertise - East Avenue Pump Station	29	0	08-Mar-19 A	05-Apr-19 A	100														
Bid Opening - East Avenue Pump Station	1	0	09-Apr-19 A	09-Apr-19 A	100														
Award / NTP - East Avenue Pump Station	180	0	09-Apr-19 A	02-Nov-20 A	100														
Construction - East Avenue Pump Station	540	226	02-Nov-20 A	10-Feb-22*	58														
<b>S3P311-09G - Hempstead Wastewater Pumping Station</b>																			
<b>Design Process</b>																			
RFP / Advertise Final Design - Hempstead Wastewater Pumping Station	29	0	22-Nov-13 A	20-Dec-13 A	100														

█ Remaining Level of Effort   
 █ Actual Work  
█ Actual Level of Effort   
 █ Remaining Work





Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026																							
						Q	A	S	O	N	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Award / NTP Final Design - Hempstead Wastewater Pumping Station	90	0	21-Dec-13 A	29-May-14 A	100																								
Final Design - Hempstead Wastewater Pumping Station	185	0	18-Jun-14 A	24-Jun-15 A	100																								
<b>Bid / Construction</b>																													
County Prepare Bid for Advertisement - Hempstead Wastewater Pumping Station	7	0	25-Jun-15 A	30-Jun-15 A	100																								
Bid / Advertise - Hempstead Wastewater Pumping Station	29	0	03-Jul-15 A	14-Aug-15 A	100																								
Bid Opening - Hempstead Wastewater Pumping Station	1	0	18-Aug-15 A	18-Aug-15 A	100																								
Award / NTP - Hempstead Wastewater Pumping Station	90	0	19-Aug-15 A	25-Apr-16 A	100																								
Construction - Hempstead Wastewater Pumping Station	460	0	25-Apr-16 A	22-Nov-19 A	100																								
<b>S3P311-09S - Hempstead Wastewater Force Main</b>																													
<b>Design Process</b>																													
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	21-Dec-13 A	29-May-14 A	100																								
Final Design - Hempstead Wastewater Force Main	185	0	18-Jun-14 A	24-Jun-15 A	100																								
<b>Bid / Construction</b>																													
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	03-Jul-15 A	14-Aug-15 A	100																								
Bid Opening - Hempstead Wastewater Force Main	1	0	18-Aug-15 A	18-Aug-15 A	100																								
Award / NTP - Hempstead Wastewater Force Main	90	0	19-Aug-15 A	25-Apr-16 A	100																								
Construction - Hempstead Wastewater Force Main	450	0	25-Apr-16 A	01-May-19 A	100																								
<b>S3P311-09M - Hempstead Wastewater Pumping Station &amp; Force Main CM</b>																													
<b>CM Contract</b>																													
RFP / Advertise CM Services - Hempstead Wastewater Pump Sta & FM	29	0	17-Oct-14 A	14-Nov-14 A	100																								
Award / NTP CM Services - Hempstead Wastewater Pump Sta & FM	90	0	15-Nov-14 A	01-Feb-16 A	100																								
<b>S3P311-10G - Lawrence PS (STP) &amp; Sage Lake PS</b>																													
<b>CM Contract</b>																													
RFP / Advertise CM Services - Lawrence STP & Sage Lake PS	28	0	25-Jan-16 A	22-Feb-16 A	100																								
Award / NTP CM Services - Lawrence STP & Sage Lake PS	90	0	23-Feb-16 A	22-Mar-17 A	100																								
<b>Design Process</b>																													
Preliminary Design - Lawrence STP & Sage Lake PS	75	0	02-Jun-14 A	12-Sep-14 A	100																								
RFP / Advertise Final Design - Lawrence STP & Sage Lake PS	29	0	12-Sep-14 A	10-Oct-14 A	100																								
Award / NTP Final Design - Lawrence STP & Sage Lake PS	61	0	11-Oct-14 A	15-Sep-15 A	100																								
Final Design - Lawrence STP & Sage Lake PS	180	0	15-Sep-15 A	08-Mar-16 A	100																								
<b>Bid / Construction</b>																													
County Prepare Bid for Advertisement - Lawrence STP & Sage Lake PS	7	0	09-Apr-16 A	14-Apr-16 A	100																								
Bid / Advertise - Lawrence STP & Sage Lake PS	29	0	15-Apr-16 A	13-May-16 A	100																								
Bid Opening - Lawrence STP & Sage Lake PS	1	0	17-May-16 A	17-May-16 A	100																								
Award / NTP - Lawrence STP & Sage Lake PS	90	0	18-May-16 A	22-Mar-17 A	100																								
Construction - Lawrence STP & Sage Lake PS	550	0	22-Mar-17 A	13-Aug-18 A	100																								
<b>S3P311-11G - Roslyn Village, Morgan Park &amp; Shore Road</b>																													
<b>CM Contract</b>																													
RFP / Advertise CM Services - Roslyn Village, Morgan Park & Shore Rd	47	0	05-Oct-18 A	02-Nov-18 A	100																								
Award / NTP CM Services - Roslyn Village, Morgan Park & Shore Rd	180	0	03-Nov-18 A	01-Dec-20 A	100																								
<b>Design Process</b>																													
Preliminary Design - Roslyn Village, Morgan Park & Shore Rd	75	0	01-Mar-16 A	16-Jun-16 A	100																								
RFP / Advertise Final Design - Roslyn Village, Morgan Park & Shore Rd	29	0	17-Jun-16 A	15-Jul-16 A	100																								
Award / NTP Final Design - Roslyn Village, Morgan Park & Shore Rd	60	0	16-Jul-16 A	02-Feb-17 A	100																								
Final Design - Roslyn Village, Morgan Park & Shore Rd	154	0	02-Feb-17 A	02-Aug-17 A	100																								
<b>Bid / Construction</b>																													
County Prepare Bid for Advertisement - Roslyn Village, Morgan Park & Shore	7	0	13-Oct-17 A	09-Nov-17 A	100																								
Bid / Advertise - Roslyn Village, Morgan Park & Shore Rd	29	0	10-Nov-17 A	08-Dec-17 A	100																								
Bid Opening - Roslyn Village, Morgan Park & Shore Rd	1	0	12-Dec-17 A	12-Dec-17 A	100																								
Award / NTP - Roslyn Village, Morgan Park & Shore Rd	90	0	13-Dec-17 A	01-Dec-20 A	100																								
Construction - Roslyn Village, Morgan Park & Shore Rd	365	148	01-Dec-20 A	24-Nov-21*	59																								
<b>S80019-03GR - Cedar Point Lake (Doxey Brook) Pump Station</b>																													
<b>CM Contract</b>																													
RFP / Advertise CM Services - Cedar Point Lake PS	29	0	01-Dec-16 A	23-Dec-16 A	100																								



