

July 28, 2020

Director, Bureau of Water Compliance
Attention: Edward Hampston
New York State Department of Environmental Conservation
625 Broadway, 4th Floor
Albany, NY 12233-3506

Agreement DEC Index No: CO 1-20170626-244

Bay Park Sewage Treatment Plant
2020 Q2 Quarterly Report

Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of April 1, 2020 through June 30, 2020.

Very truly yours,



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

c:	NCDPW <i>Kenneth Arnold</i> <i>Edward Visone</i> <i>Jane Houdek</i> <i>Karen Fay</i> <i>Elisa Picca</i>	Hazen and Sawyer <i>Mark Hanson</i> <i>Paul Saurer</i> <i>Eric Mills</i> <i>Tom Zakrzewski</i>	ARCADIS <i>Peter Glus</i> <i>Greg Bazydola</i> <i>Maryanne Dioquino</i>	DEC <i>Cathy Haas</i> <i>Katie French</i> <i>Paul Harding</i> <i>Brian Lee</i> <i>Josh Lin</i> <i>Ryan Waldman</i>
-----------	---	---	---	---

DEC Agreement Q2 2020 Report



TABLE OF CONTENTS

I.0 Executive Summary	3
II.0 Modification Request and Force Majeure Status	4
III.0 Notice of Violation Status	5
IV.0 Design Milestone Status	6
V.0 Construction Milestone Status	7
VI.0 Inter Municipal Agreement.....	14
VII.0 Nitrogen Interim Limit Schedule of Compliance	15
VIII.0 Diversion Project.....	16
IX.0 Environmental Benefit Projects	17
X.0 Certification of Completed Activities	18
XI.0 Community Relations	19
XII.0 Attachments	20
XIII.0 Project Glossary	21

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 salt water 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 VI, Paragraphs A-C of the Agreement the DPW hereby submits to the New York State Department of Environmental Conservation (DEC) the Quarterly Report for the period of April 1, 2020 through June 30, 2020.

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

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.

Pursuant to Section VI, Paragraph A of the Agreement, “The County (for work not performed by the State or its contractor) 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 Agreement during the previous three-month period”. The Agreement requires that this report provide:

1. A list of the County's design or construction contracts necessary to fulfill the requirements of compliance milestones of this Agreement as such milestones are set forth in the Appendices. 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 Agreement;
3. Information regarding unresolved delays encountered or anticipated that may affect the future schedule for implementation of the County's obligations under this 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 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, 2020 through June 30, 2020 (“Reporting Quarter”).

COVID-19 work restrictions the County has implemented continue to limit the number of staff at any County facility.

II.0

Modification Request and Force Majeure Status

The following table lists modification requests made by the County and DEC responses to date.

