

April 28, 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 Q1 Quarterly Report

Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of January 1, 2023, through March 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>Katie French</i> <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 Q1 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 January 1, 2023, through March 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 January 1, 2023, through March 31, 2023 (“Reporting Quarter”).

II.0

Modification Request and Force Majeure Status

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

A second Agreement Modification is currently in preparation that will revise the Conveyance Project milestones noted in Table 1 as well as revise the Wet Weather/Flow Reduction milestones that were added to the Agreement via Appendix F previously.

The second Modification will also add a new project to Appendix A, the Hempstead Bay-Hassocks Restoration Project.

The modifications were agreed to and sent to the County for execution on December 27th, 2022. The modification will be fully executed in Q1 2023.

Table 1 – Modification Requests and Force Majeure Notifications

Milestone	Agreement Date	Mod request date	Revised date requested	DEC Response Date	Modified Milestone Date¹
General Covid-19 FM	N/A	3/19/2020 ²	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		

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 Bold denotes current date, italic superseded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

III.0**Design Milestone Status**

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

Table 2 – Design Completion Milestones

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

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

Project Notes:

All agreement design milestones have been completed and certifications accepted.

IV.0

Construction Milestone Status

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

Table 3 – Construction NTP Milestones

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

Table 4 – Construction Completion Milestones

Milestone	Agreement Date	Actual/Forecast	% Complete
1 Barnes Avenue – Baldwin	12/31/2019	10/4/2019 A	100%
2 Raw Sewage Pumping Facility	2/15/2024	6/26/2024	56%
3 Sludge Dewatering Facilities	12/15/2018	5/21/2018 A	100%
4 Effluent Screening and Disinfection	8/22/2023	9/4/2023	83%
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 electrical conduit and wiring for power, controls, and lighting.
- Continued removal of abandoned conduit in existing MCC and Pump Room.
- Continued wiring of equipment in the new electrical room.
- Continued mimic panel wiring terminations.
- Continued rough-in work related to main power feeders (CO#01).
- Completed MOPO to install new valves into existing compressed air system.
- Continued layout and prep work for pump room plumbing.
- Continued miscellaneous metals corrective work list for catwalk and stair tower.
- Started repair and testing of the pump room overhead bridge crane.
- Continued submission of RFI's, MOPOs, submittals, and shop drawings subcontractors/vendors for approval.

Expected Progress Next Quarter:

- Finish relocation of fire standpipe in existing staircase (P-019).
- Finish cover on fiber optic relocation (P-020).
- Finish repairs and testing on the pump room overhead bridge crane.
- Continue miscellaneous metal incomplete items list for stair tower and catwalk.
- Continue installation of 30" valve extensions in pump room for RSP-1 through 4.
- Continue electrical conduit work for the main power feeders (CO#01).
- Start installation of interim transformer (P-029).
- Start to painting floors in new electrical room.
- Start the lock out and demolition of RSP-5.
- Continue coordination of MOPO's with Veolia.
- Continue submission of RFI's, Submittals, MOPOs, Shop Drawings and Subcontractor/Vendor approvals.
- Continue submission of RFI's, Submittals, Shop Drawings and Subcontractor/Vendor approvals.

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.

3. Sludge Dewatering Facilities

This project has been completed and milestone certification accepted.

4. Effluent Screening and Disinfection

Progress This Quarter:

- Installed Isolation Butterfly Valve No. 1 and Valve Actuator.
- Installed H&V Three-Way Mixing Valve.
- Continued fabrication of remaining Isolation Butterfly Valves.
- Continued preparation and submission of administrative and technical submittals.

Expected Progress Next Quarter

- Install pressure gauges and temperature measuring instrumentation for the HVAC system.
- Startup and test H&V Unit.
- Program existing Chemical System Control Panel.
- Receive delivery and start installation of Isolation Butterfly Valve No. 2.
- Electrically connect and test flowmeter.
- Continue preparation and submission of administrative and technical submittals.

Note: Current schedule for Effluent Screening is behind schedule due to equipment delivery delays. DEC was notified at the last quarterly meeting. All screens are installed and operating but the delays are exclusively related to the isolation valves. Substantial completion is currently projected 13 days beyond the Consent Agreement date and efforts are being made to make up schedule.

