

January 26, 2023

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
2023 Q4 Quarterly Report

Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of October 1, 2023, through December 31, 2023.

Very truly yours,



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

c:	NCDPW <i>Kenneth Arnold</i> <i>Jane Houdek</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>	DEC <i>Paul Harding</i> <i>Brian Lee</i> <i>Josh Lin</i> <i>Ryan Waldron</i> <i>Andrew Fera</i> <i>Andrew Fleck</i> <i>Jennifer Pilewski</i> <i>Mandy Yau</i> <i>Dena Putnick</i>
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DEC Agreement Q4 2023 Report



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Background

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

The construction of the improvements is catalogued in the Agreement with the New York State Department of Environmental Conservation CO 1-20170626-244 ("Agreement") in January 2018. In accordance with Section VII, Paragraphs A-C of the Modified Agreement the DPW hereby submits to the New York State Department of Environmental Conservation (DEC) the Quarterly Report for the period of October 1, 2023, through December 31, 2023.

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, 2023, through December 31, 2023 (“Reporting Quarter”).

II.0

Modification Request and Force Majeure Status

Table 1 lists modification requests made by the County and DEC responses to date.

There are five (5) Conveyance Project milestones identified by the project team that will not be met per the current schedule. A modification request was submitted on December 7, 2023 to address them. The milestones are:

- Bay Park Effluent Pump Station Construction End
- Cedar Creek Effluent Pump Station/Receiving Station Construction End
- Mechanical Completion
- Substantial Completion
- Final Acceptance

The modification request will include a rationale for the time extension and a projection for completion of these activities.

Table 1 – Modification Requests and Force Majeure Notifications

Milestone	Agreement Date	Mod request date	Revised date requested	DEC Response Date	Modified Milestone Date
General Covid-19 FM	N/A	3/19/2020	N/A	6/24/2021	N/A
Bay Park Microtunnel Shafts Complete*	5/1/2022	4/1/2022	1/3/2023	12/27/2022	9/1/2023
Bay Park Microtunnel Design Complete*	5/1/2022	4/1/2022	7/1/2022	12/27/2022	7/1/2022
Cedar Creek Microtunnel Shafts Complete*	6/1/2022	4/1/2022	3/9/2023	12/27/2022	9/1/2023
WW/Flow Reduction	Various	N/A	Various	12/27/2022	Various
Hassocks Restoration	TBD	N/A	N/A	12/27/2022	Various
RSP Supply Chain Delays		9/13/2022	N/A		
BPEPS Construction End*	12/30/2023	12/7/2023	12/30/2024		
CC EPS Construction End*	12/30/2023	12/7/2023	12/30/2024		
Mechanical Completion*	12/30/2023	12/7/2023	12/30/2024		
Substantial Completion*	7/30/2024	12/7/2023	7/30/2025		
Final Acceptance*	11/30/2024	12/7/2023	11/30/2025		

*Conveyance Project Milestone

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	9/26/2024	83%
3 Sludge Dewatering Facilities	12/15/2018	5/21/2018 A	100%
4 Effluent Screening and Disinfection	8/22/2023	12/23/2022 A	100%
5 Effluent Tide Pumping Facilities	1/15/2021	5/5/2020 A	100%
6 Electrical Distribution Phase E1-E3	10/23/2020	9/1/2020 A	100%
7 Secondary Flood Protection	6/17/2022	1/28/2022 A	100%
8 Stormwater Pump Stations	3/31/2019	3/28/2019 A	100%
9 Upgrade To 3 Generator Operation	5/19/2019	8/30/2019 A	100%
10 Cedar Dr, Roosevelt et al PS	5/8/2018	1/12/2018 A	100%
11 Wantagh, Newbridge et al PS	4/25/2018	2/12/2018 A	100%
12 Ocean Ave, Mill Rd et al PS	12/5/2018	8/17/2018 A	100%
13 Inwood, Doughty et al PS	7/4/2019	5/13/2019 A	100%
14 Lawrence & Sage Lake PS	8/30/2018	8/13/2018 A	100%
15 East Avenue Ejector Station	10/31/2022	10/17/2022 A	100%
16 Level 1 BNR	5/5/2020	4/30/2020 A	100%
17 Sidestream Deammonification	10/3/2022	9/20/2022 A	100%

* 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 installation of rigid conduit and wiring for power and controls.
- Continued installation of metal cladding for boiler structural beam fireproofing.
- Completed 10-day test of RSP No. 5.
- Started Demolition of wire and conduit and piping in the electrical/pump room for RSP No. 4.
- Continued wiring and terminations of equipment inside electrical/pump room.
- Finished testing of North 48” gate valve extensions in pump room.
- Started installation of South 48” gate valve extension.
- Continued installation of process equipment and instrumentation.
- Continued connecting to local control stations, control panels, and disconnects inside pump room.
- Finished installation of electrical conduit on pump room conduit rack system.
- Completed Air Compressor and VFD training.
- Continue work on miscellaneous metal incomplete items list for stair tower and catwalk.
- Continued submission of RFI’s, MOPOs, and submittals.

Expected Progress Next Quarter:

- Continue miscellaneous metal incomplete items list for stair tower and catwalk.
- Continued installation of metal cladding for boiler structural beam fireproofing.
- Finish installation and testing of South 48” gate valve extensions in pump room.
- Finish demolition of RSP No 4 conduit and wiring.
- Demolish RSP No. 4 motor, pump, and rheostat.
- Realigned 30” discharge piping for new submersible pump.
- Layout, form and pour new RSP No. 4 concrete pedestals.
- Deliver and install new Vertical submersible Pump No. 4.
- Start installation of pump room conduit and wiring for RSP No. 4.
- Start installation of piping, valves, and support for RSP No. 4.
- Finish installation of radar level system conduit from scavenger waste to new electrical room.
- Continue scheduling spare parts, O&M, training for RSP system.
- Continue submission of RFI’s, MOPOs, and Submittals.

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

3. Sludge Dewatering Facilities

This project has been completed and milestone certification accepted.

4. Effluent Screening and Disinfection

Progress This Quarter:

- Removed two new Isolation Butterfly Valves.
- Started to demo existing Isolation Butterfly Valve
- Scarified floor paint from Screening area floor.
- Installed wiring to the freezestat in the HVAC Unit (HV-60805) downstream of the hot water coil.
- Installed wiring to the airflow switch and temperature transmitter in the HVAC discharge ductwork.
- Continued submission of as-built drawings.

Expected Progress Next Quarter

- Correct flowmeter scaling in accordance with RFI-017 Magmeter Scaling.
- Conduct flowmeter training.
- Complete demo of existing Isolation Butterfly Valve.
- Repaint Screening area floor.
- Startup and test HVAC system.
- Program existing Chemical System Control Panel.
- Continue preparation and submission of as-built drawings.