Table 1 – Modification Requests and Force Majeure Notifications

Milestone	Agreement Date	Mod request letter date	Revised date requested	DEC Response Date	Modified Milestone Date ¹
Raw Sewage Pumping NTP	12/3/2018	8/24/2018	5/15/2019	9/12/2018	<i>5/15/2019</i>
Raw Sewage Pumping NTP	5/15/2019	5/3/2019	11/23/2019	7/1/2019	11/23/2019
Raw Sewage Pumping NTP	11/23/2019	3/27/2020	9/30/2020		
Raw Sewage Pumping CC	12/1/2020	8/24/2018	2/27/2022	9/12/2018	2/27/2022
Raw Sewage Pumping CC	2/27/2022	3/27/2020	9/15/2023		
Effluent Screening NTP	8/21/2018	8/24/2018	2/21/2019	9/12/2018	<i>2/21/2019</i>
Effluent Screening NTP	2/21/2019	5/3/2019	10/5/2019	7/1/2019	10/5/2019
Effluent Screening NTP	10/5/2019	3/27/2020	9/30/2020		
Effluent Screening CC	7/29/2020	8/24/2018	10/14/2021	9/12/2018	10/14/2021
Effluent Screening CC	10/14/2021	3/27/2020	5/22/2023		
Secondary Flood NTP	6/5/2018	8/24/2018	2/15/2019	9/12/2018	<i>2/15/2019</i>
Secondary Flood NTP	2/15/2019	5/3/2019	7/20/2019	7/1/2019	7/20/2019
Secondary Flood NTP	7/20/2019	12/31/2019	12/18/2019	-	-
Secondary Flood CC	7/26/2020	8/24/2018	8/15/2021	9/12/2018	8/15/2021
Secondary Flood CC	8/15/2021	12/31/2019	6/17/2022	-	-
Stormwater Pump Stations CC	3/31/2018	8/24/2018	3/31/2019	9/12/2018	3/31/2019
3 Generator Operation CC	11/30/2018	8/24/2018	3/31/2019	9/12/2018	<i>3/31/2019</i>
3 Generator Operation CC	3/31/2019	1/10/2019 ²	5/19/2019	2/22/2019	5/19/2019
East Avenue Station NTP	8/19/2018	8/24/2018	4/15/2019	9/12/2018	<i>4/15/2019</i>
East Avenue Station NTP	4/15/2019	5/3/2019	11/23/2019	7/1/2019	11/23/2019
East Avenue Station NTP	11/23/2019	3/27/2020	9/30/2020		
East Avenue Station CC	12/28/2019	8/24/2018	2/13/2021	9/12/2018	2/13/2021
East Avenue Station CC	2/13/2019	3/27/2020	9/22/2022		
Sidestream NTP	6/12/2018	8/24/2018	3/25/2019	9/12/2018	<i>3/25/2019</i>
Sidestream NTP	3/25/2019	5/3/2019	7/20/2019	7/1/2019	7/20/2019
Sidestream NTP	7/20/2019	12/31/2019	1/3/2020	-	-
Sidestream CC	12/28/2019	8/24/2018	9/25/2021	9/12/2018	7/8/2021
Sidestream CC	-	2/10/2020 ²	-	-	-
Sidestream CC	7/8/2021	3/27/2020	10/3/2022		
Effluent Pumping CC	5/28/2020	10/19/2018 ²	1/15/2021	12/20/2018	1/15/2021
Level 1 BNR CC	-	5/3/2019 ²	-	7/1/2019	-
Level 1 BNR CC	-	8/5/2019 ²	5/14/2020	12/30/2019	5/14/2020
General Covid-19 FM		3/19/2020 ²			

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

III.0

Notice of Violation Status

DEC issued a Notice of Violation on November 13, 2019, regarding missed milestones for issuing Notice to Proceed on several projects. Two of the three projects cited (Secondary Flood Protection and Sidestream Deammonification) have since been granted Notice to Proceed and the third (Effluent Screening Facility Improvements) received legislative approval on July 13, 2020. The County issued revised projections for all milestones on March 27, 2020 and continues in its efforts to issue a Notice to Proceed for the remaining project listed in the NOV as soon as possible.

IV.0

Design Milestone Status

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

Table 2 – Design Completion Milestones

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 *

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

Project Notes:

All agreement design milestones have been completed and certifications accepted.

V.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	11/23/2019	12/22/2020
Effluent Screening and Disinfection	10/5/2019	9/30/2020
Secondary Flood Protection	7/20/2019	12/18/2019 A
East Avenue Ejector Station	11/23/2019	9/30/2020
Sidestream Deammonification	7/20/2019	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	2/27/2022	6/8/2023	0%
3 Sludge Dewatering Facilities	12/15/2018	5/21/2018 A	100%
4 Effluent Screening and Disinfection	10/14/2021	5/22/2023	0%
5 Effluent Tide Pumping Facilities	1/15/2021	5/5/2020 A	100%
6 Electrical Distribution Phase E1-E3	9/21/2019	7/25/2020	99%
7 Secondary Flood Protection	8/15/2021	7/23/2021	22%
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	2/13/2021	9/22/2022	0%
16 Level 1 BNR	5/14/2020	4/30/2020 A	100%
17 Sidestream Deammonification	7/8/2021	10/3/2022	20%

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

Project Notes:

1. Barnes Avenue – Baldwin

Substantial completion was granted November 22, 2019 and milestone certification accepted by DEC February 25, 2020.

Progress This Quarter:

- Continued punch list work and project close-out

Expected Progress Next Quarter:

- Continue project close out

2. Raw Sewage Pumping Facility

Progress This Quarter:

The County continued with the award process, however prior to the projected achievement of legislative approval on July 13, 2020, the low bid contractor withdrew from consideration. The County has determined that the second low bidder is willing to perform for their original bid price and is now proceeding with the award process.