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

Progress This Quarter:

- Continued working on as-built drawings.
- Removed Engineer's trailer.
- Addressed peeling paint.
- Substantial completion granted 10/17/2022 and milestone certification was submitted to DEC in Q4 2023, which was then accepted 2/6/2023.

Expected Progress Next Quarter:

- Complete as-built drawings.
- Complete demobilization from the site.

16. Level 1 BNR

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

17. Sidestream Deammonification

Progress This Quarter:

- Construction Complete Milestone Certification accepted on November 22, 2022.
- Continued operation and ramp-up of the Sidestream system.
- Continued submission of O&Ms, As-builts, Closeout submittals, and technical submittals.
- Completed 10-day water test for second Sidestream train.
- Started installation of Decanter sample lines per operator-initiated request.

Expected Progress Next Quarter:

- Continue submission of O&Ms, As-builts, Closeout submittals, and technical submittals.
- Continue monitoring, ramp-up, and maintaining operation of the Sidestream Centrate treatment process.
- Complete installation of Decanter sample lines (P-65).
- Continue general punch list items.

V.0

Inter Municipal Agreement

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

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

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 is currently being finalized 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	5/1/2023
End 12-month performance period for updated BNR and Sidestream O&M plan.	4/31/2024	4/31/2024
Submit performance data and approvable Final BNR and Sidestream O&M Plan.	8/1/2024	8/1/2024

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

The 6-month startup and optimization period for the sidestream system was initiated November 1, 2022, meeting the milestone date.

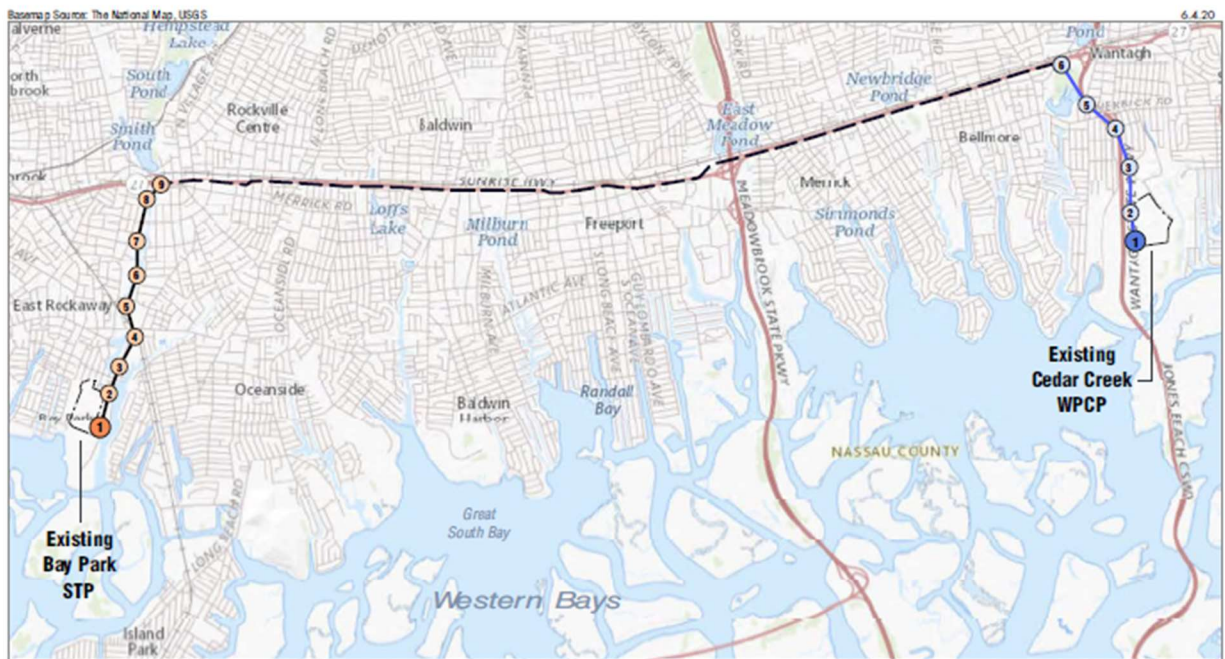
Performance data demonstrates continued compliance with the revised nitrogen limit that went into effect July 1, 2022.