Note: Current schedule for Effluent Screening has been behind schedule due to equipment delivery delays and non-performance of a manufacturer. DEC has been notified and updated quarterly. All screens are installed and operating but the delays are exclusively related to the isolation valves. Due to the non-performance of this vendor, the County is deleting the remaining isolation valves in this contract and installing stop logs to provide the channel isolation required for maintenance. Once this change is executed, substantial completion for this contract will be issued for December 23, 2022.

5. Effluent Tide Pumping Facilities

This project has been completed and milestone certification accepted.

6. Electrical Distribution System Phases E1-E3

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

7. Secondary Flood Protection

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

8. Stormwater Pump Stations

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

9. Upgrade to 3 Simultaneous Generator Operation

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

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

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

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

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

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

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

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

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

14. Lawrence and Sage Lake Pump Stations

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

15. East Avenue Ejector Station

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

16. Level 1 BNR

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

17. Sidestream Deammonification

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

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 South Shore WRF.

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

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

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	3/1/2024
End 12-month performance period for updated BNR and Sidestream O&M plan.	4/30/2024	2/28/2025
Submit performance data and approvable Final BNR and Sidestream O&M Plan.	8/1/2024	7/1/2025

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

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

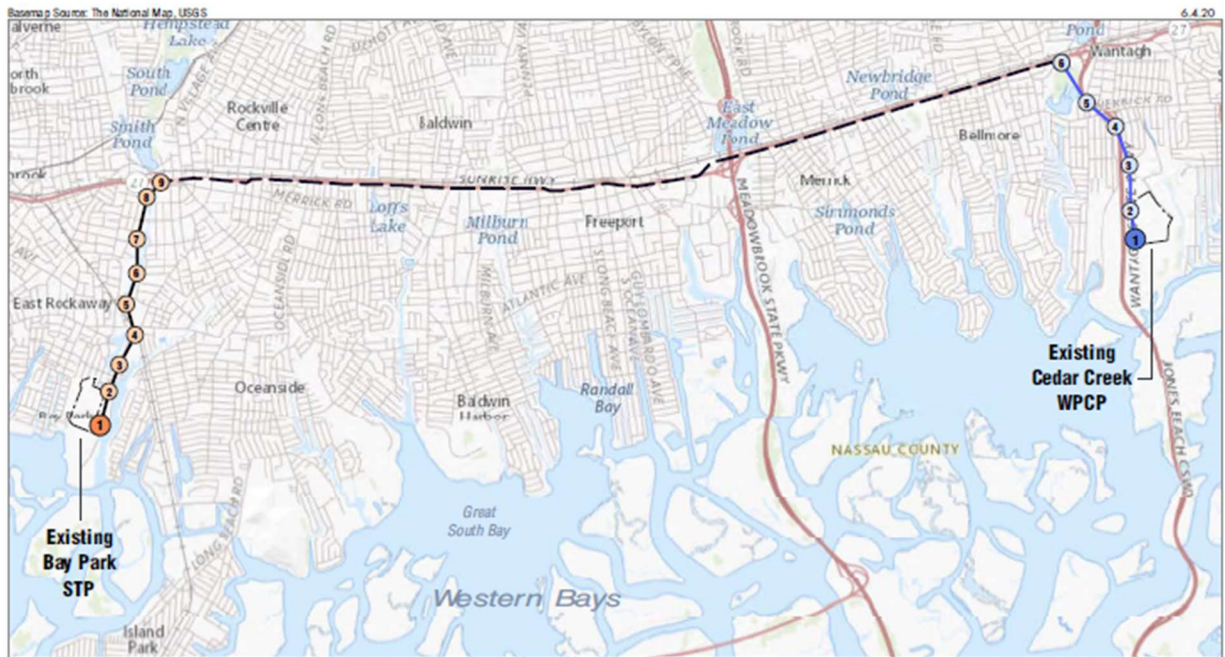
Operational issues upstream of the Sidestream Facility have delayed the implementation of the performance period. A change order was executed to alleviate the issues and allow for the performance period to begin. During the period of hydraulic limitation issues, the biology mass was reduced significantly and more time is required to re-establish it. A request to extend the beginning of the performance period to March 1, 2024 was submitted to DEC on November 29, 2023.

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 (now known as the South Shore WRF) to Cedar Creek WPCP would remove between 75 to 90 percent of the nitrogen currently discharged into the Western Bays.



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

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

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

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

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

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

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		

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	9/1/2023	8/26/2023	9/5/2023	9/5/2023
BPM Design Complete	2.4	7/1/2022	6/28/2022	6/28/2022	6/29/2022
BPM Construction End	2.5	12/30/2023	12/30/2023*		
CCM Construction Start	3.1	12/1/2022	12/1/2022	11/8/2022	11/19/2022
CCM Design Start	3.2	7/1/2021	6/29/2021	6/29/2021	7/2/2021
CCM Shafts Complete	3.3	9/1/2023	2/2/2023	9/5/2023	9/5/2023
CCM Design Complete	3.4	9/1/2022	6/28/2022	6/28/2022	6/29/2022
CCM Construction End	3.5	12/30/2023	12/30/2023*		
BPEPS Construction Start	4.1	5/1/2021	5/1/2021	5/12/2021	5/12/2021
BPEPS Design Start	4.2	4/1/2021	4/15/2021	4/16/2021	4/19/2021
BPEPS Design Completion	4.3	10/1/2022	10/1/2022	10/11/2022	10/12/2022
BPEPS Construction End	4.4	12/30/2023	12/30/2023**		
SHA Rehabilitation Construction Start	5.1	10/1/2021	10/1/2021	9/28/2021	9/29/2021
SHA Rehabilitation Design Start	5.2	4/1/2021	4/15/2021	4/16/2021	4/19/2021
SHA Rehabilitation Design Complete	5.3	12/30/2022	12/30/2022	10/11/2022	10/12/2022
SHA Rehabilitation Construction End	5.4	12/30/2023	12/30/2023*		
CCEPS/RS Construction Start	6.1	8/1/2022	5/25/2022	5/25/2022	6/1/2022
CCEPS/RS Design Start	6.2	8/1/2021	6/29/2021	6/29/2021	7/2/2021
Cedar Creek Outfall Repair	6.3	12/1/2021	12/1/2021	11/19/2021	12/3/2021
CCEPS/RS Design Completion	6.4	10/1/2022	10/1/2022	10/11/2022	10/12/2022
CCEPS/RS Construction End	6.5	12/30/2023	12/30/2023**		
Mechanical Completion	7	12/30/2024	12/30/2024**		
Substantial Completion	8	7/30/2024	7/30/2024**		
Final Acceptance	9	11/30/2024	11/30/2024**		

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

*Certification submission pending

** Modification for time extension submitted 12/7/2024

Progress This Quarter:

During 2023 Quarter No. 4, there was continued progress to advance the overall project objectives, which included review and approval of subsequent design changes, RFCDs, RFIs, and design and construction submittals.

