

February 18, 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 12233-3506

Agreement DEC Index No: CO 1-20170626-244

Bay Park Sewage Treatment Plant  
**2020 Q4 Quarterly Report-Revised**

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Dear Mr. Hampston:

We are submitting herewith our Revised Quarterly Report for the period of October 1, 2020 through December 31, 2020. Your comments from your February 5, 2021 letter have been responded to within.

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>	<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>	<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>
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# DEC Agreement Q4 2020 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 October 1, 2020 through December 31, 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**

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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 October 1, 2020 through December 31, 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

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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

## Notice of Violation Status

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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) were granted Notice to Proceed in December, 2019, and the third (Effluent Screening Facility Improvements) was notified of Notice to Proceed in October, 2020. These projects are now in compliance with the Modified Agreement milestones and the County has submitted milestone certifications for all noted projects.

## IV.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.

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	2/26/2021	2/26/2021
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	8/14/2023	0%
3 Sludge Dewatering Facilities	12/15/2018	5/21/2018 A	100%
4 Effluent Screening and Disinfection	8/22/2023	12/27/2022	5%
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	9/21/2021	50%
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	4/25/2022	9%
16 Level 1 BNR	5/5/2020	4/30/2020 A	100%
17 Sidestream Deammonification	7/8/2021	3/2/2022	50%

\* 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:

The County continued with the award process with the second low bidder.

#### 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 has been completed and milestone certification accepted.

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

#### Progress This Quarter:

- Notice to Proceed was issued on November 4, 2020.
- HASP received and acknowledged.
- Pre-construction photographs taken.
- Baseline CPM schedule and screen demo plan received and under review.
- Continued preparation and submission of administrative and technical submittals.

#### Expected Progress Next Quarter

- Lock out and tag out of Screen No. 1.
- Conduct preliminary hazardous material survey.
- Install stop logs Channel No. 1
- Inspect drain valve Channel No. 1
- Isolate spray water Screen No. 1.

### **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.

#### Progress This Quarter:

- Continued to process Contractor's Submittals including As-Built Drawings and O&M Manuals.
- Continued to work on Change Order for Phase E4 PSEG/LIPA equipment.
- Continued Spare Parts turnover.
- Continued O&M Manual turnover.

- Continued to work on punch list for Electrical and Non-Electrical items.

Expected Progress Next Quarter:

- Begin work on E4 equipment change order.
- Turn over outstanding Spare Parts.
- Complete turnover of outstanding O&M Manuals.
- Complete remaining training (possibly remotely).
- Continue to work on punch list.

## **7. Secondary Flood Protection**

Progress This Quarter:

- Installed Flood Vents at Aeration Building No. 2.
- Demolished Electrical Equipment at Aeration Building No. 2.
- Finished Installing the Brick Fascia on Flood Walls at the Sludge Control Building.
- Installed Pipe Insulation on the Hot Water Piping at the Fire Protection Building.
- Reinstalled FRP Stairs at the Dechlorination Building.
- Continued Installing the Coping Stone at the Fire Protection Building.
- Began Installing the Piping and Electric Service for the Service Tunnel Sump Pumps.
- Reinstalled Exhaust Fans Nos. 3, 7 and 8.
- Continued to Submit Shop Drawings, RFI's and Subcontractor/Vendors for Approval.

Expected Progress Next Quarter:

- Continue Electrical Construction at the Tunnel Access Structure.
- Finish Installing the Coping Stone at the Fire Protection Building.
- Begin Installing Coping Stone for the Exterior Flood Wall at the RAS Building.
- Continue Installing Discharge Piping for Service Tunnels Sump Pumps.
- Continue Installing Electrical Service for Service Tunnels Sump Pumps.
- Begin Construction of Flood Walls at the Sludge Control Center.
- Begin Concrete Construction at the Operations Building.
- Continue to Submit Shop Drawings, RFI's and Subcontractor/Vendors for Approval.

## **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 & Rav 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:

- Notice to Proceed was issued on November 2, 2020.
- Continued mobilization.
- Completed brick removals.
- Completed lead abatement.
- Completed asphalt pavement saw cutting.
- Performed surveying.