Expected Progress Next Quarter:

The County will be continuing with the award process with goal of a Q1 2021 NTP.

3. Sludge Dewatering Facilities

This project is nearing final completion.

Progress This Quarter:

- Continue project closeout activities.

Expected Progress Next Quarter:

- Project closeout

4. Effluent Screening and Disinfection

Progress This Quarter:

Continued the award process for the construction and construction management contracts. The construction contract was approved by the County legislature and a Notice of Award was issued to the contractor.

Expected Progress Next Quarter

The County will be continuing with the award process, of which Comptroller and NIFA approval remains, with the goal of a Q3 2020 NTP.

5. Effluent Tide Pumping Facilities

The project achieved substantial completion April 30, 2020, before the milestone date.

Progress This Quarter:

- Progressed the installation of electrical conduits, wires, and cables in EPF.
- Progressed lightning protection system & grounding system.
- Progressed checkout, yellow & blue tag test of SCAC units.
- Progressed pull & terminate wire change order No. 5 duct heater units.
- Continued to deliver Spare Parts and O&M Manuals.
- Progressed HVAC ductwork connection to H&V.
- Progressed conduit & wiring installation to H&V Unit, terminate & startup.
- Progressed installation of conduit tags, seal conduits at electrical Manholes.
- Continued Painting/Coating Walls, Piping, & Floor in EPF.
- Completed Bridge Crane final checkout and Training.
- Progressed wiring Hot Water Heaters,
- Progressed HVAC Controls checkout
- Completed installation of Air Compressor overload component
- Completed OSHA Railing by check valve

Expected Progress Next Quarter

- Complete H&V unit pipe connection & insulation.
- Complete all HVAC testing & turnover
- Complete checkout HVAC Controls
- Complete Blue Tag testing electrical systems
- Complete Floor coating and all painting
- Perform final checkout & startup of Fire Alarm System.
- Complete all conduit & wiring tagging.
- Finalize Lightning Protection System & Final Inspection
- Schedule SCAC & H&V Unit training
- Finish wiring Hot Water Heaters
- Complete lightning protection system & inspection.
- Install roof fall protection signage.
- Submit effluent building spares, O&M, and training.

6. Electrical Distribution System Phases E1-E3

Phases E1 and E2 were completed 10/19/2016 and 9/29/2017, respectively. The transition from the old main substation to the new substation under Contract E3 is complete. The E3 project has continued beyond the milestone date of September 21, 2019, but is now near substantial completion, projected for July 25, 2020. A milestone modification request was submitted 3/27/20.

Progress This Quarter:

- Continued check-up for the Elevator and schedule start-up, MSS,
- Completed demolition of old USS-1 in Generator Bldg,
- Continued installation of conduit labels,

- Continued final clean up throughout the site,
- Continued seeding and watering throughout the site,
- Continued Spare Parts turn-over,
- Continued training and O&M turnover,
- Continued to work on punch list (Generators, HVAC, Plumbing and Electrical)

Expected Progress Next Quarter:

- Complete Elevator Start up,
- Complete conduit labeling,
- Turn over outstanding Spare Parts,
- Complete turn over outstanding O&Ms,
- Complete varies training.

7. Secondary Flood Protection

Notice to Proceed was granted at the end of 2019 and the project is progressing on the contract schedule. A milestone modification letter was submitted to DEC 12/31/19 requesting revised milestones based on the current schedule.

Progress This Quarter:

- Placed Concrete for the Tunnel Access Building Stripped Formwork.
- Placed Concrete for Exhaust Fans Nos. 3, 4, 5 and 6 Curb Extensions.
- Placed Concrete for the Flood walls inside Aeration Building No. 1.
- Placed Concrete for the Interior Knee Walls at the Return Activated Sludge Building.
- Placed Concrete for the Exterior Flood Wall Foundation at the Return Activated Sludge Building.
- Completed Masonry Block and Brick Mockup.
- Installed Conduit and Wiring for Exhaust Fans Nos 1, 2 and 5 and reinstalled fans.
- Started Mechanical Piping Offsets for the Main Building Basement Flood Walls.
- Installed masonry blocks and brick for the exterior wall window openings at Aeration Building No. 1.
- Removed Hot Water Return and Hot Water Supply from the Fire Protection Building for Offset.
- Began Excavation for the Installation of the Flood Wall at the Fire Protection Building.
- Began Installing Electrical Conduit and Disconnects for Exhaust Fans Nos.1 and 2.
- Install Flood Vents at Aeration Building#1 and Return Activated Sludge Building.
- Demolished sump pumps at various locations, temporary pumps installed as required.