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	<i>10/31/2021</i>		
Notice to Proceed to Construction	2/26/2021	4/4/2021	3/9/2021	3/9/2021
Construction Start Early Works	6/25/2021	<i>6/25/2021</i>		
Commence Diversion of Wastewater from Bay Park to Cedar Creek	10/25/2024	<i>10/25/2024</i>		

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	<i>9/1/2023</i>		
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	<i>12/30/2023</i>		
CCM Construction Start	3.1	12/1/2022	<i>12/1/2022</i>	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	<i>9/1/2023</i>		
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	<i>12/30/2023</i>		
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	<i>12/30/2023</i>		
SHA Rehabilitation Construction Start	5.1	10/1/2021	<i>10/1/2021</i>	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	<i>12/30/2022</i>	10/11/2022	10/12/2022
SHA Rehabilitation Construction End	5.4	12/30/2023	<i>12/30/2023</i>		
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	<i>12/1/2021</i>	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	<i>12/30/2023</i>		
Mechanical Completion	7	12/30/2024	<i>12/30/2024</i>		
Substantial Completion	8	7/30/2024	<i>7/30/2024</i>		
Final Acceptance	9	11/30/2024	<i>11/30/2024</i>		

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

Bold notes modified milestones per December 5, 2022 DEC Letter.

Progress This Quarter:

During 2023 Quarter No. 1, there was continued progress to advance the overall project objectives, which included review and approval of subsequent Design Changes (FDCs/NDCs) and design technical memorandums. DP-11A - Rehabilitation of the Cedar Creek Outfall Clean-out Chamber and Cap (Clean out chamber hatch) RFCD package is still under EOR development.

Construction activities are listed by location below.

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 shaft excavation, 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 reach/location during the period.

Bay Park Effluent Diversion Pump Station:

- Received and performed detailed quality and compliance reviews for following technical design submittal: DPP-007 - BP Limited Hazmat Report - Supplemental Phase 1 Asbestos Abatement Clearance Letter and Design Change NDC-0025 as a result of UCD No. 7 - Additional Pump Equipment.
- Reviewed and processed numerous works plans and construction submittals, including but not limited to, valves, wet well, BPEDPS low roof rebar shop drawings, and electrical product data submittals. Owner's Agent requested SWPPP amendments for this area due to field changes post RFCD.
- Pile caps were placed; first and second floor support columns, beams, and floor slabs were formed and placed. The electrical conduits for the first floor were placed in the rebar grid with stub-ups prior to the first-floor concrete pour. For UCD No. 6 - Bay Park Effluent Conduit Bypass, the bulkhead was delivered, and the site was prepared. The bulkhead was installed to block off the wet well and sluice gate.

Bay Park Microtunnel:

- Received and performed detailed quality and compliance reviews for technical design submittal: DPP-0020 - 6146 - Bay Park Drives 3-4 Limited Geotech Investigation.
- Reviewed and processed numerous work plans and construction submittals, including the revised micro-tunnel response level plan. Owner's Agent (OA) requested SWPPP amendments for this area due to field changes post RFCD.
- Installed manhole, followed by the steel riser piping in BP1. BP2 site curb and sidewalk work began, backfilling of BP2 shaft with CLSM to the cap beam. BP3 to BP4 tunnel run was completed.

Sunrise Highway Sliplining:

- All Design Packages in this area have been approved. FDC-0027.00 MPT Work Pit I was approved this period.
- Reviewed and processed numerous work plans and construction submittals, including but not limited to, process valves, response level plan, and CARV manhole rebar shop drawings. OA requested SWPPP amendments for this area due to field changes post RFCD.