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

Bay Park Effluent Diversion Pump Station:

- RCFD DP-10B Design Narrative SCADA Tie-in and NDC-0036 - BPEDPS Pump Level Monorail Trolley and Hoist were reviewed and approved. NDC-0037 - Revised Spec 13570 - Criteria Control was received for review.
- Reviewed and processed numerous construction submittals, including but not limited to, test reports for VFD #s 1-4, power connection cabinet shop test reports for VFD #s 1-4, 4.16kV switchgear test procedure checklist, roofing package, and plumbing drawings. Other submittals that were reviewed and processed were related to 5kV cable terminations, exterior structural steel high performance coatings, louver and its support system, lightning protection system, pump room level 4-ton monorail system, and electrical room level 0.5-ton monorail system.
- Installation of CMU walls at BPPS completed. Installation of steel truss support completed. Installation of concrete floor slope at wet well completed. Floor drains were completed in the interior structure. Continuing with forming/pouring/curing walls and Diversion Structure channel roof slabs. Continuing with installation of permanent slab support above Effluent Conduit at Pump Station foundation. Started installation of roof structure and parapets structure. Continuing with installation of waterproofing and furring for exterior siding low and high structure. Continuing with installation of storm piping down outside of building, 1st floor horizontal and riser drain piping.

Bay Park Microtunnel:

- NDC-0038 - RFP-10 Additional Landscape Restoration was received for review.
- Reviewed and processed numerous construction submittals, related to BP5 and BP9 manhole riser and top slab elevations, flowcrete grout port repair procedure, flowcrete FRP spigot/coupling repair procedure, and piping from BP9 to Sunrise Highway.
- Restoration at BP2 was completed. Backfilling BP3 for BP3 to BP4 drive was completed. Micro-tunnel drive BP8 to BP7 was completed. Delivery of all micro-tunneling pipe was completed.

Sunrise Highway Sliplining:

- NDC-033 UCD-012 CARV - Redesign Pit B, FF, M, S and NDC-0038 - RFP-10 Additional Landscape Restoration were received for review.

- Reviewed and processed numerous construction submittals, including but not limited to, piping shop drawings from CC6 to Pit W and BP9 to Sunrise Highway, manhole steps, and product data of manhole platforms, grating, and ladder.
- Final restoration at Pits B, C, E, F, FF, G, GG, H, I, K, M, N, Q, R, S, T, U, and V completed.

Cedar Creek Microtunnel:

- NDC-0038 - RFP-10 Additional Landscape Restoration was received for review.
- Reviewed and processed numerous construction submittals, related to CC6 manhole riser and top slab elevations, flowcrete grout port repair procedure, flowcrete FRP spigot/coupling repair procedure, piping shop drawings from CC6 to Pit W, and shop drawings of CC2 manhole platforms, grating, and ladder.
- Restoration of street/curbs at Sunrise Highway elevation for micro-tunnel Pit W to CC6 completed. Fabrication and delivery of all Cedar Creek piping was completed. Base slab at CC1 was poured. Installation of connecting pipe to Cedar Creek at drive CC2-CC1 was completed. Stripping/grouting of tunnel lines were completed at drive CC5-CC6.

Cedar Creek Effluent Pump Station/Receiving Station:

- RCFD DP-10B Design Narrative SCADA Tie-in was reviewed and approved. DPP-026 - Discussion of Carbon Steel for CCRS Standpipe Tank, NDC-0035 - RFP-006 Standpipe Modifications, and NDC-0037 - Revised Spec 13570 - Criteria Control were received for review.
- Reviewed and processed numerous construction submittals, including shop drawings and product data for SG-07 vent pipe, Cedar Creek Receiving Station Tank field painting construction work plan, Cedar Creek Receiving Tank bypass piping shop drawings, test reports for VFD #s 1-5, and power connection cabinet shop test reports for VFD #s 1-5. Other submittals that were reviewed and processed were related to 5kV cable terminations, steel pipe support frame, and lightning protection system.
- Installation and welding of Receiving Tank roof was completed. Installation of Receiving Tank overflow piping was completed. Pipe supports for Receiving Tank were installed.

Expected Progress Next Quarter:

Bay Park Effluent Diversion Pump Station:

- No more contractual design submissions for Bay Park Pump Station are anticipated.
- Continue with installation of utilities at BPPS and wet well. Continue and finish roof installation for Pump Station.

Bay Park Microtunnel:

- Revised submission of NDC-0038 - RFP-10 Additional Landscape Restoration is anticipated.
- Continue and finish restoration work at BP3 and BP4. Continue with closure pipe bracing and installation and backfill at BP4. Setup hydrotest from BP1 to BP5. Continue with stripping/grouting tunnel lines and de-mobilizing micro-tunneling equipment for BP8 to BP7 drive.

Sunrise Highway Sliplining:

- Revised submissions of NDC-033 UCD-012 CARV - Redesign Pit B, FF, M, S and NDC-0038 - RFP-10 Additional Landscape Restoration are anticipated.
- Continue with aqueduct and manhole inspection for pipe run from Pit M to Pit O. Complete Pit W restoration. Continue hydrostatic test from Pit A to Pit O.

Cedar Creek Microtunnel:

- Revised submission of NDC-0038 - RFP-10 Additional Landscape Restoration is anticipated.
- Continue excavation/installation of pile SOE for open cut and excavation from shaft CC1 to outfall and install steel plates from CC1 to foundation pad. Set up CC hydrotest. Continue installation of riser pipe at CC6.

Cedar Creek Effluent Pump Station/Receiving Station:

- Revised submission of DPP-026 - Discussion of Carbon Steel for CCRS Standpipe Tank and NDC-0035 - RFP-006 Standpipe Modifications are anticipated. Submission of RFCD DP-11 Rehabilitation of the Cedar Creek Outfall Clean-out Chamber and Cap is also anticipated.
- Continue with installation of 72" pipe from CC1 to outfall connection. Continue with installation of wet tap saddle and 72" knife gate valve. Perform wet tap on existing 84" outfall. Continue with pump removal/replacement and installation of conduits for Pump Station at Cedar Creek Plant. Finish painting the overflow pipe of Receiving Tank.

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

Both the CMOM and I/I Study Plans have been accepted by DEC in this reporting quarter and the County is proceeding with the initiation of these plans by issuing an RFP in Q1, 2024.

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 plan resubmittal was approved by the DEC Region 1 permitting group on June 6, 2022 and the USACE application was submitted on July 11, 2022. It has become apparent that the permit was not sent to the appropriate party at USACE and the County will be hiring a new consultant to carry this task out.