Expected Progress Next Quarter:

- Remove Existing Electrical Conduit & Lighting Fixture to Existing North Service Tunnel at Main Building#23A.
- Install Piping Offset and Piping Insulation to Existing North Service Tunnel at Main Building#23A.

- Sawcut and Demolish Topping Slab to Existing South Service Tunnel at Main Building#23A.
- Start Work at Sludge Pump Station Control Building No. 3.
- Install Grounding Rods and Copper Grounding Grid for Tunnel Access Structure#5.
- Continue Masonry, Interior Painting and Roofing at Tunnel Access.
- Continue Rebar Installation, Place Exterior Flood Walls, and Masonry at Fire Protection Building.
- Continue Exterior Flood Walls, Interior Painting and Masonry at Return Activated Sludge Building.

8. Stormwater Pump Stations

The contract was granted substantial completion June 24, 2019 and milestone certification was granted in Q2 2019.

Progress This Quarter:

- Continued Demobilizing the Staging Area.
- Continued to Complete Punch List Items.

Expected Progress Next Quarter:

- Continue punch list and incomplete work items

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.

Progress This Quarter:

- Continued punch list work.

Expected Progress Next Quarter:

- Continue punch list work and close out activities.

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

The construction and construction management services contracts were advertised on March 8, 2019. Bids and proposals were received in April, 2019, and the County was proceeding with the award process to the low bidder. On September 20, 2019, the low bidder withdrew from consideration as they had made a gross error in their bid having omitted the bypass pumping required to execute the work. The County has progressed the award process to the second low bidder, which obtained legislative approval on July 13, 2020. A modification request was issued to DEC March 27, 2020.

16. Level 1 BNR

The project was granted substantial completion on April 30, 2020, and milestone certification was submitted May 5, 2020.

Progress This Quarter:

- Punchlist work in progress.
- Started Repair / Warranty work for Mixers in Passes 2B, 3B, and 3C.

Expected Progress Next Quarter:

- Punchlist and As-build Record Drawings.

17. Sidestream Deammonification

A milestone modification letter was submitted to DEC 12/31/19 requesting revised milestones based on the current schedule. A force majeure notification was submitted 2/10/20 regarding the unforeseen subsurface conditions encountered in the field which required a redesign of the pile support system for the EQ and Deammonification Tanks. The redesign has been completed and pile installation has begun.

Progress This Quarter:

- Continued underground utility relocation.
- Continued submission of general conditions items and technical submittals.
- Continued site excavation.
- Continued plumbing and electric layout within sludge dewatering building.
- Continued Test Piles installation and testing.
- Continued plumbing installations within the sludge dewatering building.
- Installed deep wells for dewatering system.

Expected Progress Next Quarter:

- Continue mechanical and plumbing work.

- Start production pile installation.
- Continue site excavation.
- Installation and operation of Dewatering system.

VI.0

Inter Municipal Agreement

Paragraph V.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.

The County has initiated the design phase for the Long Beach WPCP Consolidation. The design of the influent pump station conversion is near completion and is projected to advertise July 31, 2020. The force main design is at the 30% stage and is projected to advertise in October of 2020. The force main route has been defined sufficiently to define the parkland alienation that will occur in East Rockaway and Long Beach, and both the County and City passed the Home Rule messages in support of the parkland alienation State legislation, which was subsequently passed by the NY Assembly and Senate at the beginning of Q3 2020.

The County is continuing the procurement of a consultant to provide a feasibility study for integrating Point Lookout, NY, currently on septic systems, into the Long Beach sewer system. An RFP was issued, proposals received, and a consultant selected. The award process will continue in the next quarter.

In anticipation of taking over the City's wastewater collection system infrastructure, the County has also issued an RFP to procure a consultant to perform a full assessment of the inventory to be acquired. In the last quarter the RFP was issued, proposals received, and the selection process is ongoing. The County will advance the selection and award of this consultant in the next quarter.

As per discussion with the State, the County anticipates connecting the City collection system to Bay Park in advance of the Long Beach administrative consent order date in June of 2024. Milestones regarding the connection of Long Beach to Bay Park will be proposed after the connection route has been approved.