#### Expected Progress Next Quarter:

- Remove asphalt pavement.
- Perform test pits.
- Remove lead paint from site.
- Complete temporary electrical system.
- Start temporary bypass pump installation.

### **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.
- Installed electric manholes on east side of Sludge Dewatering Building.
- Continued chemical and process air piping installation within the sludge dewatering building.
- Continued electric conduit installation within the sludge dewatering building.

- Continued formwork and rebar installation for DA and EQ tanks. Placed walls for EQ tank and continued DA tank roof.
- Continued installation of chemical pumps and Blowers.
- Continued VFD support and transformer installation.
- Continued HVAC Ductwork installation in Sludge Dewatering building mechanical room.

Expected Progress Next Quarter:

- Continue site layout.
- Continue submittals.
- Continue mechanical, plumbing, and electric work within the sludge dewatering building.
- Continue EQ Tank Walls, Stairs, and Roof.
- Continue DA Tank Roof.
- Continue Centrate Piping Installation.
- Continue Electric Rough-in in DA & EQ Tanks.
- Continue VFD installations.
- Start Electric duct bank installation between Sludge Dewatering Building and EQ Tank.

## VI.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.

## 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	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 Sidestream	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.

## VIII.0

## Conveyance Project

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

**Table 6 – Conveyance Project Milestones**

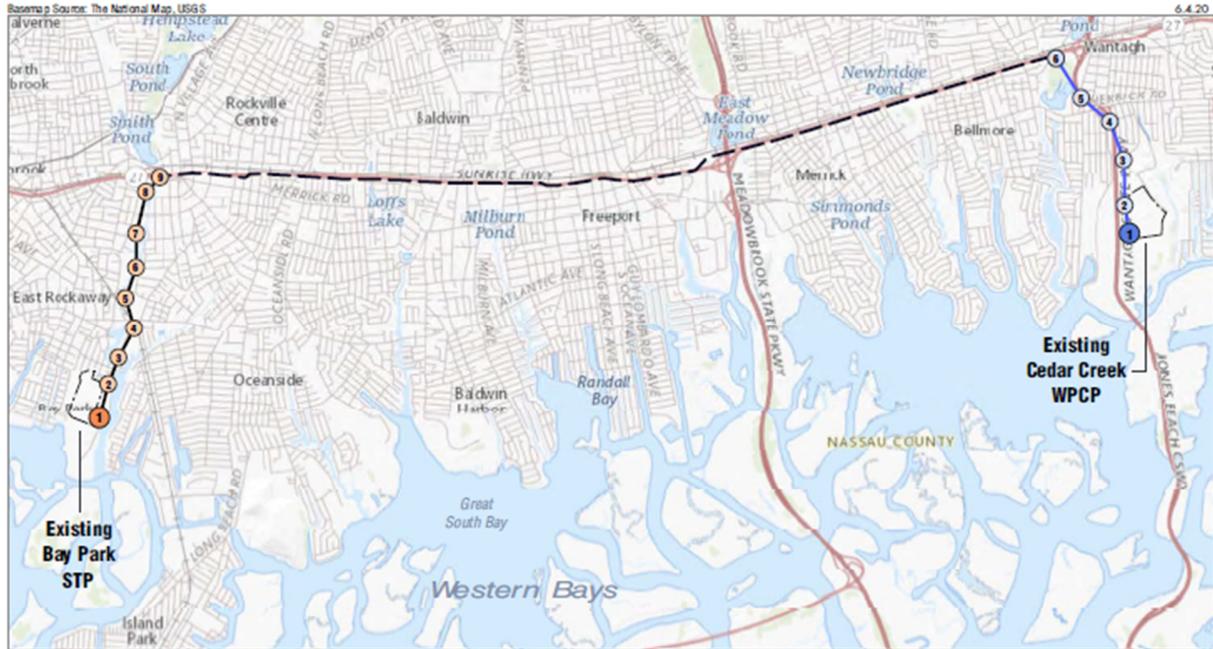
<b>Description of Work</b>	<b>Agreement Date</b>	<b>Projected / Actual</b>
DEC Conveyance Team Selects Best-Value Proposal	10/26/2020	10/22/2020
County/DEC Project Team to submit approvable major and minor milestones in a Baseline Schedule for Design-Build Project Completion, including Mechanical Completion, Substantial Completion, and Final Acceptance	3/26/2021	3/26/2021
Repair of the Cedar Creek Outfall Diffuser	10/31/2021	10/31/2021
Notice to Proceed to Construction	2/26/2021	2/26/2021
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