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
Secondary Flood Protection – CC	1/28/2022	2/2/2022	4/22/2022
Sidestream Deammonification – NTP	12/31/19	12/31/19	12/31/19
East Avenue PS NTP	10/29/2020	10/29/20	11/2/2020
Effluent Screening and Disinfection NTP	10/29/2020	10/29/20	11/2/2020
Level 1 BNR – CC	4/30/2020	5/5/20	10/30/2020
Effluent Pumping Facility – CC	5/5/2020	6/10/20	10/30/2020
Sidestream Deammonification – CC	11/22/2021	10/10/2022	11/22/2022
Submit Approvable BNR O&M Plan	1/8/2020	1/8/2020	4/13/2020
Begin operation of the 6-month start-up period	6/1/2020	7/22/2020	11/8/2022
Begin performance period BNR	1/1/2021	1/13/2021	1/13/2021
Raw Sewage Pumping Facility NTP	5/3/2021	4/30/2021	5/5/2021
Complete performance period BNR	12/31/2021	1/20/2022	1/21/2022
Submit Approvable Revised BNR O&M Plan	6/1/2022	6/1/2022	6/29/2022

Milestone	Date Completed	Certification Submitted	Certification Accepted
Submit CMOM plans for South Shore and Cedar Creek	1/26/2023	1/26/2023	7/31/2023
Submit Operation Plan for Conveyance System	3/7/2023	3/7/2023	11/1/2023
Submit I/I Study Work Plans	3/30/2023	3/30/2023	10/12/2023

XI.0

Community Relations

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

Meetings with local elected officials and first responders took place on October 31 and November 28, where government officials and fire marshals were briefed on the Project’s construction progress, safety measures and traffic control procedures. The invited entities also had the opportunity to ask questions directly to the Project team regarding any concerns.

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

2023 Q3 Outreach Summary:

Item/ Description	Dates
Monthly Meeting with First Responders and Elected Officials	<ul style="list-style-type: none"> • October 31 • November 28

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	2027	2028
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Bay Park Master Schedule 231231																					
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 Offline / 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 / Advise 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 / Advise - 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 / Advise 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 / Advise - 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 / Advise 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 / Advise 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 / Advise 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	2027	2028
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 & RPS	45	0	21-Apr-14 A	30-Jun-14 A	100	■															
Preliminary Design - Raw Sewage Pumping Facility	88	0	01-Jul-14 A	23-Feb-15 A	100		■														
RFP / Advertise Final Design - Raw Sewage Pumping Facility	29	0	27-Feb-15 A	27-Mar-15 A	100			■													
Award / NTP Final Design - Raw Sewage Pumping Facility	90	0	30-Mar-15 A	01-Mar-16 A	100				■												
Final Design - Raw Sewage Pumping Facility	210	0	01-Mar-16 A	26-Sep-16 A	100					■											
Bid / Construction																					
County Prepare Bid for Advertisement - Raw Sewage Pumping Facility	1	0	01-Feb-19 A	01-Feb-19 A	100																
Bid / Advertise - Raw Sewage Pumping Facility	29	0	01-Feb-19 A	08-Mar-19 A	100							■									
Bid Opening - Raw Sewage Pumping Facility	1	0	12-Mar-19 A	12-Mar-19 A	100																
Award / NTP - Raw Sewage Pumping Facility	180	0	13-Mar-19 A	12-Jun-20 A	100							■									
Award / NTP - Raw Sewage Pumping Facility to 2nd Low Bidder	180	0	13-Jun-20 A	03-May-21 A	100								■								
Construction - Raw Sewage Pumping Facility	899	271	03-May-21 A	26-Sep-24*	70									■							
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	2027	2028		
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	130	04-Nov-20 A	08-May-24*	83																		
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	32	02-Sep-20 A	31-Jan-24*	91																		
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																		

■ 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	2027	2028		
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
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	26	12-Aug-13 A	25-Jan-24	0																		
Bid / Construction																							
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	0	28-Oct-20 A	14-Jun-21 A	100																		
Construction - Phase E4 Electrical Utility Connections	540	26	15-Jun-21 A	25-Jan-24*	95																		
Energize & Commission PSEGLI Power	0	0		25-Jan-24*	0																		
PSEG-LI - Phase E4 Primary Power by PSEG-LI																							
Construction																							
Construction - Phase E4 Primary Power by PSEG-LI	540	0	02-Oct-20 A	17-Aug-23 A	100																		
S35121-16A - Engine Facility Auxiliary Upgrades																							
Design Process																							
Final Design - Engine Facility Auxiliary Upgrades	195	0	01-Nov-15 A	30-Sep-16 A	100																		
Bid / Construction																							
County Prepare Bid for Advertisement - Engine Facility Auxiliary Upgrades	21	0	30-Sep-16 A	20-Oct-16 A	100																		
Bid / Advertise - Engine Facility Auxiliary Upgrades	29	0	21-Oct-16 A	18-Nov-16 A	100																		
Bid Opening - Engine Facility Auxiliary Upgrades	1	0	22-Nov-16 A	22-Nov-16 A	100																		
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																		
S35121-16G - Secondary Flood Protection & Hardening of Critical Facilities																							
CM Contract																							
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																		
Design Process																							
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																		
Bid / Construction																							
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	0	18-Dec-19 A	28-Jan-22 A	100																		
S35121-16P - Heating Hot Water Piping Permanent System																							
CM Contract																							
RFP / Advertise CM Services - Heating Hot Water Piping Permanent System	29	0	24-Sep-21 A	22-Oct-21 A	100																		
Award / NTP CM Services - Heating Hot Water Piping Permanent System	180	0	23-Oct-21 A	05-Sep-23 A	100																		
Design Process																							
Preliminary Design - Heating Hot Water Piping Permanent System	90	0	02-Nov-15 A	09-Sep-16 A	100																		
RFP / Advertise - Final Design - Heating Hot Water Piping Permanent System	29	0	19-Oct-18 A	16-Nov-18 A	100																		
Award / NTP Final Design - Heating Hot Water Piping Permanent System	159	0	16-Nov-18 A	16-Sep-20 A	100																		
Final Design - Heating Hot Water Piping Permanent System	196	0	16-Sep-20 A	13-Jan-22 A	100																		
Bid / Construction																							
County Prepare Bid for Advertisement - Heating Hot Water Piping Permanent	7	0	14-Jan-22 A	03-Feb-22 A	100																		
Bid / Advertise - Heating Hot Water Piping Permanent System	29	0	04-Feb-22 A	25-Mar-22 A	100																		
Bid Opening - Heating Hot Water Piping Permanent System	1	0	29-Mar-22 A	29-Mar-22 A	100																		
Award / NTP - Heating Hot Water Piping Permanent System	180	0	30-Mar-22 A	04-Sep-23 A	100																		
Construction - Heating Hot Water Piping Permanent System	730	613	05-Sep-23 A	03-Sep-25*	16																		
S35121-16TR - Vehicle Fueling & Tanks Reconstruction																							
Design Process																							
Design - Vehicle Fueling	53	0	10-Mar-14 A	02-May-14 A	100																		
Bid / Construction																							
County Prepare Bid for Advertisement - Vehicle Fueling	7	0	02-May-14 A	08-May-14 A	100																		
Bid / Advertise - Vehicle Fueling	29	0	09-May-14 A	06-Jun-14 A	100																		
Bid Opening - Vehicle Fueling	1	0	10-Jun-14 A	10-Jun-14 A	100																		
Re-Bid / Advertise - Vehicle Fueling	29	0	27-Mar-15 A	24-Apr-15 A	100																		

