

January 26, 2022

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

Agreement DEC Index No: CO 1-20170626-244

South Shore Water Reclamation Facility
2021 Q4 Quarterly Report

Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of October 1, 2021 through December 31, 2021.

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>Chris Vella</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> <i>Khanhtran Do</i>	DEC <i>Anthony Leung</i> <i>Katie French</i> <i>Paul Harding</i> <i>Brian Lee</i> <i>Josh Lin</i> <i>Ryan Waldman</i> <i>Andrew Fera</i> <i>Andrew Fleck</i>
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DEC Agreement Q4 2021 Report



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Background

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

The construction of the improvements is catalogued in the Agreement with the New York State Department of Environmental Conservation CO 1-20170626-244 ("Agreement") in January 2018. In accordance with Section VII, Paragraphs A-C of the Modified Agreement the DPW hereby submits to the New York State Department of Environmental Conservation (DEC) the Quarterly Report for the period of October 1, 2021 through December 31, 2021.

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

I.0**Executive Summary**

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, 2021 through December 31, 2021 (“Reporting Quarter”).

II.0

Modification Request and Force Majeure Status

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

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
General Covid-19 FM	N/A	3/19/2020 ²	N/A	6/24/2021	N/A

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

III.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 X.0 of this report indicates certification of completed activities.*

Project Notes:

All agreement design milestones have been completed and certifications accepted.

IV.0

Construction Milestone Status

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

Table 3 – Construction NTP Milestones

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

Table 4 – Construction Completion Milestones

Milestone	Agreement Date	Actual/Forecast	% Complete
1 Barnes Avenue – Baldwin	12/31/2019	10/4/2019 A	100%
2 Raw Sewage Pumping Facility	2/15/2024	10/18/2023	10%
3 Sludge Dewatering Facilities	12/15/2018	5/21/2018 A	100%
4 Effluent Screening and Disinfection	8/22/2023	2/8/2023	33%
5 Effluent Tide Pumping Facilities	1/15/2021	5/5/2020 A	100%
6 Electrical Distribution Phase E1-E3	10/23/2020	9/1/2020 A	100%
7 Secondary Flood Protection	6/17/2022	11/11/2021	95%
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	4/21/2022	71%
16 Level 1 BNR	5/5/2020	4/30/2020 A	100%
17 Sidestream Deammonification	10/3/2022	2/23/2022	95%

* The table in Section X.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:

- Continued patching and parging on interior of new concrete columns.
- Continued tooothing the exterior brick on the electrical building at the new columns.
- Installed vapor barrier on inner brick course and new concrete columns.
- Infilled toothed brick on exterior wall at column locations.
- Installed brick shelf angle steel on the new concrete tie-beam.
- Started installation of exterior brick above brick shelf.
- Demolition of more of the boiler room common wall for structural steel installation.
- Installed shoring for western corridor outside the pump room.
- Installed temporary EF-1 fan and flex duct inside electrical room.
- Finished relocation of fire alarm and camera conduits in the boiler room for new structural steel beams.
- Installed straight ductwork riser insert on the electrical building roof.
- Installed waterproofing on the newly fabricated roof hatch.
- Installed scaffolding in pump room for glazed block infill of boiler control room window.
- Installed glazed block window infill in boiler control room.
- Finished installation of stiffener plates on the boiler room columns.
- Started structural steel floor beams for new electrical room (Elev. +28.06).
- Started relocation of fire alarm pull station in pump room.
- Continued submission of RFI's, submittals, and shop drawings subcontractors/vendors for approval.

Expected Progress Next Quarter:

- Continue tooothing in new exterior brick on the electrical building at the new columns.
- Continue patching and parging on new concrete columns inside electrical building.
- Continue structural steel installation at Elev. +28.06'.
- Complete bolting/welding of connections and pass all inspections.
- Finish relocation of fire alarm pull station in the pump room.
- Complete asbestos and lead abatement on exterior pump room wall for corridor connections.
- Install structural steel floor beams for west corridor.
- Install temporary HVAC & EF-1/EF-2 inside electrical building.
- Install CMU HVAC shaft from +25.08' up to second floor.
- Demolish exterior pump room wall for new interior corridor entrance door.
- Install formwork for second story concrete floor slab @ +29.50.
- Install formwork for concrete corridor floor slab @ +25.08.

- Continue submission of RFI's, Submittals, Shop Drawings and Subcontractor/Vendor approvals.

3. Sludge Dewatering Facilities

This project has been completed and milestone certification accepted.

4. Effluent Screening and Disinfection

Progress This Quarter:

- Continued the installation of effluent spray water piping in the Screening Room.
- Demoed the wall mounted exhaust fan in the Chemical Pump Room.
- Installed a temporary spray water pump and pipeline to Effluent Screen No. 4.
- Continued preparation and submission of administrative and technical submittals.

Expected Progress Next Quarter

- Patch Screening Channel #3 in accordance with the recommendation of the PE inspection.
- Continue the installation of effluent spray water piping in the Screening Room.
- Install a temporary blind flange in the effluent spray water line.
- Started the installation of four 10-inch plug valves in the Screening Room.
- Continue preparation and submission of administrative and technical submittals.
- Accept delivery of the 1st Effluent Screen

5. Effluent Tide Pumping Facilities

This project has been completed and milestone certification accepted.

6. Electrical Distribution System Phases E1-E3

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

7. Secondary Flood Protection

Progress This Quarter:

- Completed testing flood doors and barriers.
- Continued to submit as-built drawings and O&M Manuals.

Expected Progress Next Quarter:

- Finish electrical installation for the mechanical louvers.
- Install sump pump gratings.
- Turn over remaining spare parts.
- Continue As-builts and final O&Ms for close out.
- Issue Substantial Completion.