Per the modified Agreement, the State will self-certify the timely completion of each milestone.

### 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.

(Continued on following page)



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 new 70 inch diameter force mains between each of the two treatment plants and the existing aqueduct, and (4) constructing a standpipe receiving tank connection at the existing Cedar Creek WPCP pump station. 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.

### **Procurement and Contracting Efforts**

The following is a summary of the recent efforts of the DEC Project Team and Nassau County DPW, with the tremendous assistance of a team of engineering consultants from AECOM, WSP, and Hazen and Sawyer/Arcadis Joint Venture.

On February 24, 2020, the design-build Request for Qualifications (RFQ) was advertised.

On April 22, 2020, three RFQ respondents, (1) Western Bays Constructors (John P. Picone, Inc. and Northeast Remsco, Inc.) Joint Venture, (2) Skanska/Posillico/Michels Joint Venture, and (3) Southland / RJ Industries Joint Venture, were shortlisted. Two firms that submitted Statements of Qualifications, Tully Construction and OHL, were not shortlisted.

The Request for Proposals (RFP) was issued on April 29, 2020. 21 addenda and 22 responses to questions to the RFP were issued weekly by DEC.

On July 15, 2020, DEC and DPW held a Virtual Public Meeting.

On July 21, 2020, Southland / RJ Industries JV withdrew from the RFP.

On September 8, 2020, DEC and DPW held a Virtual Public Meeting with the South Shore Estuary Reserve CAC.

On September 29, 2020, DEC received proposals from both (1) Western Bays Constructors (John P. Picone, Inc. and Northeast Remsco, Inc.) Joint Venture, and (2) Skanska/Posillico/Michels Joint Venture.

On October 8, 2020, DEC and DPW held a virtual meeting with the Mandalay Bay Homeowner's Association.

On October 21, 2020, DEC and DPW held a Virtual Public Meeting with the South Shore Estuary Reserve Board.

On October 22, 2020, DEC made a "best-value" determination, selecting Western Bays Constructors JV and entered into contract negotiations.

Western Bays Constructors JV's proposal score better than the other proposal from both a technical and price perspective. From a price perspective, Western Bay Constructors JV's Base Bid price (not inclusive of allowances and contingencies) of \$385,450,000.00 is within 4.5% of the Design Engineer's Opinion of Probable Costs (OPC) of \$403,633,882.00. From a technical perspective, Western Bays Constructors JV realized construction savings by:

- (1) While purchasing new TBMs, Western Bays Constructors JV is also leveraging use of an existing owned Microtunnel Boring Machine (MTBM) maintained and actively operated in the U.S. North East area, potentially reducing the extent of invests in new equipment which typically cost \$4.5M per unit;
- (2) Adopting the Cutter Soil Mix (CSM) system as an alternative shaft construction methodology/technique, which leverages the use of in-situ geotechnical characteristics of Long Island "sand" as aggregate to produce a support of excavation (SOE) that implemented with increased productivity, potentially provides moderately less costs across all shaft sites;
- (3) Utilizing a rubber and steel entry ring in concert with the CSM approach, which eliminates the need for a more costly external grouting program to stabilize the ground at MTBM launch and retrieval;
- (4) Optimizing the size of the temporary working pits required along Sunrise Highway, making them more compact, which consequently reduces material and installation costs; and

- (5) Leveraging existing historical experience with Project Labor Agreements (PLA) and local Nassau County Trade Councils to extract the full benefit labor/craft rate savings through engagement with the local jurisdictions as intended by the PLA.
- (6) Proposing the use of the SOE at the Bay Park Wet Well as a permanent foundation for the new Effluent Diversion Pump Station

On November 5, 2020 Western Bays Constructors JV submitted a negotiated proposal addendum that was the result of the contract negotiations. This resulted in a reduction on the Base Bid by \$300,000.00 and the elimination of the shaft six (6) at East Rockaway High School. This requires a curved alignment between shafts 5 and 7.