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Award / NTP CM Services - Cedar Point Lake PS	90	0	24-Dec-16 A	03-Jan-18 A	100														
<b>Design Process</b>																			
Final Design - Cedar Point Lake PS	180	0	10-Feb-16 A	28-Oct-16 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Cedar Point Lake PS	7	0	29-Oct-16 A	01-Dec-16 A	100														
Bid / Advertise - Cedar Point Lake PS	29	0	02-Dec-16 A	06-Jan-17 A	100														
Bid Opening - Cedar Point Lake PS	1	0	10-Jan-17 A	10-Jan-17 A	100														
Award / NTP - Cedar Point Lake PS	90	0	11-Jan-17 A	03-Jan-18 A	100														
Construction - Cedar Point Lake PS	540	0	03-Jan-18 A	20-Dec-19 A	100														
<b>Nitrogen Reduction Projects</b>																			
<b>S35123-L38G - Sidestream Deammonification</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - Sidestream Centrate Treatment	29	0	28-Jul-17 A	25-Aug-17 A	100														
Award / NTP CM Services - Sidestream Centrate Treatment	90	0	26-Aug-17 A	16-Dec-19 A	100														
<b>RFP Process</b>																			
Develop / Issue RFI - Sidestream Centrate Treatment	60	0	30-Sep-14 A	26-May-15 A	100														
RFI Response Period - Sidestream Centrate Treatment	41	0	26-May-15 A	07-Aug-15 A	100														
RFI Evaluation Period - Sidestream Centrate Treatment	88	0	08-Aug-15 A	29-Feb-16 A	100														
NCDPW Review & Award Sidestream Centrate Treatment	120	0	01-Mar-16 A	26-Sep-16 A	100														
<b>Design Process</b>																			
Complete Technical Design Report	60	0	27-Sep-16 A	26-Nov-16 A	100														
Detailed Design - Sidestream Centrate Treatment	275	0	27-Sep-16 A	31-Oct-17 A	100														
<b>Bid / Construction</b>																			
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														
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														
Award / NTP - Sidestream Centrate Treatment	180	0	26-Sep-18 A	31-Dec-19 A	100														
Construction - Sidestream Centrate Treatment	730	296	31-Dec-19 A	21-Apr-22*	59														
<b>S35123-L39G - Level 1 BNR Improvements</b>																			
<b>CM Contract</b>																			
RFP / Advertise CM Services - Level 1 BNR Improvements	31	0	29-Jul-16 A	26-Aug-16 A	100														
Award / NTP CM Services - Level 1 BNR Improvements	90	0	27-Aug-16 A	05-Jul-17 A	100														
<b>Design Process</b>																			
Design - Level 1 BNR Improvements	120	0	30-Nov-15 A	23-Sep-16 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Level 1 BNR Improvements	7	0	24-Sep-16 A	29-Sep-16 A	100														
Bid / Advertise - Level 1 BNR Improvements	29	0	30-Sep-16 A	11-Nov-16 A	100														
Bid Opening - Level 1 BNR Improvements	1	0	15-Nov-16 A	15-Nov-16 A	100														
Award / NTP - Level 1 BNR Improvements	90	0	16-Nov-16 A	05-Jul-17 A	100														
Construction - Level 1 BNR Improvements (Substantial Completion)	913	0	05-Jul-17 A	30-Apr-20 A	100														
Construction - Cyberprop Change Order	365	93	01-May-20 A	30-Sep-21*	75														
<b>Long Beach WPCP Consolidation</b>																			
<b>S35109-01GR - Long Beach Pump Station</b>																			
<b>Design Process</b>																			
Pump Station Final Design - Long Beach Pump Station (PMJV)	186	0	06-May-19 A	21-Jul-20 A	100														
<b>Bid / Construction</b>																			
County Prepare Bid for Advertisement - Long Beach Pump Station	7	0	22-Jul-20 A	30-Jul-20 A	100														
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														
Award / NTP - Long Beach Pump Station - Canceled	205	0	28-Oct-20 A	20-Apr-21 A	100														
Redesign - Long Beach Pump Station	7	93	21-Apr-21 A	30-Sep-21	0														
County Prepare Bid for Advertisement - Long Beach Pump Station	7	7	01-Oct-21	07-Oct-21	0														
Bid / Advertise - Long Beach Pump Station	29	29	08-Oct-21	05-Nov-21	0														