VII.0

Nitrogen Interim Limit Schedule of Compliance

The milestones for the Interim Nitrogen Limits are listed in the following table.

Table 5 – Bay Park WPCP Interim Nitrogen Limits

Description of Work for Nitrogen Removal Project	Completion Date
Submit an approvable BNR Operation and Maintenance (O&M) Plan	1/8/2020
Begin operation of the 6-month start-up period	6/1/2020
Begin the 12-month performance period	1/1/2021
End 12-month performance period	1/1/2022
Submit performance data	4/1/2022

These milestones will be reviewed as the Sidestream Deammonification and Level 1 BNR projects progress through the construction phase. The milestones in Table 5 reflect those for the Level 1 BNR Improvements and a separate program will be developed for the Sidestream Project upon commencement of construction for that project.

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.

VIII.0

Diversion Project

The milestones for the Diversion Project are listed in the following table:

Table 6 – Diversion Project Milestones

Description of Work	Completion Date
Slip lining of aqueduct along Sunrise Highway	November 2019
Diversion Project Report	January 2018
Design Start	TBD
Design Completion	TBD
Impact Report	TBD
Notice to Proceed to Construction	TBD
Construction Completion and Commence Diversion of Influent Wastewater from Bay Park WWTP to Cedar Creek WWTP	June 2024

Progress This Quarter:

RFP was issued to the three teams selected from the qualifications review process. Alternative Technical Concepts (ATCs) were presented by each proposer and reviewed by the County and the State. Addenda were issued in response to questions from the proposers. Community outreach was developed and conducted virtually.

Expected Progress Next Quarter:

Meetings will continue with the proposers through August as they develop their proposals. Technical and price proposals are to be submitted September 14, 2020.

Project Milestones:

Proposed milestones were issued by the County to DEC on March 27, 2020 and are currently under review.

IX.0

Environmental Benefit Projects

The County's Cedar Creek Program Manager has engaged a design sub consultant and a technical design report presenting options was produced and received by DPW. It is currently under review.

X.0

Certification of Completed Activities

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

Table 7 – Completed Activities

Milestone	Date Completed	Certification Submitted	Certification Accepted
Effluent Screening and Disinfection - Design Completion	1/5/2018	7/5/2018	9/13/2018
East Avenue Ejector Station - Design Completion	3/2/2018	7/5/2018	9/13/2018
Cedar Dr, Roosevelt et al PS - Construction Completion	1/12/2018	7/5/2018	11/27/2018
Wantagh, Newbridge et al PS – Construction Completion	2/12/2018	7/5/2018	11/27/2018
Sage Lake and Lawrence PS – Construction Completion	8/13/2018	8/24/2018	11/27/2018
Ocean Ave, Mill Road et al PS – Construction Completion	8/17/2018	9/19/2018	11/27/2018
Sludge Dewatering Facilities – Construction Completion	10/12/2018	10/24/2018	1/4/2019
Inwood, Doughty et al PS – Construction Completion	2/19/2019	2/28/2019	5/1/2019
Stormwater Pump Stations – Construction Completion	3/28/2019	4/3/2019	4/19/2019
Upgrade to 3 Generator Operation – Construction Completion	8/30/2019	9/12/2019	11/7/2019
Barnes Ave-Baldwin	11/22/2019	11/25/2019	2/25/2020
Secondary Flood Protection – Notice to Proceed	12/18/19	12/31/19	
Sidestream Deammonification – Notice to Proceed	12/31/19	12/31/19	
Level 1 BNR – Construction Complete	4/30/20	5/5/20	
Effluent Pumping Facility – Construction Complete	5/5/20	6/10/20	
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	

XI.0

Community Relations

No community meetings were held this quarter. The community outreach plan for the Bay Park Conveyance Project has been developed and engagement with municipalities has begun. Virtual project information sessions were initiated in July 2020 and outreach to property owners where easements may be required began in June 2020.

The NEPA Environmental Assessment (EA) outreach has been initiated, where the County is coordinating with Towns and Villages to direct their constituents to the Bay Park Conveyance project website to view the documents. Notification and start of 30-day public comment period for the EA was July 3, 2020.