On November 5, 2020, DEC issued a Notice of Intent to Award the contract to Western Bays Constructors JV.

On November 6, 2020, Western Bays Constructors JV signed the contract and submitted it to Nassau County for approval and routing.

On November 12, 2020, DEC and DPW held a Virtual Public Meeting.

On November 20, 2020, Mark Klotz, Director of DEC's Division of Water approved the Diversion Project Report, also referred to as the January 2018 Report, referenced in Appendix B of CO 1-20170626-244, prior to said Agreement being modified by the parties.

On November 23, 2020, the Nassau County Legislature approved the design-build contract with Western Bays Constructors JV and associated bond ordinance.

On December 15, 2020, Western Bays Constructors JV re-executed the contract and furnished payment and performance bonds with matching dates as requested by the NYS Attorney General's Office, Bureau of Contracts.

On December 17, 2020, the Nassau County Interim Finance Authority (NIFA) approved the design-build contract and borrowing.

On December 18, 2020, Deputy County Executive Brian Schneider executed the design-build contract on behalf of Nassau County.

On December 19, 2020, DEC executed the design-build contract.

On December 21, 2020, DEC formally submitted the contract to NYS Attorney General's Office, Bureau of Contracts.

On December 23, 2020, the NYS Attorney General's Office, Bureau of Contracts approved the contract and the payment and performance bonds as to form.

On January 26, 2021 Nassau County, NYS DEC, NYS OGS, NYS ESD, and WBC held a MWBE/SDVOB career fair for prospective subcontractors

**Current Status**

As of the writing (February 18, 2021) of this status the design-build contract is currently under review by the NYS Office of the State Comptroller.

On February 9, 2021, the DEC Project Team provided access to download the Contract through DEC's secure SharePoint file management site to the DEC Compliance Team. The Contract Documents provide a complete picture of the project. The Initial Baseline Schedule is included as Appendix K.

The DEC Project Team is preparing to issue a Notice to Proceed on February 26, 2021, subject to receiving all remaining approvals necessary. Once NTP is issued, the Project Team will be able to project any anticipated sources delays, as none are currently evident.

IX.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 7 – 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

These are new requirements established in the Modified Agreement. The County has no updates for this reporting quarter but will provide an update in the next quarterly report.

**X.0**

## **Environmental Benefit Projects**

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The County has experienced a number of COVID-19-related delays with respect to agency reviews of the proposed design of the Cedar Creek Kayak Launch and will be submitting a force majeure notification requesting an extension of time on this project.

## XI.0

## Certification of Completed Activities

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

**Table 8 – 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
DEC Conveyance Team Selects Best-Value Proposal	10/22/2020	2/17/2021	2/17/2021

## XII.0

# Community Relations

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On 10/8/2020, the County provided a Conveyance Project overview to the Mandalay Bay HOA Board. On 10/21/2020, the County held a briefing with South Shore Estuary Reserve on infrastructure improvements at the Bay Park Sewage Treatment Plant. The State and County held a second public information session on 11/12/2020. Following contract approval, the County provided status updates to the Town of Hempstead, Village of Rockville Centre, and the Village of Freeport. The County coordinated with East Rockaway School District on 12/1/2020 regarding NYSED permitting.