■ 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	2027	2028		
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Bid Opening - Vehicle Fueling	1	0	28-Apr-15 A	28-Apr-15 A	100																		
Award / NTP - Vehicle Fueling	90	0	29-Apr-15 A	12-Jun-16 A	100																		
Construction - Vehicle Fueling	274	0	13-Jun-16 A	30-Jan-18 A	100																		
S35121-16V - Dechlorination Vault Storm Mitigation																							
Design Process																							
Design - Dechlor Sample Vault Hardening	180	0	27-Mar-15 A	22-Oct-15 A	100																		
Bid / Construction																							
County Prepare Bid for Advertisement - Dechlor Sample Vault Hardening	7	0	23-Oct-15 A	29-Oct-15 A	100																		
Bid / Advertise - Dechlor Sample Vault Hardening	36	0	30-Oct-15 A	04-Dec-15 A	100																		
Bid Opening - Dechlor Sample Vault Hardening	1	0	08-Dec-15 A	08-Dec-15 A	100																		
Award / NTP - Dechlor Sample Vault Hardening	90	0	12-Dec-15 A	11-May-16 A	100																		
Construction - Dechlor Sample Vault Hardening	270	0	11-May-16 A	11-Aug-17 A	100																		
S35121-17G - Perimeter Flood Protection																							
CM Contract																							
RFP / Advertise CM Services - Perimeter Flood Protection	30	0	10-Jan-14 A	07-Feb-14 A	100																		
Award / NTP CM Services - Perimeter Flood Protection	90	0	08-Feb-14 A	30-Jun-14 A	100																		
Design Process																							
Geotech Borings - Perimeter Flood Protection	85	0	12-Aug-13 A	17-Dec-13 A	100																		
Permitting (EAS) - Perimeter Flood Protection	125	0	12-Aug-13 A	17-Dec-13 A	100																		
Berm Design - Perimeter Flood Protection	83	0	26-Sep-13 A	17-Dec-13 A	100																		
Finalize Technical Memorandum - Perimeter Flood Protection	45	0	12-Aug-13 A	17-Dec-13 A	100																		
Public Review/Comment Period	30	0	17-Dec-13 A	16-Jan-14 A	100																		
Bid / Construction																							
County Prepare Bid for Advertisement - Perimeter Flood Protection	7	0	17-Jan-14 A	23-Jan-14 A	100																		
Bid / Advertise - Perimeter Flood Protection	29	0	24-Jan-14 A	14-Mar-14 A	100																		
Bid Opening - Perimeter Flood Protection	1	0	18-Mar-14 A	18-Mar-14 A	100																		
Award / NTP - Perimeter Flood Protection	76	0	19-Mar-14 A	27-May-14 A	100																		
Eastern Park Open	0	0		07-Oct-15 A	100																		
Construction - Perimeter Flood Protection	740	0	27-May-14 A	09-Jun-17 A	100																		
S35121-18G - Flood Protection Phase 1 Stormwater Pumping Stations																							
CM Contract																							
RFP / Advertise CM Services - Flood Protection Phase 1 Stormwater PS	29	0	31-Jul-15 A	28-Aug-15 A	100																		
Award / NTP CM Services - Flood Protection Phase 1 Stormwater PS	90	0	29-Aug-15 A	17-Jun-16 A	100																		
Design Process																							
Preliminary Design Flood Protection Phase 1 Stormwater PS	97	0	18-Dec-13 A	17-Apr-14 A	100																		
RFP / Advertise Final Design Flood Protection Phase 1 Stormwater PS	29	0	18-Apr-14 A	16-May-14 A	100																		
Award / NTP Final Design Flood Protection Phase 1 Stormwater PS	90	0	17-May-14 A	10-Nov-14 A	100																		
Final Design Flood Protection Phase 1 Stormwater PS	210	0	10-Nov-14 A	28-Aug-15 A	100																		
Bid / Construction																							
County Prepare Bid for Advertisement - Flood Protection Phase 1 Stormwater	7	0	28-Aug-15 A	03-Sep-15 A	100																		
Bid / Advertise - Flood Protection Phase 1 Stormwater PS	29	0	04-Sep-15 A	02-Oct-15 A	100																		
Bid Opening - Flood Protection Phase 1 Stormwater PS	1	0	06-Oct-15 A	06-Oct-15 A	100																		
Award / NTP - Flood Protection Phase 1 Stormwater PS	90	0	30-Sep-15 A	31-May-16 A	100																		
Construction - Flood Protection Phase 1 Stormwater PS	760	0	31-May-16 A	24-Jun-19 A	100																		
S35121-18S - Flood Protection Phase 2 Stormwater Green Infrastructure																							
Design Process																							
Preliminary Design - Flood Protection Phase 2 Stormwater GI	96	0	31-Jan-16 A	26-May-16 A	100																		
RFP / Advertise - Final Design Flood Protection Phase 2 Stormwater GI	29	0	27-May-16 A	24-Jun-16 A	100																		
S35123-L37G - Miscellaneous Storm Repairs, Mitigation & Site Restoration																							
CM Contract																							
RFP / Advertise CM Services - Misc Storm Repairs, Mitigation & Restoration	31	31	03-Jun-25	03-Jul-25	0																		
Award / NTP CM Services - Misc Storm Repairs, Mitigation & Restoration	180	180	04-Jul-25	30-Dec-25	0																		
Design Process																							
Conceptual Design - Misc Storm Repairs, Mitigation & Site Restoration	200	89	05-Jul-19 A	28-Mar-24	56																		
RFP / Advertise - Final Design - Misc Storm Repairs, Mitigation & Site Restora	29	29	29-Mar-24	26-Apr-24	0																		
Award / NTP Final Design - Misc Storm Repairs, Mitigation & Site Restoration	180	180	27-Apr-24	23-Oct-24	0																		
Final Design - Misc Storm Repairs, Mitigation & Site Restoration	270	270	24-Oct-24	20-Jul-25	0																		
Bid / Construction																							