XII.0

Attachments

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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Existing Capital Projects																		
S3B119-05G - Generator Controls																		
Design																		
Design - Generator Controls	74	0	21-Oct-13 A	22-Apr-14 A	100													
Procurement																		
Procurement - Generator Controls	121	0	28-Oct-13 A	25-Feb-14 A	100													
Construction																		
Temp Generators Off-line / Plant Power on House Generabis	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													
Award / NTP CM Services - Grit Removal	40	0	26-Oct-13 A	26-May-14 A	100													
Construction Contract																		
75% to 100% Design / Bid Documents - Grit Removal	236	0	06-May-13 A	12-Feb-14 A	100													
County Prepare Bid for Advertisement - Grit Removal	7	0	13-Feb-14 A	23-Feb-14 A	100													
Bid / Advertise - Grit Removal	56	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													
S35100-01G - Cleaning & Repair of Digesters & Storage Tanks																		
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-13 A	09-Sep-13 A	100													
Award / NTP CM Services - Sludge Thickening	30	0	10-Sep-13 A	25-Mar-14 A	100													
Construction Contract																		
Award / NTP - 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													
Award / NTP CM Services - Odor Control BP & CC WPCPs	30	0	10-Sep-13 A	10-Mar-14 A	100													
Construction Contract																		
Award / NTP - Odor Control BP & CC WPCPs	64	0	21-Aug-13 A	23-Oct-13 A	100													
Construction - Odor Control BP & CC WPCPs	730	0	28-Oct-13 A	07-Nov-15 A	100													
Hurricane Sandy Projects																		
FEMA Approval Process																		
FEMA 404 Grants	60	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													

█ 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
FEIMA Scope and Cost Negotiation	90	0	20-Dec-13 A	15-Jan-14 A	100													
S35121-01G/E - Final Settling Tank Rehabilitation																		
Construction Contract																		
Award / NTP - Final Tank Rehabilitation	64	0	21-Aug-13 A	23-Oct-13 A	100													
Construction - Final Tank Rehabilitation	730	0	28-Oct-13 A	13-May-16 A	100													
CM Contract																		
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													
S35121-03G - Raw Sewage Pumping Facility																		
CM Contract																		
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	93	02-Mar-19 A	30-Sep-20	48													
Design Process																		
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													
Bid / Construction																		
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	175	13-Jun-20 A	21-Dec-20	3													
Construction - Raw Sewage Pumping Facility	899	899	22-Dec-20	08-Jun-23*	0													
S35121-09G - Sludge Dewatering																		
CM Contract																		
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													
Design Process																		
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													
Centrifuge Pilot Testing																		
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													
Bid / Construction																		
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													
S35121-09R - Sludge Dewatering Demolition																		
Design Process																		
100% Design - Dewatering Demolition	89	0	02-Jan-14 A	31-Mar-14 A	100													
Bid / Construction																		
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													

█ 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
S35121-16P - Heating Hot Water Piping Permanent System																		
CM Contract																		
RFP / Advertise CM Services - Heating Hot Water Piping Permanent System	29	29	31-Mar-21	28-Apr-21	0													
Award / NTP CM Services - Heating Hot Water Piping Permanent System	190	190	29-Apr-21	04-Nov-21	0													
Design Process																		
Preliminary Design - Heating Hot Water Piping Permanent System	90	0	02-Nov-15 A	09-Sep-16 A	100													
RFP / Advertise - Final Design - Heating Hot Water Piping Permanent System	29	0	19-Oct-18 A	16-Nov-18 A	100													
Award / NTP Final Design - Heating Hot Water Piping Permanent System	159	93	16-Nov-18 A	30-Sep-20	42													
Final Design - Heating Hot Water Piping Permanent System	210	210	01-Oct-20	28-Apr-21	0													
Bid / Construction																		
County Prepare Bid for Advertisement - Hot/Chilled Water System Upgrades	7	7	29-Apr-21	05-May-21	0													
Bid / Advertise - Heating Hot Water Piping Permanent System	29	29	07-May-21	04-Jun-21	0													
Bid Opening - Heating Hot Water Piping Permanent System	1	1	08-Jun-21	08-Jun-21	0													
Award / NTP - Heating Hot Water Piping Permanent System	180	180	09-Jun-21	05-Dec-21	0													
Construction - Heating Hot Water Piping Permanent System	730	730	05-Dec-21	04-Dec-23*	0													
S35121-16TR - Vehicle Fueling & Tanks Reconstruction																		
Design Process																		
Design - Vehicle Fueling	53	0	10-Mar-14 A	02-May-14 A	100													
Bid / Construction																		
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													
S35121-16V - Dechlorination Vault Storm Mitigation																		
Design Process																		
Design - Dechlor Sample Vault Hardening	180	0	27-Mar-15 A	22-Oct-15 A	100													
Bid / Construction																		
County Prepare Bid for Advertisement - Dechlor Sample Vault Hardening	7	0	23-Oct-15 A	29-Oct-15 A	100													
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													
S35121-17G - 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 CM Services - Perimeter Flood Protection	90	0	08-Feb-14 A	30-Jun-14 A	100													
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													
Finalize Technical Memorandum - Perimeter Flood Protection	45	0	12-Aug-13 A	17-Dec-13 A	100													
Public Review/Comment Period	30	0	17-Dec-13 A	16-Jan-14 A	100													
Bid / Construction																		
County Prepare Bid for Advertisement - Perimeter Flood Protection	7	0	17-Jan-14 A	23-Jan-14 A	100													
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													