8. Stormwater Pump Stations

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

9. Upgrade to 3 Simultaneous Generator Operation

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

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

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

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

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

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

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

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

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

14. Lawrence and Sage Lake Pump Stations

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

15. East Avenue Ejector Station

Progress This Quarter:

- Placed concrete for wet well slab ceiling.
- Continued installation of fuel oil pipe.
- Completed installation of sump pumps.
- Started installation of electrical panels in the dry well, entry level.
- Started installation of hatch in the wet well.
- Installed the main feed between the electric platform and the MCC.
- Started core drilling for pump controls.

Expected Progress Next Quarter:

- Continue mechanical & electrical system installation
- Install pipe support system.
- Install generator drainpipe.
- Install hydraulic pipe for grinder.
- Demolish roof.

16. Level 1 BNR

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

17. Sidestream Deammonification

Progress This Quarter:

- Substantial Completion granted on December 22, 2021.
- Continued submission of general conditions items, O&Ms and technical submittals.
- Started End-user/operator training.
- Continued site lighting work.
- Continued installation of electric and control panel installations on DA and EQ Tanks, and Sludge Pump building (for outlets, lighting, heat trace, etc.).
- Continued HVAC punch list work and startup within Sludge Dewatering Building.
- Started exterior piping insulation.
- Continued FRP Cover installation on the DA Tank and EQ Tank.
- Continue I&C equipment and Control Panel installations.
- Continue leakage repair of the tanks.
- Check-out/start-up of WWW and HVAC equipment.
- Started 10-day operational test of the South Tanks Sidestream System.
- Pumped Seed Sludge into the tanks and started the Sidestream Centrate treatment system.

Expected Progress Next Quarter:

- Continue submission of general conditions items, O&Ms and technical submittals.
- Continue End-user/operator training.
- Continue site lighting work.
- Continue installation of electric and control panel installations on DA and EQ Tanks, and Sludge Pump building (for outlets, lighting, heat trace, etc.).
- Continue P-46 conduit and panel installations.
- Continue HVAC punch list work and startup within Sludge Dewatering Building.
- Continue exterior piping insulation.
- Continue FRP Cover installation/repairs on the DA Tank and EQ Tank.
- Continue I&C equipment and Control Panel troubleshooting and installation.
- Continue leakage repair of the tanks.
- Continue Check-out/troubleshooting of WWW and HVAC equipment.
- Start 10-day operational test of the North Tanks Sidestream System.
- Continue monitor and maintaining operation of the Sidestream Centrate treatment process.

V.0

Inter Municipal Agreement

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

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

VI.0

Nitrogen Schedule of Compliance

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

Table 5 – Bay Park WPCP Nitrogen Milestones

Description of Work	Agreement Date	Projected/Actual*
Submit an approvable BNR Operation and Maintenance	1/8/2020	1/8/2020
Begin operation of the 6-month start-up period	6/1/2020	6/1/2020
Begin the 12-month performance period	1/1/2021	1/1/2021
End 12-month performance period	12/31/2021	12/31/2021
Submit performance data	4/1/2022	4/1/2022
Submit an approvable updated BNR O&M and Sidestream O&M Plan	6/1/2022	6/1/2022
Begin operation of the 6-month start-up period for updated BNR and Sidestream O&M plan.	11/1/2022	11/1/2022
Begin the 12-month performance period for updated BNR and Sidestream O&M plan.	5/1/2023	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 X.0 of this report indicates certification of completed activities.

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

The BNR O&M Plan was submitted to DEC on the January 8, 2020 milestone. Comments were received from DEC and upon resolution the plan was accepted April 13, 2020. The 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.

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

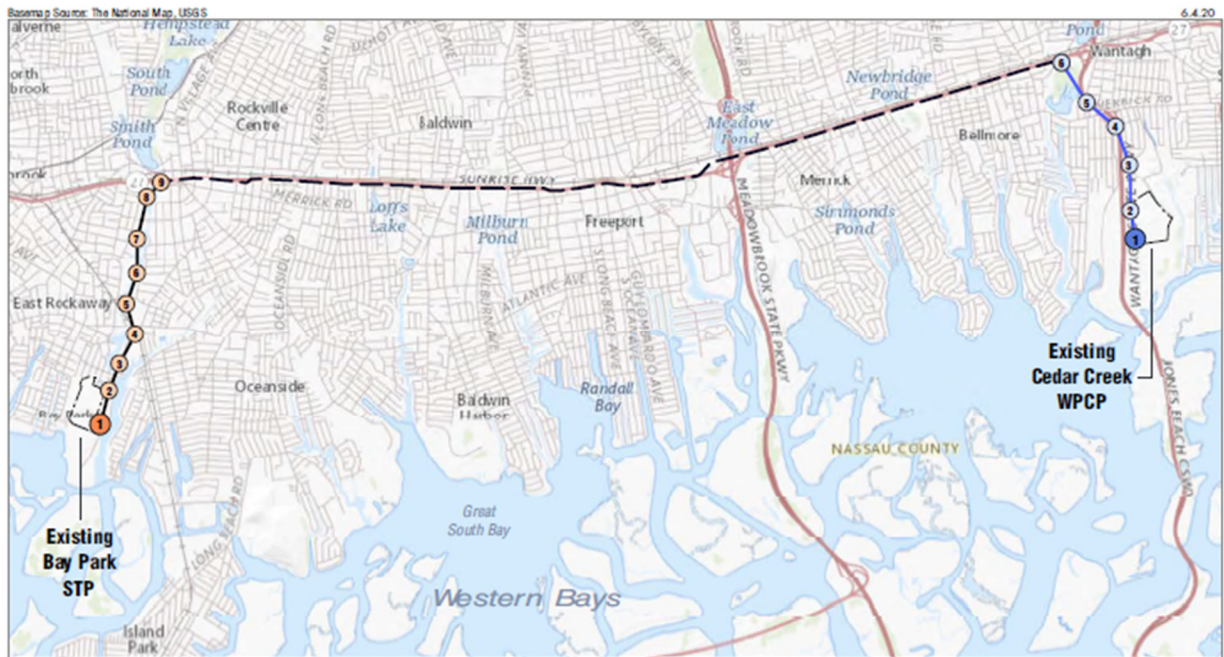
The performance period ended at the end of 2021 and the milestone certification has been submitted. The data is being compiled and a summary will be submitted in the next quarter per the next milestone.