**XIII.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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Bay Park Master Schedule 201231</b>																		
<b>Existing Capital Projects</b>																		
<b>S3B119-05G - Generator Controls</b>																		
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 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>																		
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													
<b>S3B120-02G - Grit Removal Facility Improvements</b>																		
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													
<b>S35100-01G - Cleaning &amp; Repair of Digesters &amp; Storage Tanks</b>																		
Construction																		
Construction - Digester Cleaning	720	0	20-May-13 A	16-Apr-15 A	100													
<b>S35114-03G - Sludge Thickening Facility Improvements</b>																		
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													
<b>S35116-01G - Odor Control at Bay Park &amp; Cedar Creek</b>																		
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													
<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													

█ 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
<b>S35121-01G/E - Final Settling Tank Rehabilitation</b>																		
<b>Construction Contract</b>																		
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	58	02-Mar-19 A	26-Feb-21	68													
<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	58	13-Jun-20 A	26-Feb-21	68													
Construction - Raw Sewage Pumping Facility	899	899	27-Feb-21	14-Aug-23*	0													
<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													

■ 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
<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			■										
Bid / Advertise - EDS Phase E3 - Main Substation	36	0	13-Feb-15 A	17-Apr-15 A	100		■											
Bid Opening - EDS Phase E3 - Main Substation	1	0	21-Apr-15 A	21-Apr-15 A	100			■										
Award / NTP - EDS Phase E3 - Main Substation	90	0	22-Apr-15 A	05-Oct-15 A	100			■										
Construction - Phase E3 - Main Substation	1095	0	05-Oct-15 A	01-Sep-20 A	100				■	■	■	■	■	■	■	■	■	■
<b>S35121-14M - Phase E2 &amp; E3 Construction Management</b>																		
<b>CM Contract</b>																		
RFP / Advertise CM Services - Electrical Phase E2 & E3	29	0	25-Jul-14 A	22-Aug-14 A	100		■											
Award / NTP CM Services - Electrical Phase E2 & E3	90	0	23-Aug-14 A	08-Jun-15 A	100		■											
<b>S35123-L33E - Phase E4 Electrical Utility Connections</b>																		
<b>Design Process</b>																		
Preliminary Design - Phase E4 Electrical Utility Connections	90	0	15-Dec-17 A	04-Jun-18 A	100						■							
RFP / Advertise - Final Design - Phase E4 Electrical Utility Connections	29	0	12-Oct-18 A	09-Nov-18 A	100						■							
Award / NTP Final Design - Phase E4 Electrical Utility Connections	120	0	09-Nov-18 A	22-Jan-20 A	100							■	■					
Final Design - Phase E4 Electrical Utility Connections	180	0	22-Jan-20 A	16-Sep-20 A	100								■	■				
PSE&G Coordination	5	655	12-Aug-13 A	16-Oct-22	0													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Phase E4 Electrical Utility Connection	7	0	17-Sep-20 A	24-Sep-20 A	100													
Bid / Advertise - Phase E4 Electrical Utility Connections	29	0	25-Sep-20 A	23-Oct-20 A	100													
Bid Opening - Phase E4 Electrical Utility Connections	1	0	27-Oct-20 A	27-Oct-20 A	100													
Award / NTP - Phase E4 Electrical Utility Connections	180	116	28-Oct-20 A	25-Apr-21	36													
Construction - Phase E4 Electrical Utility Connections	540	540	25-Apr-21	16-Oct-22*	0													
Energize & Commission PSEGLI Power	184	184	17-Oct-22	18-Apr-23*	0													
<b>S35121-16A - Engine Facility Auxiliary Upgrades</b>																		
<b>Design Process</b>																		
Final Design - Engine Facility Auxiliary Upgrades	195	0	01-Nov-15 A	30-Sep-16 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Engine Facility Auxiliary Upgrades	21	0	30-Sep-16 A	20-Oct-16 A	100													
Bid / Advertise - Engine Facility Auxiliary Upgrades	29	0	21-Oct-16 A	18-Nov-16 A	100													
Bid Opening - Engine Facility Auxiliary Upgrades	1	0	22-Nov-16 A	22-Nov-16 A	100													
Award / NTP - Engine Facility Auxiliary Upgrades	90	0	23-Nov-16 A	05-Jul-17 A	100													
Construction - Engine Facility Auxiliary Upgrades	365	0	05-Jul-17 A	30-Aug-19 A	100													
<b>S35121-16G - Secondary Flood Protection &amp; Hardening of Critical Facilities</b>																		
<b>CM Contract</b>																		
RFP / Advertise CM Services - Secondary Flood Protection	29	0	28-Jul-17 A	25-Aug-17 A	100													
Award / NTP CM Services - Secondary Flood Protection	90	0	26-Aug-17 A	02-Dec-19 A	100													
<b>Design Process</b>																		
Preliminary Design - Secondary Flood Protection	90	0	01-Dec-14 A	29-Oct-15 A	100													
Finalize Technical Memorandum - Secondary Flood Protection	45	0	21-Apr-14 A	29-Oct-15 A	100													
RFP / Advertise Final Design - Secondary Flood Protection	29	0	30-Oct-15 A	04-Dec-15 A	100													
Award / NTP Final Design - Secondary Flood Protection	90	0	05-Dec-15 A	08-Nov-16 A	100													
Final Design - Secondary Flood Protection	210	0	09-Nov-16 A	07-Jul-17 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Secondary Flood Protection	7	0	10-Jul-17 A	27-Jul-17 A	100													
Bid / Advertise - Secondary Flood Protection	29	0	27-Oct-17 A	01-Dec-17 A	100													
Bid Opening - Secondary Flood Protection	1	0	05-Dec-17 A	05-Dec-17 A	100													
Award / NTP - Secondary Flood Protection	90	0	06-Dec-17 A	18-Dec-19 A	100													
Construction - Secondary Flood Protection	730	247	18-Dec-19 A	03-Sep-21*	66													
<b>S35121-16P - Heating Hot Water Piping Permanent System</b>																		
<b>CM Contract</b>																		
RFP / Advertise CM Services - Heating Hot Water Piping Permanent System	29	29	16-Mar-21	13-Apr-21	0													
Award / NTP CM Services - Heating Hot Water Piping Permanent System	190	190	14-Apr-21	20-Oct-21	0													