County Prepare Bid for Advertisement - Misc Storm Repairs, Mitigation & Site	11	11	21-Jul-25	31-Jul-25	0																		
Bid / Advertise - Misc Storm Repairs, Mitigation & Site Restoration	29	29	01-Aug-25	29-Aug-25	0																		
Bid Opening - Misc Storm Repairs, Mitigation & Site Restoration	1	1	02-Sep-25	02-Sep-25	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	2027	2028
Award / NTP - Misc Storm Repairs, Mitigation & Site Restoration	180	180	03-Sep-25	01-Mar-26	0																
Construction - Misc Storm Repairs, Mitigation & Site Restoration	731	731	01-Mar-26	29-Feb-28*	0																
S3B119-06G - Bay Park STP Heating Hot Water Piping Temporary System																					
Design Process																					
Final Design - Heating Hot Water Piping Temporary System	90	0	01-May-15 A	17-Jun-15 A	100																
Bid / Construction																					
County Prepare Bid for Advertisement - Heating Hot Water Piping Temporary	7	0	12-Jun-15 A	18-Jun-15 A	100																
Bid / Advertise - Heating Hot Water Piping Temporary System	8	0	19-Jun-15 A	26-Jun-15 A	100																
Bid Opening - Heating Hot Water Piping Temporary System	1	0	30-Jun-15 A	30-Jun-15 A	100																
Award / NTP - Heating Hot Water Piping Temporary System	13	0	01-Jul-15 A	13-Jul-15 A	100																
Construction - Heating Hot Water Piping Temporary System	124	0	13-Jul-15 A	04-Aug-16 A	100																
S35121-06G - Aeration Blower Facility																					
CM Contract																					
RFP / Advertise CM Services - Aeration Blower Facility	29	29	01-Aug-24	29-Aug-24	0																
Award / NTP CM Services - Aeration Blower Facility	180	180	30-Aug-24	25-Feb-25	0																
Design Process																					
Preliminary Design - Aeration Blower Facility	180	0	01-Nov-16 A	15-Dec-16 A	100																
Resolve Power Availability Issue for Aeration Blower Building / PSEG	147	0	01-Jul-18 A	30-Jun-20 A	100																
RFP / Advertise - Final Design - Aeration Blower Facility	29	0	08-Dec-21 A	28-Jan-22 A	100																
Award / NTP Final Design - Aeration Blower Facility	180	0	29-Jan-22 A	13-Nov-23 A	100																
Final Design - Aeration Blower Facility	323	263	14-Nov-23 A	18-Sep-24*	19																
Bid / Construction																					
County Prepare Bid for Advertisement - Aeration Blower Facility	7	7	20-Sep-24	26-Sep-24	0																
Bid / Advertise - Aeration Blower Facility	29	29	27-Sep-24	25-Oct-24	0																
Bid Opening - Aeration Blower Facility	1	1	29-Oct-24	29-Oct-24	0																
Award / NTP - Aeration Blower Facility	180	180	30-Oct-24	27-Apr-25	0																
Construction - Aeration Blower Facility	1095	1095	27-Apr-25	25-Apr-28*	0																
S35123-L38H - Contaminated Soil Hauling & Disposal																					
Design Process																					
Prepare Design Documents - Contaminated Soil Hauling & Disposal	270	0	26-Oct-20 A	07-Jan-21 A	100																
Bid / Construction																					
County Prepare Bid for Advertisement - Contaminated Soil Hauling & Dispose	7	0	08-Jan-21 A	14-Jan-21 A	100																
Bid / Advertise - Contaminated Soil Hauling & Disposal	29	0	15-Jan-21 A	12-Feb-21 A	100																
Bid Opening - Contaminated Soil Hauling & Disposal	1	0	16-Feb-21 A	16-Feb-21 A	100																
Award / NTP - Contaminated Soil Hauling & Disposal	180	0	17-Feb-21 A	07-Mar-22 A	100																
Construction - Contaminated Soil Hauling & Disposal	90	0	07-Mar-22 A	03-Jun-22 A	100																
S3P311 - Pump Stations																					
S3P311-01G - Dock Place & Southland Drive																					
Construction																					
Construction - Dock Place & Southland Drive Pump Stations	240	0	28-Oct-13 A	31-Oct-14 A	100																
S3P311-02G - Cedar, Roosevelt, Whitewood, Bitmore & Alhambra																					
Design Process																					
Finalize Technical Memorandum - Pump Station 2	140	0	12-Aug-13 A	22-Nov-13 A	100																
Preliminary Design - Pump Station 2	67	0	23-Nov-13 A	28-Jan-14 A	100																
RFP / Advertise Final Design - Pump Station 2	30	0	31-Jan-14 A	28-Feb-14 A	100																
Award / NTP Final Design - Pump Station 2	90	0	01-Mar-14 A	23-Sep-14 A	100																
Final Design - Pump Station 2	90	0	23-Sep-14 A	26-Mar-15 A	100																
Bid / Construction																					
County Prepare Bid for Advertisement - Pump Station 2	7	0	27-Mar-15 A	09-Apr-15 A	100																
Bid / Advertise - Pump Station 2	29	0	10-Apr-15 A	08-May-15 A	100																
Bid Opening - Pump Station 2	1	0	12-May-15 A	12-May-15 A	100																
Award / NTP - Pump Station 2	90	0	13-May-15 A	03-Mar-16 A	100																
Construction - Pump Station 2	548	0	03-Mar-16 A	12-Jan-18 A	100																
S3P311-03G - Wantagh, Newbridge, Merrick & Ray																					
Design Process																					
Finalize Technical Memorandum - Pump Station 3	140	0	12-Aug-13 A	22-Nov-13 A	100																
Preliminary Design - Pump Station 3	67	0	23-Nov-13 A	28-Jan-14 A	100																
RFP / Advertise Final Design - Pump Station 3	30	0	31-Jan-14 A	28-Feb-14 A	100																
Award / NTP Final Design - Pump Station 3	90	0	01-Mar-14 A	23-Sep-14 A	100																
Final Design - Pump Station 3	90	0	23-Sep-14 A	13-Apr-15 A	100																