VII.0

Conveyance Project

Executive Summary

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



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

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

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

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

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

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

Table 6 – Initial Conveyance Project Milestones

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

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

Table 7 – Conveyance Project Milestones

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

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

Progress This Quarter:

During 2021 Q4, there was continued progress to advance the overall project objectives, which included the finalization of Work Plans, engineering planning, and data collection/investigation (geotechnical and topographic surveys) in an effort to advance the design development and permitting of design packages. A total of twenty-four (24) design packages at various levels of design for Bay Park Pump Station, Bay Park Microtunnel, Sunrise Highway Sliplining, Cedar Creek Microtunnel, and Cedar Creek Outfall infrastructure/facilities were received. Five (5) design packages were formally approved as RFCD documents.

Pertaining to construction activity, the Design-Builder has advanced and completed the installation of Bay Park Diversion Structure secant piles and started jet grout inverts; completed Shaft BP-2 excavation and construction; and is awaiting MTBM assembly. CSM Panel installation has started at Shafts BP-3, BP-5, and BP-8. In preparation for Sunrise Highway Aqueduct sliplining work, all pipe survey has been completed and pipe cleaning has begun from Work Pit O to Work Pit Q. Along the Cedar Creek Microtunnel alignment, utility relocation work has been completed at Shaft CC-1, guide wall installation has started, and secant piles at Shafts CC-2 and CC-3 has begun. As construction work progresses, construction submittals continue to be received and reviewed. Project mobilization submittals are undergoing revision by the Design-Builder; two (2) out of twelve (12) mobilization submittals require re-submission, and Noise and Vibration Monitoring Plans are still undergoing review and re-submission processes.

The Project's administrative goals in the form of reporting, meetings, document control, schedule management, quality assurance, and oversight activities continued. Construction activities such as shaft excavation and build-out, secant pile and CSM panel installation, jet grouting operations, utility relocations, SWPPP implementation, and other civil preparatory work were recorded relevant to RFCDs. Summarized below are particulars on design, submittals, and construction progress by reach/location over the period.

Bay Park Effluent Diversion Pump Station:

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design, including: Bay Park Wet Well Liner and Internal Structures; Bay Park Near Surface Structures; Bay Park Effluent Diversion Pump Station Building; Bay Park Pump Early Work Design; and Bay Park Hydraulic Modeling. Received three (3) RFCD documents.
- Reviewed and processed numerous construction submittals/work plans for various aspects of the Bay Park Pump Station relative to Jet Grout Plug and Break-in Block Deviation Mitigation Procedure – all locations, revisions to permanent secant concrete mix, Diversion Structure Jet Grout shop drawings, and MOPO – Inspection and Short-Term Repair of Existing Effluent Conduit.
- Jet grouted the Wet Well and performed post-grout verification, excavated Shaft BP-1, poured lower-level ring wall, installed secant piles at the Diversion Structure, and began jet grouting operations of the Diversion Structure invert.

Bay Park Microtunnel:

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design including: Bay Park Microtunnel Drives 2-1, 2-3, 3-4, 5-4, 5-7, 8-7, and 8-9; Bay Park Shafts 2, 3, 4, 5, 7, 8, and 9; and Bay Park Shafts 4, 7, 8, and 9 Support of Excavation. Received two (2) RFCD documents.
- Reviewed and processed numerous work plans and construction submittals, including but not limited to, SWPPPs, Jet Grout Bottom Plug Layouts, and revised mix designs for permanent piles.
- Shaft BP-2 – completed construction of shaft, await MTBM assembly. Shaft BP-3 – guide walls, install CSM panels, jet grout invert, and post grout validation. Shaft BP-4 – re-graded site to change to secant construction. Shaft BP-5 – prepared site for CSM construction. Shaft BP-8 – installed soil mix panels and jet grout invert. Shaft BP-9 – site preparation and cut large trees.

Sunrise Highway Sliplining:

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design, including: Sunrise Highway Slipline and Work Pits A, B, C, D, E, F, FF, G, GG, H, N, O, P, Q, R, S, T, U, V, and W and Utility Protection and Relocation design.
- Reviewed and processed numerous work plans and construction submittals, including but not limited to, SWPPPs, Temporary 5000psi Mix Design for Sunrise Highway Mud Mats/Micro-Tunnel Concrete Liner and Mud Mat, and Temporary Precast Deck Panels for Work Pits S, T, R, and Q.
- Completed all survey openings, completed pipe surveys, and cleaned pipe from Work Pit O to Work Pit Q.

Cedar Creek Microtunnel:

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design, including: Cedar Creek Microtunnel Drives 2-1, 2-3, 4-3, 4-5, and 5-6; Cedar Creek Shafts 1, 2, 3, 4, 5, and 6; and Cedar Creek Shafts 1, 4, 5, and 6 Support of Excavation. Received one (1) RFCD document.
- Reviewed and processed numerous work plans and construction submittals, including but not limited to, SWPPPs, Shaft CC-3 Sanitary Line Manhole, and Cedar Creek Jet Grout Test Program Work Plan.
- Relocated water utility at Cedar Creek Shaft CC-1, installed Shaft CC-1 guide walls, Shaft CC-2 guide walls and secants, Shaft CC-3 guide walls and secants, and performed a portion of a sewer relocation at Shaft CC-3

Cedar Creek Effluent Pump Station/Receiving Station:

- Received and performed detailed quality and compliance reviews for numerous packages at varying levels of design, including: Cedar Creek Pump Station Upgrades; Cedar Creek Receiving Station and Wet Tap; and Cedar Creek Existing 84” Outfall Air Valves and Vault Wet Tap. Received one (1) RFCD document.