■ 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
S35121-18G - Flood Protection Phase 1 Stormwater Pumping Stations																		
CM Contract																		
RFP / Advertise CM Services - Flood Protection Phase 1 Stormwater PS	29	0	31-Jul-15 A	28-Aug-15 A	100													
Award / NTP CM Services - Flood Protection Phase 1 Stormwater PS	90	0	29-Aug-15 A	17-Jun-16 A	100													
Design Process																		
Preliminary Design Flood Protection Phase 1 Stormwater PS	97	0	18-Dec-13 A	17-Apr-14 A	100													
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													
Bid / Construction																		
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													
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													
S35121-18S - Flood Protection Phase 2 Stormwater Green Infrastructure																		
Design Process																		
Preliminary Design - Flood Protection Phase 2 Stormwater GI	96	0	31-Jan-16 A	26-May-16 A	100													
RFP / Advertise - Final Design Flood Protection Phase 2 Stormwater GI	29	0	27-May-16 A	24-Jun-16 A	100													
S35123-L37 - Miscellaneous Storm Repairs, Mitigation & Site Restoration																		
CM Contract																		
RFP / Advertise CM Services - Misc Storm Repairs, Mitigation & Restoration	29	29	25-Nov-21	23-Dec-21	0													
Award / NTP CM Services - Misc Storm Repairs, Mitigation & Restoration	180	180	24-Dec-21	21-Jun-22	0													
Design Process																		
Conceptual Design - Misc Storm Repairs, Mitigation & Site Restoration	90	87	05-Jul-19 A	24-Sep-20	3													
RFP / Advertise - Final Design - Misc Storm Repairs, Mitigation & Site Restoration	29	29	25-Sep-20	23-Oct-20	0													
Award / NTP Final Design - Misc Storm Repairs, Mitigation & Site Restoration	180	180	24-Oct-20	21-Apr-21	0													
Final Design - Misc Storm Repairs, Mitigation & Site Restoration	270	270	21-Apr-21	15-Jan-22	0													
Bid / Construction																		
County Prepare Bid for Advertisement - Misc Storm Repairs, Mitigation & Site	7	7	15-Jan-22	21-Jan-22	0													
Bid / Advertise - Misc Storm Repairs, Mitigation & Site Restoration	29	29	21-Jan-22	18-Feb-22	0													
Bid Opening - Misc Storm Repairs, Mitigation & Site Restoration	1	1	22-Feb-22	22-Feb-22	0													
Award / NTP - Misc Storm Repairs, Mitigation & Site Restoration	180	180	23-Feb-22	21-Aug-22	0													
Construction - Misc Storm Repairs, Mitigation & Site Restoration	731	731	21-Aug-22	20-Aug-24*	0													
S3B119-06G - Bay Park STP Heating Hot Water Piping Temporary System																		
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													
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													
Award / NTP - Heating Hot Water Piping Temporary System	13	0	01-Jul-15 A	13-Jul-15 A	100													
Construction - Heating Hot Water Piping Temporary System	124	0	13-Jul-15 A	04-Aug-16 A	100													
S35121-06G - Aeration Blower Facility																		
CM Contract																		
RFP / Advertise CM Services - Aeration Blower Facility	29	29	28-Oct-21	25-Nov-21	0													
Award / NTP CM Services - Aeration Blower Facility	180	180	26-Nov-21	24-May-22	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													
RFP / Advertise - Final Design - Aeration Blower Facility	29	29	25-Sep-20*	23-Oct-20	0													
Award / NTP Final Design - Aeration Blower Facility	180	180	24-Oct-20	21-Apr-21	0													
Final Design - Aeration Blower Facility	240	240	21-Apr-21	16-Dec-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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
S3P311-05G - Millar, Mott, Long Beach, Royal & Lido																		
Design Process																		
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			■										
Bid / Construction																		
County Prepare Bid for Advertisement - Pump Station 5	7	0	02-May-15 A	21-May-15 A	100				■									
Bid / Advertise - Pump Station 5	29	0	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						■							
S3P311-04M - PS4 & PS5 Construction Management																		
CM Contract																		
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						■							
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		■											
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				■									
Bid / Construction																		
County Prepare Bid for Advertisement - Pump Station 6	7	0	18-Sep-15 A	24-Sep-15 A	100						■							
Bid / Advertise - Pump Station 6	29	0	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								■					
S3P311-07G - Inwood, Doughty, Bayview & Roslyn																		
Design Process																		
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				■									
Bid / Construction																		
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									■				
S3P311-06M - PS6 & PS7 Construction Management																		
CM Contract																		
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							■						
S3P311-08G - East Avenue																		
CM Contract																		
RFP / Advertise CM Services - East Avenue Pump Station	29	0	08-Mar-19 A	05-Apr-19 A	100									■				
Award / NTP CM Services - East Avenue Pump Station	180	32	06-Apr-19 A	31-Jul-20	82									■				
Design Process																		
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										■			