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



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Bid / Construction																					
County Prepare Bid for Advertisement - Pump Station 3	7	0	14-Apr-15 A	30-Apr-15 A	100																
Bid / Advertise - Pump Station 3	29	0	01-May-15 A	29-May-15 A	100																
Bid Opening - Pump Station 3	1	0	02-Jun-15 A	02-Jun-15 A	100																
Award / NTP - Pump Station 3	90	0	03-Jun-15 A	03-Mar-16 A	100																
Construction - Pump Station 3	540	0	03-Mar-16 A	12-Feb-18 A	100																
S3P311-02M - PS2 & PS3 Construction Management																					
CM Contract																					
RFP / Advertise CM Services - PS2 & PS3	29	0	03-Oct-14 A	31-Oct-14 A	100																
Award / NTP CM Services - PS2 & PS3	90	0	01-Nov-14 A	03-Mar-16 A	100																
S3P311-04G - Felix, Fox, Northern & Grand																					
Design Process																					
Finalize Technical Memorandum - Pump Station 4	140	0	12-Aug-13 A	22-Nov-13 A	100																
Preliminary Design - Pump Station 4	67	0	23-Dec-13 A	27-Feb-14 A	100																
RFP / Advertise Final Design - Pump Station 4	30	0	28-Feb-14 A	28-Mar-14 A	100																
Award / NTP Final Design - Pump Station 4	90	0	30-Mar-14 A	17-Sep-14 A	100																
Final Design - Pump Station 4	90	0	17-Sep-14 A	13-Mar-15 A	100																
Bid / Construction																					
County Prepare Bid for Advertisement - Pump Station 4	7	0	13-Mar-15 A	19-Mar-15 A	100																
Bid / Advertise - Pump Station 4	29	0	20-Mar-15 A	17-Apr-15 A	100																
Bid Opening - Pump Station 4	1	0	21-Apr-15 A	21-Apr-15 A	100																
Award / NTP - Pump Station 4	90	0	22-Apr-15 A	15-Nov-15 A	100																
Construction - Pump Station 4	420	0	16-Nov-15 A	29-Aug-17 A	100																
S3P311-05G - Millar, Mott, Long Beach, Royal & Lib																					
Design Process																					
Finalize Technical Memorandum - Pump Station 5	140	0	12-Aug-13 A	22-Nov-13 A	100																
Preliminary Design - Pump Station 5	67	0	23-Jan-14 A	27-Mar-14 A	100																
RFP / Advertise Final Design - Pump Station 5	30	0	28-Mar-14 A	25-Apr-14 A	100																
Award / NTP Final Design - Pump Station 5	94	0	26-Apr-14 A	01-Dec-14 A	100																
Final Design - Pump Station 5	90	0	01-Dec-14 A	01-May-15 A	100																
Bid / Construction																					
County Prepare Bid for Advertisement - Pump Station 5	7	0	02-May-15 A	21-May-15 A	100																
Bid / Advertise - Pump Station 5	29	0	22-May-15 A	19-Jun-15 A	100																
Bid Opening - Pump Station 5	1	0	23-Jun-15 A	23-Jun-15 A	100																
Award / NTP - Pump Station 5	90	0	24-Jun-15 A	15-Nov-15 A	100																
Construction - Pump Station 5	540	0	16-Nov-15 A	29-Aug-17 A	100																
S3P311-04M - PS4 & PS5 Construction Management																					
CM Contract																					
RFP / Advertise CM Services - PS4 & PS5	29	0	07-Nov-14 A	05-Jan-15 A	100																
Award / NTP CM Services - PS4 & PS5	90	0	06-Jan-15 A	16-Nov-15 A	100																
S3P311-06G - Ocean, Mill, Woodmere & Longacre																					
Design Process																					
Finalize Technical Memorandum - Pump Station 6	140	0	12-Aug-13 A	22-Nov-13 A	100																
Preliminary Design - Pump Station 6	67	0	23-Feb-14 A	25-Apr-14 A	100																
RFP / Advertise Final Design - Pump Station 6	29	0	09-May-14 A	30-May-14 A	100																
Award / NTP Final Design - Pump Station 6	90	0	31-May-14 A	15-Apr-15 A	100																
Final Design - Pump Station 6	90	0	15-Apr-15 A	17-Sep-15 A	100																
Bid / Construction																					
County Prepare Bid for Advertisement - Pump Station 6	7	0	18-Sep-15 A	24-Sep-15 A	100																
Bid / Advertise - Pump Station 6	29	0	25-Sep-15 A	23-Oct-15 A	100																
Bid Opening - Pump Station 6	1	0	27-Oct-15 A	27-Oct-15 A	100																
Award / NTP - Pump Station 6	90	0	28-Oct-15 A	15-Mar-17 A	100																
Construction - Pump Station 6	550	0	15-Mar-17 A	17-Aug-18 A	100																
S3P311-07G - Inwood, Doughty, Bayview & Roslyn																					
Design Process																					
Finalize Technical Memorandum - Pump Station 7	140	0	12-Aug-13 A	22-Nov-13 A	100																
Preliminary Design - Pump Station 7	67	0	23-Mar-14 A	28-May-14 A	100																
RFP / Advertise Final Design - Pump Station 7	29	0	30-May-14 A	27-Jun-14 A	100																
Award / NTP Final Design - Pump Station 7	90	0	28-Jun-14 A	13-May-15 A	100																
Final Design - Pump Station 7	90	0	13-May-15 A	16-Nov-15 A	100																

■ Remaining Level of Effort
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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	2027	2028	
Bid / Construction																						
County Prepare Bid for Advertisement - Pump Station 7	7	0	16-Nov-15 A	19-Nov-15 A	100																	
Bid / Advertise - Pump Station 7	29	0	20-Nov-15 A	18-Dec-15 A	100																	
Bid Opening - Pump Station 7	1	0	22-Dec-15 A	22-Dec-15 A	100																	
Award / NTP - Pump Station 7	90	0	23-Dec-15 A	15-Mar-17 A	100																	
Construction - Pump Station 7	540	0	15-Mar-17 A	13-May-19 A	100																	
S3P311-06M - PS6 & PS7 Construction Management																						
CM Contract																						
RFP / Advertise CM Services - PS6, PS7 & PS8	29	0	22-May-15 A	19-Jun-15 A	100																	
Award / NTP CM Services - PS6, PS7 & PS8	90	0	20-Jun-15 A	15-Mar-17 A	100																	
S3P311-08G - East Avenue																						
CM Contract																						
RFP / Advertise CM Services - East Avenue Pump Station	29	0	08-Mar-19 A	05-Apr-19 A	100																	
Award / NTP CM Services - East Avenue Pump Station	180	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	0	02-Nov-20 A	17-Oct-22 A	100																	
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																	

■ 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	2027	2028			
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																			
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	0	01-Dec-20 A	18-Jul-22 A	100																			
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	1	31-Dec-19 A	31-Dec-23*	100																			
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																								