Expected Progress Next Quarter:

Bay Park Effluent Diversion Pump Station:

- Anticipate receipt of packages at varying levels of design, including: Bay Park Near Surface Structures; Bay Park Pump Station Building; and Bay Park Hydraulic Modeling. Anticipate receipt of one (1) RFCD revision document.
- To excavate shaft at wet well, pour inner liner to prepare surface for waterproofing, Shaft BP-1 pour inner liner to prepare for surface for waterproofing, continue jet grout of the Diversion Structure, and excavate and brace the Diversion Structure.

Bay Park Microtunnel:

- Anticipate receipt of one (1) RFCD document, including design work for: Bay Park Microtunnel Drives 2-1, 2-3, 3-4, 5-4, 5-7, 8-7, and 8-9 and Bay Park Shafts 2, 3, 4, 5, 7, 8, and 9.
- Anticipate MTBM runs Shaft BP-2 to Shaft BP-1 and Shaft BP-2 to Shaft BP-4. Shaft BP-3 – excavate shaft and prepare for MTBM arrival. Shaft BP-4 – guide walls, secants, and invert jet grout. Shaft BP-5 – CSM panels, jet grout invert and excavate shaft. Shaft BP-7 – soil mix panels and jet grout invert. Shaft BP-8 – excavate shaft and prepare for MTBM launch.

Sunrise Highway Sliplining:

- Anticipate receipt of packages at varying levels of design, including: Sunrise Highway Slipline and Pits A, B, C, D, E, F, FF, G, GG, H, I, K, L, M, N, O, P, Q, R, S, T, U, V, and W; and Sunrise Highway Slipline and Work Pits B, C, D, E, F, FF, G, GG, H, I, K, L, M, and N Utility Protection and Relocation. Anticipate receipt of three (3) RFCD documents and RFCD revision documents.
- Work Pit Q, R, S – install precast road planks, install sheeting, excavate and brace work pits, begin pipe installation from Work Pit O to Work Pit P, and begin pipe installation from Work Pit Q to Work Pit R.

Cedar Creek Microtunnel:

- Anticipate receipt of one (1) RFCD package, including design work for: Cedar Creek Microtunnel Drives 2-1, 2-3, 4-3, 4-5, and 5-6; and Cedar Creek Shafts 1, 2, 3, 4, 5, and 6.
- Shaft CC-1 secant piles and excavation, Shaft CC-2 excavation and jet grout invert, and Shaft CC-3 jet grout and excavate shaft.

Cedar Creek Effluent Pump Station/Receiving Station:

- Anticipate receipt of two (2) RFCD packages, including: Cedar Creek Pump Station Upgrades; and Cedar Creek Receiving Station and Wet Tap.
- No construction work planned for Q1 2022.

VIII.0

Wet Weather Flow Reduction

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

Table 8 – Wet Weather Flow Reduction Milestones

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

The County has issued notice to proceed to their on-call consultant who commenced work on the CMOM and I&I plans on January 9, 2022.

IX.0

Environmental Benefit Projects

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

X.0

Certification of Completed Activities

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

Table 9 – Completed Activities

Milestone	Date Completed	Certification Submitted	Certification Accepted
Effluent Screening and Disinfection – Design	1/5/2018	7/5/2018	9/13/2018
East Avenue Ejector Station - Design	3/2/2018	7/5/2018	9/13/2018
Cedar Dr, Roosevelt et al PS - CC	1/12/2018	7/5/2018	11/27/2018
Wantagh, Newbridge et al PS – CC	2/12/2018	7/5/2018	11/27/2018
Sage Lake and Lawrence PS – CC	8/13/2018	8/24/2018	11/27/2018
Ocean Ave, Mill Road et al PS – CC	8/17/2018	9/19/2018	11/27/2018
Sludge Dewatering Facilities – CC	10/12/2018	10/24/2018	1/4/2019
Inwood, Doughty et al PS – CC	2/19/2019	2/28/2019	5/1/2019
Stormwater Pump Stations – CC	3/28/2019	4/3/2019	4/19/2019
Upgrade to 3 Generator Operation – CC	8/30/2019	9/12/2019	11/7/2019
Barnes Ave-Baldwin – CC	11/22/2019	11/25/2019	2/25/2020
Electrical Distribution Upgrades – CC	9/1/2020	10/23/2020	10/30/2020
Secondary Flood Protection – NTP	12/18/19	12/31/19	12/31/19
Sidestream Deammonification – NTP	12/31/19	12/31/19	12/31/19
East Avenue PS NTP	10/29/20	10/29/20	11/2/2020
Effluent Screening and Disinfection NTP	10/29/20	10/29/20	11/2/2020
Level 1 BNR – CC	4/30/20	5/5/20	10/30/2020
Effluent Pumping Facility – CC	5/5/20	6/10/20	10/30/2020
Submit Approvable BNR O&M Plan	1/8/2020	1/8/2020	4/13/2020
Begin operation of the 6-month start-up period	6/1/2020	7/22/2020	-
Begin performance period BNR	1/1/2021	1/13/2021	1/13/2021
Raw Sewage Pumping Facility NTP	5/3/2021	4/30/2021	5/5/2021
Complete performance period BNR	12/31/2021	1/20/2022	1/21/2022