■ 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Design Process																		
Preliminary Design - Roslyn Village, Morgan Park & Shore Rd	75	0	01-Mar-16 A	16-Jun-16 A	100													
RFP / Advertise Final Design - Roslyn Village, Morgan Park & Shore Rd	29	0	17-Jun-16 A	15-Jul-16 A	100													
Award / NTP Final Design - Roslyn Village, Morgan Park & Shore Rd	60	0	16-Jul-16 A	02-Feb-17 A	100													
Final Design - Roslyn Village, Morgan Park & Shore Rd	154	0	02-Feb-17 A	02-Aug-17 A	100													
Bid / Construction																		
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	32	13-Dec-17 A	30-Sep-20	64													
Construction - Roslyn Village, Morgan Park & Shore Rd	365	365	30-Sep-20	29-Sep-21*	0													
S80019-03GR - Cedar Point Lake (Doxey Brook) Pump Station																		
CM Contract																		
RFP / Advertise CM Services - Cedar Point Lake PS	29	0	01-Dec-16 A	23-Dec-16 A	100													
Award / NTP CM Services - Cedar Point Lake PS	90	0	24-Dec-16 A	03-Jan-18 A	100													
Design Process																		
Final Design - Cedar Point Lake PS	180	0	10-Feb-16 A	28-Oct-16 A	100													
Bid / Construction																		
County Prepare Bid for Advertisement - Cedar Point Lake PS	7	0	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													
Nitrogen Reduction Projects																		
S35123-L38G - Sidestream Deammonification																		
CM Contract																		
RFP / Advertise CM Services - Sidestream Centrate Treatment	29	0	28-Jul-17 A	25-Aug-17 A	100													
Award / NTP CM Services - Sidestream Centrate Treatment	90	0	26-Aug-17 A	16-Dec-19 A	100													
RFP Process																		
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													
Design Process																		
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													
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													
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	625	31-Dec-19 A	16-Mar-22*	14													
S35123-L39G - Level 1 BNR Improvements																		
CM Contract																		
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													
Design Process																		
Design - Level 1 BNR Improvements	120	0	30-Nov-15 A	23-Sep-16 A	100													
Bid / Construction																		
County Prepare Bid for Advertisement - Level 1 BNR Improvements	7	0	24-Sep-16 A	29-Sep-16 A	100													
Bid / Advertise - Level 1 BNR Improvements	29	0	30-Sep-16 A	11-Nov-16 A	100													

█ 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
		7/28/2020
Signature		Date Signed