■ Remaining Level of Effort    ■ Actual Work  
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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
<b>Design Process</b>																		
Preliminary Design - Heating Hot Water Piping Permanent System	90	0	02-Nov-15 A	09-Sep-16 A	100													
RFP / Advetise - Final Design - Heating Hot Water Piping Permanent System	29	0	19-Oct-18 A	16-Nov-18 A	100													
Award / NTP Final Design - Heating Hot Water Piping Permanent System	159	0	16-Nov-18 A	16-Sep-20 A	100													
Final Design - Heating Hot Water Piping Permanent System	196	104	16-Sep-20 A	13-Apr-21	47													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Heating Hbt Water Piping Permanent	7	7	14-Apr-21	20-Apr-21	0													
Bid / Advetise - Heating Hot Water Piping Permanent System	29	29	23-Apr-21	21-May-21	0													
Bid Opening - Heating Hot Water Piping Permanent System	1	1	25-May-21	25-May-21	0													
Award / NTP - Heating Hot Water Piping Permanent System	180	180	26-May-21	21-Nov-21	0													
Construction - Heating Hot Water Piping Permanent System	730	730	21-Nov-21	20-Nov-23*	0													
<b>S35121-16TR - Vehicle Fueling &amp; Tanks Reconstruction</b>																		
<b>Design Process</b>																		
Design - Vehide 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 / Advetise - Vehicle Fueling	29	0	09-May-14 A	06-Jun-14 A	100													
Bid Opening - Vehide Fueling	1	0	10-Jun-14 A	10-Jun-14 A	100													
Re-Bid / Advetise - Vehicle Fueling	29	0	27-Mar-15 A	24-Apr-15 A	100													
Bid Opening - Vehide Fueling	1	0	28-Apr-15 A	28-Apr-15 A	100													
Award / NTP - Vehicle Fueling	90	0	29-Apr-15 A	12-Jun-16 A	100													
Construction - Vehide Fueling	274	0	13-Jun-16 A	30-Jan-18 A	100													
<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 / Advetise - 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 / Advetise 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 / Advetise - 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 / Advetise 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>																		

■ 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
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													
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>																		

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







## XIV.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
		2/18/2021
Signature		Date Signed