█ 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	2027	2028			
Design - Level 1 BNR Improvements	120	0	30-Nov-15 A	23-Sep-16 A	100	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q			
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																			
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 - Cancelled	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	0	31-Jan-22 A	23-Jun-22 A	100																			
Bid / Advertise - Long Beach Pump Station	57	0	24-Jun-22 A	16-Sep-22 A	100																			
Bid Opening - Long Beach Pump Station	1	0	20-Sep-22 A	20-Sep-22 A	100																			
Award / NTP - Long Beach Pump Station	182	0	21-Sep-22 A	20-Oct-23 A	100																			
Construction - Long Beach Pump Station	844	772	20-Oct-23 A	09-Feb-26*	9																			
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	2	0	31-Jan-22 A	23-Jun-22 A	100																			
Bid / Advertise - Long Beach HDD Force Main	57	0	24-Jun-22 A	16-Sep-22 A	100																			
Bid Opening - Long Beach HDD Force Main	1	0	20-Sep-22 A	20-Sep-22 A	100																			
Award / NTP - Long Beach HDD Force Main	182	0	21-Sep-22 A	14-Oct-23 A	100																			
Construction - Long Beach HDD Force Main	828	756	20-Oct-23 A	24-Jan-26*	9																			
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	0	31-Oct-21 A	23-Jun-22 A	100																			
RFP / Advertise CM Services - Long Beach Consolidation	29	0	24-Jun-22 A	05-Aug-22 A	100																			
Award / NTP CM Services - Long Beach Consolidation	180	0	06-Aug-22 A	24-Jul-23 A	100																			
S35109-03G - Hempstead Bay Hassocks Restoration																								
CM Contract																								
RFP / Advertise CM Services - Hempstead Bay Hassocks Restoration	31	31	15-Mar-24	14-Apr-24	0																			
Award / NTP CM Services - Hempstead Bay Hassocks Restoration	170	170	15-Apr-24	01-Oct-24	0																			
Design Process																								
Design - Hempstead Bay Hassocks Restoration	120	0	28-Oct-21 A	21-Jul-22 A	100																			
Bid / Construction																								
Prepare Bid for Advertisement - Hempstead Bay Hassocks Restoration	7	7	15-Mar-24*	21-Mar-24	0																			
Bid / Advertise - Hempstead Bay Hassocks Restoration	29	29	22-Mar-24	19-Apr-24	0																			
Bid Opening - Hempstead Bay Hassocks Restoration	1	1	23-Apr-24	23-Apr-24	0																			
Award / NTP - Hempstead Bay Hassocks Restoration	257	257	24-Apr-24	05-Jan-25	0																			
Construction - Hempstead Bay Hassocks Restoration	270	270	06-Jan-25	02-Oct-25*	0																			
S35109-05G - Collection System Pump Station Mitigation																								
CM Contract																								
RFP / Advertise CM Services - Collection System Pump Station Mitigation	29	29	06-Aug-24	03-Sep-24	0																			
Award / NTP CM Services - Collection System Pump Station Mitigation	180	180	04-Sep-24	02-Mar-25	0																			
Design Process																								
Preliminary Design - Collection System Pump Station Mitigation	180	0	03-Jan-23 A	15-Jun-23 A	100																			
RFP / Advertise Final Design - Collection System Pump Station Mitigation	29	0	16-Jun-23 A	21-Jul-23 A	100																			
Award / NTP Final Design - Collection System Pump Station Mitigation	180	66	21-Jul-23 A	05-Mar-24	63																			
Final Design - Collection System Pump Station Mitigation	153	153	06-Mar-24	05-Aug-24	0																			
Bid / Construction																								

■ 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	2027	2028		
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
County Prepare Bid for Advertisement - Collection System Pump Station Mitig	7	7	07-Aug-24	13-Aug-24	0																		
Bid / Advertise - Collection System Pump Station Mitigation	29	29	16-Aug-24	13-Sep-24	0																		
Bid Opening - Collection System Pump Station Mitigation	1	1	17-Sep-24	17-Sep-24	0																		
Award / NTP - Collection System Pump Station Mitigation	180	180	18-Sep-24	16-Mar-25	0																		
Construction - Collection System Pump Station Mitigation	548	548	17-Mar-25	15-Sep-26*	0																		
S35109-06G - Long Beach WPCP Decommissioning																							
CM Contract																							
RFP / Advertise CM Services - WPCP Decommissioning	29	29	06-Mar-25	03-Apr-25	0																		
Award / NTP CM Services - WPCP Decommissioning	180	180	04-Apr-25	30-Sep-25	0																		
Design Process																							
Prepare Design RFP - WPCP Decommissioning	90	0	03-Apr-23 A	11-May-23 A	100																		
RFP / Advertise Final Design - WPCP Decommissioning	29	0	12-May-23 A	30-Jun-23 A	100																		
Award / NTP Final Design - WPCP Decommissioning	180	67	01-Jul-23 A	06-Mar-24	63																		
Final Design - WPCP Decommissioning	365	365	06-Mar-24	05-Mar-25	0																		
Bid / Construction																							
County Prepare Bid for Advertisement - WPCP Decommissioning	7	7	07-Mar-25	13-Mar-25	0																		
Bid / Advertise - WPCP Decommissioning	29	29	14-Mar-25	11-Apr-25	0																		
Bid Opening - WPCP Decommissioning	1	1	15-Apr-25	15-Apr-25	0																		
Award / NTP - WPCP Decommissioning	180	180	16-Apr-25	12-Oct-25	0																		
Construction - WPCP Decommissioning	450	450	13-Oct-25	05-Jan-27*	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 Fore Main Design	14	0	27-Feb-16 A	01-Jun-16 A	100																		
Design - Austin Boulevard Force Main	310	0	01-Jun-16 A	07-Sep-18 A	100																		
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		25-Apr-28	0																		

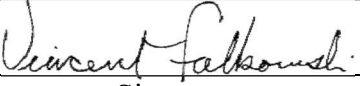
█ Remaining Level of Effort █ Actual Work
█ Actual Level of Effort █ Remaining Work

XIII.0

Project Glossary

Agreement Project Name	County Project Name	County Project Number
Barnes Avenue – Baldwin	Village of Hempstead Wastewater Pump Station	S3P311-09G
	Village of Hempstead Force Main	S3P311-09S
Raw sewage pumping facility	Raw Sewage Pumping Facility Improvements	S35121-03G
Sludge dewatering facilities	Sludge Dewatering Facilities Improvements	S35121-09G
Effluent Screening and disinfection	Effluent Screening and Disinfection Facility Improvements	S35121-11G
Effluent tide pumping facilities	Effluent Pumping Facility Improvements	S35121-12G
Electrical Distribution Phase E1-E3	Phase E3 Main Substation and Electrical Distribution	S35121-14F
Secondary Flood Protection	Secondary Flood Protection and Hardening of Critical Facilities	S35121-16G
Stormwater Pump Stations	Flood Protection Phase I – Stormwater Pumping Stations	S35121-18G
Upgrade to 3 Generator Operation	Engine Generator Facility Auxiliary Improvements	S35121-16A
Hot water piping system	Permanent HW/CW Piping System	S35121-16P
Cedar Dr, Roosevelt et al PS	Cedar Drive, Roosevelt, Whitewood, Biltmore and Alhambra Pump Station Repairs	S3P311-02G
Wantagh, Newbridge et al PS	Wantagh, Newbridge Road, Merrick Road and Ray Street Pump Station Repairs	S3P311-03G
Ocean Ave, Mill Rd et al PS	Ocean Avenue, Mill Road, Woodmere Boulevard and Longacre Pump Station Repairs	S3P311-06G
Inwood, Doughty et al PS	Inwood, Bayview Avenue and Doughty Boulevard Pump Station Repairs	S3P311-07G
Lawrence & Sage Lake PS	Sage Lake and Lawrence Pump Stations Mitigation and Repair	S3P311-10G
East Avenue Ejector Station	East Avenue Pump Station Repairs	S3P311-08G
Level 1 BNR	Level 1 BNR Improvements	S35123-L39G
Sidestream Deammonification	Sidestream Centrate Treatment	S35123-L38G

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Vincent Falkowski, PE, PMP, CCM		Deputy Commissioner
Permittee (Per CRF 122.22)		Title
		1/26/2024
Signature		Date Signed