█ Remaining Level of Effort   
 █ Actual Work  
█ Actual Level of Effort   
 █ Remaining Work

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Bid Opening - Long Beach Pump Station	1	1	09-Nov-21	09-Nov-21	0															
Award / NTP - Long Beach Pump Station	168	168	10-Nov-21	26-Apr-22	0															
Construction - Long Beach Pump Station	862	862	27-Apr-22	04-Sep-24*	0															
<b>S35109-01S - Long Beach HDD Force Main</b>																				
<b>Design Process</b>																				
HDD Final Design - Long Beach HDD Force Main (PMJV)	186	148	06-May-19 A	24-Nov-21	20															
<b>Bid / Construction</b>																				
County Prepare Bid for Advertisement - Long Beach HDD Force Main	8	8	25-Nov-21	02-Dec-21	0															
Bid / Advertise - Long Beach HDD Force Main	29	29	03-Dec-21	31-Dec-21	0															
Bid Opening - Long Beach HDD Force Main	1	1	04-Jan-22	04-Jan-22	0															
Award / NTP - Long Beach HDD Force Main	182	182	05-Jan-22	05-Jul-22	0															
Construction - Long Beach HDD Force Main	792	792	06-Jul-22	04-Sep-24*	0															
<b>S35109-01M - Long Beach Consolidation CM Contract</b>																				
RFP / Advertise CM Services - Long Beach Consolidation	29	0	12-Jun-20 A	10-Jul-20 A	100															
Award / NTP CM Services - Long Beach Consolidation	180	245	11-Jul-20 A	01-Mar-22	0															
<b>S35109-02G - Austin Boulevard Force Main</b>																				
<b>Design Process</b>																				
Prepare RFP - Austin Boulevard Force Main Design	7	0	05-Feb-16 A	10-Feb-16 A	100															
Issue RFP for On-Call Final Design - Austin Boulevard Force Main	15	0	11-Feb-16 A	26-Feb-16 A	100															
Award / NTP Final Design - Austin Boulevard Fore Main Design	14	0	27-Feb-16 A	01-Jun-16 A	100															
Design - Austin Boulevard Force Main	310	0	01-Jun-16 A	07-Sep-18 A	100															
<b>Bid / Construction</b>																				
County Prepare Bid for Advertisement - Austin Boulevard Force Main	7	0	08-Sep-18 A	13-Sep-18 A	100															
Bid / Advertise - Austin Boulevard Force Main	29	0	14-Sep-18 A	09-Nov-18 A	100															
Bid Opening - Austin Boulevard Force Main	1	0	13-Nov-18 A	13-Nov-18 A	100															
<b>Milestones</b>																				
Program Management Award	0	0	12-Aug-13 A		100															
Program Management Complete	0	0		14-Jul-26	0															

 Remaining Level of Effort	 Actual Work
 Actual Level of Effort	 Remaining Work

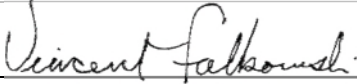


## XIII.0

## 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	S35121-11G
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	S35121-16G
Stormwater Pump Stations	Flood Protection Phase I – Stormwater Pumping Stations	S35121-18G
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
		7/28/2021
Signature		Date Signed