XI.0

Community Relations

- From October through December 2021, the State, County, and Design Builder engaged in various community engagement initiatives to disseminate project information and field community concerns.
- The State, County, and Design-Builder hosted a meeting presentation to Operation SPLASH on October 5 at 7:30pm. The meeting was conducted in-person at the Operation SPLASH office, and conveyed construction and outreach updates, as well as reinforced the Project's mission.
- On October 7, the State, County, and Design-Builder held a third general public information session (since NTP) over Zoom to update communities on the Project's construction progress, reinforce its mission, and to answer any questions from participants. The meeting was held from 6pm to 7:30pm.
- The Project also hosted a MWDBE-SDVOB opportunity session on October 12 via Microsoft Teams to share information regarding potential opportunities for certified businesses to partake in relevant contracts.
- On November 9, Nassau County Department of Public Works (NCDPW) hosted a meeting presentation to the Nassau County Office of Emergency Management. Along with New York State Department of Environmental Conservation (NYSDEC), NCDPW conveyed how the project will mitigate future disaster-related hazards in Long Island. The meeting was conducted in a hybrid format, with attendees joining in-person at the Project Community Information Center and online via Zoom.
- The State, County and Design-Builder crafted the Bay Park Conveyance Project Microtunnel Boring Machine (MTBM) Naming Contest for schools along the Project corridor. The contest winners were selected in November and a formal naming ceremony was coordinated on November 13. Awarded students, their parents and teachers were invited in-person to the South Shore Water Reclamation Facility for a safely-organized photo opportunity and naming ceremony. Following the naming ceremony, on December 7, 9, and 10, representatives from NCDPW, NYSDEC, and the Design-Builder delivered certificates to all students who participated in the contest.
- A meeting with local elected officials and first responders took place on November 16, where government officials and fire marshals were debriefed on the Project's construction progress, safety measures and traffic control procedures. The invited entities also had the opportunity to ask questions directly to the Project team regarding any concerns.
- A stakeholder meeting including chambers of commerce, and local civic associations, and homeowners' associations also took place during Q4, on November 17. During these meetings, local stakeholders were invited to listen in on the Project's updates and raise any concerns directly to the Project team.

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

2021 Q4 Outreach Summary:

Operation SPLASH meeting: 10/5

Public Information Sessions: 10/7

Project MWDBE-SDVOB opportunity session: 10/12

Nassau County Hazard Mitigation Meeting with Nassau County Office of Emergency Management: 11/9

Monthly recurring meetings:

First Responders and Elected Officials: 11/16

Bay Park Stakeholder, Chambers of Commerce, and Civics: 11/17

Microtunnel Boring Machine Naming Contest:

Naming ceremony: 11/13

Participant certificate delivery: 12/7, 12/9, 12/10

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	2026		
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Bay Park Master Schedule 211231																					
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 Generators	0	0		18-Nov-14 A	100																
Construction - Generator Controls	533	0	15-Nov-13 A	24-Jun-16 A	100																
S3B120-01G - Influent Screening Facility Improvements																					
CM Contract																					
RFP / Advertise CM Services - Influent Screening	30	0	20-Apr-13 A	24-May-13 A	100																
Award / NTP CM Services - Influent Screening	40	0	25-May-13 A	06-Jan-14 A	100																
Construction Contract																					
Bid / Advertise - Influent Screening	40	0	14-Oct-13 A	26-Nov-13 A	100																
Award / NTP - Influent Screening	90	0	27-Nov-13 A	27-May-14 A	100																
Construction - Influent Screening	913	0	27-May-14 A	09-Jun-17 A	100																
S3B120-02G - Grit Removal Facility Improvements																					
CM Contract																					
RFP / Advertise CM Services - Grit Removal	30	0	07-Oct-13 A	25-Oct-13 A	100																
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																
FEMA Scope and Cost Negotiation	90	0	20-Dec-13 A	15-Jan-14 A	100																
S35121-01G/E - Final Settling Tank Rehabilitation																					
Construction Contract																					
Award / NTP - Final Tank Rehabilitation	64	0	21-Aug-13 A	23-Oct-13 A	100																
Construction - Final Tank Rehabilitation	730	0	28-Oct-13 A	13-May-16 A	100																
CM Contract																					
RFP / Advertise CM Services - Final Tank Rehabilitation	30	0	21-Aug-13 A	09-Sep-13 A	100																

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



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
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	0	02-Mar-19 A	12-Feb-21 A	100							■	■	■					
Design Process																			
Finalize Technical Memorandum - Influent Screens & FPS	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	0	13-Jun-20 A	03-May-21 A	100								■	■					
Construction - Raw Sewage Pumping Facility	899	657	03-May-21 A	18-Oct-23*	27									■	■	■	■	■	■
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														
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														
S35121-11G - Effluent Screening & Disinfection																			
CM Contract																			
RFP / Advertise CM Services - Effluent Screening & Disinfection	29	0	01-Feb-19 A	01-Mar-19 A	100							■							
Award / NTP CM Services - Effluent Screening & Disinfection	180	0	02-Mar-19 A	27-Oct-20 A	100							■	■	■					
Design Process																			
Finalize Technical Memorandum - Effluent Screening & Disinfection	45	0	15-Nov-13 A	13-Feb-14 A	100	■													
Prepare Design RFP - Effluent Screening & Disinfection	85	0	30-Dec-13 A	29-Jan-16 A	100	■	■	■											
RFP / Advertise Final Design - Effluent Screening & Disinfection	29	0	29-Jan-16 A	26-Feb-16 A	100				■										
Award / NTP Final Design - Effluent Screening & Disinfection	90	0	06-May-16 A	09-Jan-17 A	100				■										
Final Design - Effluent Screening & Disinfection	300	0	09-Jan-17 A	05-Jan-18 A	100				■										
Bid / Construction																			
County Prepare Bid for Advertisement - Effluent Screening & Disinfection	7	0	01-Jul-18 A	07-Jul-18 A	100														

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



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Bid / Advertise - Effluent Screening & Disinfection	29	0	13-Jul-18 A	10-Aug-18 A	100														
Bid Opening - Effluent Screening & Disinfection	1	0	14-Aug-18 A	14-Aug-18 A	100														
Award / NTP - Effluent Screening & Disinfection	180	0	15-Aug-18 A	04-Nov-20 A	100														
Construction - Effluent Screening & Disinfection	784	405	04-Nov-20 A	08-Feb-23*	48														
S35121-12G - Effluent Pumping Facility Improvements																			
CM Contract																			
RFP / Advertise CM Services - Effluent Tide PB	29	0	01-May-15 A	29-May-15 A	100														
Award / NTP CM Services - Effluent Tide PB	90	0	30-May-15 A	24-Aug-17 A	100														
Design Process																			
Finalize Technical Memorandum - Effluent Tide PB	45	0	12-Aug-13 A	22-Nov-13 A	100														
Preliminary Design - Effluent Tide PB	85	0	26-Sep-13 A	27-Feb-14 A	100														
RFP / Advertise Final Design - Effluent Tide PB	30	0	28-Feb-14 A	28-Mar-14 A	100														
Award / NTP Final Design - Effluent Tide PB	90	0	31-Mar-14 A	08-Dec-14 A	100														
Final Design - Effluent Tide PB	210	0	08-Dec-14 A	07-Jul-15 A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - Effluent Tide PB	7	0	08-Jul-15 A	14-Jul-15 A	100														
Bid / Advertise - Effluent Tide PB	29	0	31-Jul-15 A	11-Sep-15 A	100														
Bid Opening - Effluent Tide PB	1	0	15-Sep-15 A	15-Sep-15 A	100														
Award / NTP - Effluent Tide PB	90	0	16-Sep-15 A	24-Aug-17 A	100														
Construction - Effluent Pumping Facility Improvements	820	0	24-Aug-17 A	05-May-20 A	100														
S35121-13E - Phase E1 Electrical Distribution Systems Improvements																			
CM Contract																			
RFP / Advertise CM Services - Phase E1 EDS	30	0	02-Jan-14 A	24-Jan-14 A	100														
Award / NTP CM Services - Phase E1 EDS	90	0	25-Jan-14 A	07-Jul-14 A	100														
Design Process																			
Phase E1 Design	119	0	15-Aug-13 A	11-Dec-13 A	100														
Finalize Technical Memorandum - Phase 1 EDS	45	0	12-Aug-13 A	03-Jan-14 A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - Phase E1 EDS	7	0	12-Dec-13 A	19-Dec-13 A	100														
Bid / Advertise - Phase E1 EDS	30	0	20-Dec-13 A	31-Jan-14 A	100														
Bid Opening - Phase E1 EDS	1	0	06-Feb-14 A	06-Feb-14 A	100														
Award / NTP - Phase E1 EDS	76	0	07-Feb-14 A	27-May-14 A	100														
Construction - Phase E1 EDS	670	0	27-May-14 A	19-Oct-16 A	100														
S35121-14E - Phase E2 Unit Substation No. 2 & Electrical Distribution																			
Design Process																			
Phase E2 Design - EDS - USS No. 2	155	0	04-Apr-14 A	18-Aug-14 A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - EDS Phase E2 - USS No. 2	7	0	21-Aug-14 A	27-Aug-14 A	100														
Bid / Advertise - EDS Phase E2 - USS No. 2	29	0	29-Aug-14 A	10-Oct-14 A	100														
Bid Opening - EDS Phase E2 - USS No. 2	1	0	14-Oct-14 A	14-Oct-14 A	100														
Award / NTP - EDS Phase E2 - USS No. 2	90	0	15-Oct-14 A	11-May-15 A	100														
Construction - Phase E2 - USS No. 2	660	0	11-May-15 A	29-Sep-17 A	100														
S35121-14F - Phase E3 Main Substation & Electrical Distribution																			
Design Process																			
Phase E3 Design - EDS - Main Substation	285	0	01-Apr-14 A	09-Feb-15 A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - EDS Phase E3 - MSS	7	0	10-Feb-15 A	12-Feb-15 A	100														
Bid / Advertise - EDS Phase E3 - Main Substation	36	0	13-Feb-15 A	17-Apr-15 A	100														
Bid Opening - EDS Phase E3 - Main Substation	1	0	21-Apr-15 A	21-Apr-15 A	100														
Award / NTP - EDS Phase E3 - Main Substation	90	0	22-Apr-15 A	05-Oct-15 A	100														
Construction - Phase E3 - Main Substation (Substantial Completion)	1095	0	05-Oct-15 A	01-Sep-20 A	100														
Construction - Phase E3 - Change Order 118 Switchgear & Transformer	365	76	02-Sep-20 A	16-Mar-22*	79														
S35121-14M - Phase E2 & E3 Construction Management																			
CM Contract																			
RFP / Advertise CM Services - Electrical Phase E2 & E3	29	0	25-Jul-14 A	22-Aug-14 A	100														
Award / NTP CM Services - Electrical Phase E2 & E3	90	0	23-Aug-14 A	08-Jun-15 A	100														
S35123-L33E - Phase E4 Electrical Utility Connections																			
Design Process																			
Preliminary Design - Phase E4 Electrical Utility Connections	90	0	15-Dec-17 A	04-Jun-18 A	100														
RFP / Advertise - Final Design - Phase E4 Electrical Utility Connections	29	0	12-Oct-18 A	09-Nov-18 A	100														
Award / NTP Final Design - Phase E4 Electrical Utility Connections	120	0	09-Nov-18 A	22-Jan-20 A	100														

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

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
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														
Eastem Park Open	0	0		07-Oct-15 A	100														
Construction - Perimeter Flood Protection	740	0	27-May-14 A	09-Jun-17 A	100														
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 PS	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	31	31	06-Jun-23	06-Jul-23	0														
Award / NTP CM Services - Misc Storm Repairs, Mitigation & Restoration	180	180	07-Jul-23	02-Jan-24	0														
Design Process																			
Conceptual Design - Misc Storm Repairs, Mitigation & Site Restoration	90	92	05-Jul-19 A	01-Apr-22	0														
RFP / Advertise - Final Design - Misc Storm Repairs, Mitigation & Site Restoration	29	29	02-Apr-22	30-Apr-22	0														
Award / NTP Final Design - Misc Storm Repairs, Mitigation & Site Restoration	180	180	01-May-22	27-Oct-22	0														
Final Design - Misc Storm Repairs, Mitigation & Site Restoration	270	270	28-Oct-22	24-Jul-23	0														
Bid / Construction																			
County Prepare Bid for Advertisement - Misc Storm Repairs, Mitigation & Site Restoration	10	10	25-Jul-23	03-Aug-23	0														
Bid / Advertise - Misc Storm Repairs, Mitigation & Site Restoration	29	29	04-Aug-23	01-Sep-23	0														
Bid Opening - Misc Storm Repairs, Mitigation & Site Restoration	1	1	05-Sep-23	05-Sep-23	0														
Award / NTP - Misc Storm Repairs, Mitigation & Site Restoration	180	180	06-Sep-23	03-Mar-24	0														

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



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
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	0	06-Apr-19 A	27-Oct-20 A	100														
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														
Award / NTP Final Design - Pump Station 8	90	0	13-Aug-16 A	29-Mar-17 A	100														
Final Design - East Avenue Pump Station	270	0	29-Mar-17 A	23-Dec-17 A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - East Avenue Pump Station	7	0	24-Dec-17 A	07-Mar-19 A	100														
Bid / Advertise - East Avenue Pump Station	29	0	08-Mar-19 A	05-Apr-19 A	100														
Bid Opening - East Avenue Pump Station	1	0	09-Apr-19 A	09-Apr-19 A	100														
Award / NTP - East Avenue Pump Station	180	0	09-Apr-19 A	02-Nov-20 A	100														
Construction - East Avenue Pump Station	540	112	02-Nov-20 A	21-Apr-22*	79														
S3P311-09G - Hempstead Wastewater Pumping Station																			
Design Process																			
RFP / Advertise Final Design - Hempstead Wastewater Pumping Station	29	0	22-Nov-13 A	20-Dec-13 A	100														
Award / NTP Final Design - Hempstead Wastewater Pumping Station	90	0	21-Dec-13 A	29-May-14 A	100														
Final Design - Hempstead Wastewater Pumping Station	185	0	18-Jun-14 A	24-Jun-15 A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - Hempstead Wastewater Pumping Station	7	0	25-Jun-15 A	30-Jun-15 A	100														
Bid / Advertise - Hempstead Wastewater Pumping Station	29	0	03-Jul-15 A	14-Aug-15 A	100														
Bid Opening - Hempstead Wastewater Pumping Station	1	0	18-Aug-15 A	18-Aug-15 A	100														
Award / NTP - Hempstead Wastewater Pumping Station	90	0	19-Aug-15 A	25-Apr-16 A	100														
Construction - Hempstead Wastewater Pumping Station	460	0	25-Apr-16 A	22-Nov-19 A	100														
S3P311-09S - Hempstead Wastewater Force Main																			
Design Process																			
RFP / Advertise Final Design - Hempstead Wastewater Force Main	29	0	22-Nov-13 A	20-Dec-13 A	100														
Award / NTP Final Design - Hempstead Wastewater Force Main	90	0	21-Dec-13 A	29-May-14 A	100														
Final Design - Hempstead Wastewater Force Main	185	0	18-Jun-14 A	24-Jun-15 A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - Hempstead Wastewater Force Main	7	0	25-Jun-15 A	30-Jun-15 A	100														
Bid / Advertise - Hempstead Wastewater Force Main	29	0	03-Jul-15 A	14-Aug-15 A	100														
Bid Opening - Hempstead Wastewater Force Main	1	0	18-Aug-15 A	18-Aug-15 A	100														
Award / NTP - Hempstead Wastewater Force Main	90	0	19-Aug-15 A	25-Apr-16 A	100														
Construction - Hempstead Wastewater Force Main	450	0	25-Apr-16 A	01-May-19 A	100														
S3P311-09M - Hempstead Wastewater Pumping Station & Force Main CM																			
CM Contract																			
RFP / Advertise CM Services - Hempstead Wastewater Pump Sta & FM	29	0	17-Oct-14 A	14-Nov-14 A	100														
Award / NTP CM Services - Hempstead Wastewater Pump Sta & FM	90	0	15-Nov-14 A	01-Feb-16 A	100														
S3P311-10G - Lawrence PS (STP) & Sage Lake PS																			
CM Contract																			
RFP / Advertise CM Services - Lawrence STP & Sage Lake PS	28	0	25-Jan-16 A	22-Feb-16 A	100														
Award / NTP CM Services - Lawrence STP & Sage Lake PS	90	0	23-Feb-16 A	22-Mar-17 A	100														
Design Process																			
Preliminary Design - Lawrence STP & Sage Lake PS	75	0	02-Jun-14 A	12-Sep-14 A	100														
RFP / Advertise Final Design - Lawrence STP & Sage Lake PS	29	0	12-Sep-14 A	10-Oct-14 A	100														
Award / NTP Final Design - Lawrence STP & Sage Lake PS	61	0	11-Oct-14 A	15-Sep-15 A	100														
Final Design - Lawrence STP & Sage Lake PS	180	0	15-Sep-15 A	08-Mar-16 A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - Lawrence STP & Sage Lake PS	7	0	09-Apr-16 A	14-Apr-16 A	100														
Bid / Advertise - Lawrence STP & Sage Lake PS	29	0	15-Apr-16 A	13-May-16 A	100														
Bid Opening - Lawrence STP & Sage Lake PS	1	0	17-May-16 A	17-May-16 A	100														

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



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Award / NTP - Lawrence STP & Sage Lake PS	90	0	18-May-16 A	22-Mar-17 A	100														
Construction - Lawrence STP & Sage Lake PS	550	0	22-Mar-17 A	13-Aug-18 A	100														
S3P311-11G - Roslyn Village, Morgan Park & Shore Road																			
CM Contract																			
RFP / Advertise CM Services - Roslyn Village, Morgan Park & Shore Rd	47	0	05-Oct-18 A	02-Nov-18 A	100														
Award / NTP CM Services - Roslyn Village, Morgan Park & Shore Rd	180	0	03-Nov-18 A	01-Dec-20 A	100														
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	0	13-Dec-17 A	01-Dec-20 A	100														
Construction - Roslyn Village, Morgan Park & Shore Rd	365	183	01-Dec-20 A	01-Jul-22*	50														
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	83	31-Dec-19 A	23-Mar-22*	89														
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														
Bid Opening - Level 1 BNR Improvements	1	0	15-Nov-16 A	15-Nov-16 A	100														

■ Remaining Level of Effort
 ■ Actual Work
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 ■ Remaining Work

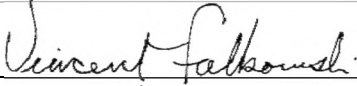
Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Award / NTP - Level 1 BNR Improvements	90	0	16-Nov-16 A	05-Jul-17 A	100														
Construction - Level 1 BNR Improvements (Substantial Completion)	913	0	05-Jul-17 A	30-Apr-20 A	100														
Construction - Cyberprop Change Order	365	0	01-May-20 A	31-Dec-21 A	100														
Long Beach WPCP Consolidation																			
S35109-01GR - Long Beach Pump Station																			
Design Process																			
Pump Station Final Design - Long Beach Pump Station (PMJV)	186	0	06-May-19 A	21-Jul-20 A	100														
Bid / Construction																			
Prepare Bid for Advertisement - Long Beach Pump Station	7	0	22-Jul-20 A	30-Jul-20 A	100														
Bid / Advertise - Long Beach Pump Station	29	0	31-Jul-20 A	23-Oct-20 A	100														
Bid Opening - Long Beach Pump Station	1	0	27-Oct-20 A	27-Oct-20 A	100														
Award / NTP - Long Beach Pump Station - Canceled	205	0	28-Oct-20 A	20-Apr-21 A	100														
Redesign - Long Beach Pump Station	7	0	21-Apr-21 A	18-Nov-21 A	100														
Prepare Bid for Advertisement - Long Beach Pump Station	30	30	31-Dec-21	29-Jan-22	0														
Bid / Advertise - Long Beach Pump Station	29	29	25-Mar-22*	22-Apr-22	0														
Bid Opening - Long Beach Pump Station	1	1	26-Apr-22	26-Apr-22	0														
Award / NTP - Long Beach Pump Station	182	182	27-Apr-22	25-Oct-22	0														
Construction - Long Beach Pump Station	884	884	25-Oct-22	26-Mar-25*	0														
S35109-01S - Long Beach HDD Force Main																			
Design Process																			
HDD Final Design - Long Beach HDD Force Main (PMJV)	186	0	06-May-19 A	24-Nov-21 A	100														
Bid / Construction																			
Prepare Bid for Advertisement - Long Beach HDD Force Main	30	30	31-Dec-21	29-Jan-22	0														
Bid / Advertise - Long Beach HDD Force Main	29	29	25-Mar-22*	22-Apr-22	0														
Bid Opening - Long Beach HDD Force Main	1	1	26-Apr-22	26-Apr-22	0														
Award / NTP - Long Beach HDD Force Main	182	182	27-Apr-22	25-Oct-22	0														
Construction - Long Beach HDD Force Main	828	828	25-Oct-22	29-Jan-25*	0														
S35109-01MR - Long Beach Consolidation CM Contract																			
RFP / Advertise CM Services - Long Beach Consolidation	29	0	12-Jun-20 A	10-Jul-20 A	100														
Award / NTP CM Services - Long Beach Consolidation	180	0	11-Jul-20 A	30-Oct-21 A	100														
Prepare Rebid CM Services - Long Beach Consolidation	29	31	31-Oct-21 A	30-Jan-22	0														
RFP / Advertise CM Services - Long Beach Consolidation	29	29	31-Jan-22	28-Feb-22	0														
Award / NTP CM Services - Long Beach Consolidation	180	180	01-Mar-22	27-Aug-22	0														
S35109-03G - Hempstead Bay Hassocks Restoration																			
CM Contract																			
RFP / Advertise CM Services - Hempstead Bay Hassocks Restoration	31	31	15-Apr-22	15-May-22	0														
Award / NTP CM Services - Hempstead Bay Hassocks Restoration	180	180	16-May-22	11-Nov-22	0														
Design Process																			
Design - Hempstead Bay Hassocks Restoration	120	91	28-Oct-21 A	31-Mar-22	24														
Bid / Construction																			
Prepare Bid for Advertisement - Hempstead Bay Hassocks Restoration	14	14	01-Apr-22	14-Apr-22	0														
Bid / Advertise - Hempstead Bay Hassocks Restoration	29	29	15-Apr-22	13-May-22	0														
Bid Opening - Hempstead Bay Hassocks Restoration	1	1	17-May-22	17-May-22	0														
Award / NTP - Hempstead Bay Hassocks Restoration	198	198	18-May-22	01-Dec-22	0														
Construction - Hempstead Bay Hassocks Restoration	121	121	01-Dec-22	31-Mar-23*	0														
S35109-02G - Austin Boulevard Force Main																			
Design Process																			
Prepare RFP - Austin Boulevard Force Main Design	7	0	05-Feb-16 A	10-Feb-16 A	100														
Issue RFP for On-Call Final Design - Austin Boulevard Force Main	15	0	11-Feb-16 A	26-Feb-16 A	100														
Award / NTP Final Design - Austin Boulevard Force Main Design	14	0	27-Feb-16 A	01-Jun-16 A	100														
Design - Austin Boulevard Force Main	310	0	01-Jun-16 A	07-Sep-18 A	100														
Bid / Construction																			
County Prepare Bid for Advertisement - Austin Boulevard Force Main	7	0	08-Sep-18 A	13-Sep-18 A	100														
Bid / Advertise - Austin Boulevard Force Main	29	0	14-Sep-18 A	09-Nov-18 A	100														
Bid Opening - Austin Boulevard Force Main	1	0	13-Nov-18 A	13-Nov-18 A	100														
Milestones																			
Program Management Award	0	0	12-Aug-13 A		100														
Program Management Complete	0	0		29-Dec-26	0														

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
		1/26/2022
Signature		Date Signed