- Bulkhead east side of Pit A was installed for the annular grouting from Pits A to D. SOE below grade was cut and backfill with CLSM and temporary pavement restoration with hot asphalt of Pits B and C were completed. Vent pipe to sidewalk installed at Pit B. No slip-line work was completed from Pits D to FF. At Pits G, GG, and H, installed vibrations and geotechnical instrumentation and collected baseline readings. Mobilized/setup MPT, excavated and installed SOE, removed 48” gate valve and reducer at Pit G. Cleaned and prepared aqueduct pipe from Pit G to Pit GG. From Pits GG to L, FRP slip-line pipe was pushed and grouted. At Pit GG, mobilized/set-up pit, installed SOE/excavated, installed pipe supports, and installed permanent bulkhead west of pit. Completed grout annulus from Pit H to Pit GG.
- Cleaned and prepared aqueduct pipe towards Pit I and Pit GG thru Pit G, installed jacking equipment thru Pit GG towards Pit G, jacked pipe towards Pit I, conducted pipe joint tests between Pit H and Pit I, annular grouting from Pit I to Pit N was completed, and installation of closure pipes from Pit H to Pit I and coupling were completed. Pipe was jacked from Pit G towards Pit GG and conducted pipe joint tests to Pit GG. SOE below grade was cut and backfill with CLSM and temporary pavement restoration with hot asphalt of Pit H was completed. Cleaned and prepared aqueduct pipe towards Pit H, jacked pipe towards Pit H, conducted pipe joint tests to Pit H, installed permanent bulkhead west of Pit I, installed closure pipe at Pit I, and coupling with access manhole and MARV completed at Pit I. Backfill with CLSM/cut SOE/temporary restoration of Pits I and K are ongoing.
- SOE below grade was cut and backfill with CLSM and temporary pavement restoration with hot asphalt of Pit L, N, Q, R, T, U, and V were completed. Installation of closure pipe, coupling with access manhole, & MARV were completed at Pit K. Cleaned and prepared aqueduct pipe towards Pit L, jacked pipe towards Pits L, M, and N, conducted pipe joint tests between Pit M to Pit N and between Pit M to Pit L. Installed permanent bulkhead east of Pit M and installation of closure pipe Pit M and coupling completed. Bulkheaded the new FRP slip-line pipe on the east side of Pit O. Bulkheaded and capped steel pipe in Pit W. Poured thrust block where steel pipe turns to the south in Pit W. This work was done in preparation of the hydrostatic test from Pit O to Pit W.

Cedar Creek Microtunnel:

- All Design Packages in this area have been approved.
- Reviewed and processed numerous work plans and construction submittals, including but not limited to, IJS layouts, wet tap installation, and revised micro-tunnel response level plan. OA requested SWPPP amendments for this area due to field changes post RFCD.
- Installed FRP pipe in CC2, connecting CC1 to CC3. Completed tunneling between CC2 to CC3. Shaft CC6 completed. Tunneling between CC5 and CC6 completed. Shaft buildout for CC6 completed.

Cedar Creek Effluent Pump Station/Receiving Station:

- All Design Packages in this area have been approved.
- Reviewed and processed numerous work plans and construction submittals, including but not limited to, electrical product data, standpipe tank, rebar drawings for CC6 to Pit W trench-vault and work pits, and valves. OA requested SWPPP amendments for this area due to field changes post RFCD.

- Cedar Creek electrical room demolition of pre-existing concrete pads that are no longer needed (UCD No. 5 – Cedar Creek Electrical Room Demolition). Started pump station pipe lead abatement work and completed asbestos abatement at Cedar Creek Pump Station (Phase 1 of UCD No. 8 - Cedar Creek Hazmat Abatement). Pump station electrical conduits were installed. Wet tap tie-in SOE completed.

Expected Progress Next Quarter:

Bay Park Effluent Diversion Pump Station:

- All Design Packages in this area have been approved.
- UCD No. 6 work will continue. Start masonry work and continue concrete structure. Continue to install sluice gates and prepare for their field test.

Bay Park Microtunnel:

- All Design Packages in this area have been approved.
- Sidewalks and restoration to be completed at BP2; site to be returned to the Nassau County Parks Department. Start micro-tunneling from BP5 to BP7. Shafts BP8 and BP9 to be excavated.

Sunrise Highway Sliplining:

- All Design Packages in this area have been approved.
- Hydrostatic test to be done from Pits O to W. Complete active work pits, slip lining, and backfill with CLSM. Final restoration to be done at Pits N to V.

Cedar Creek Microtunnel:

- All Design Packages in this area have been approved.
- Continue to set-up micro-tunneling equipment for CC4 to CC5 run and contact grout CC5 to CC6.

Cedar Creek Effluent Pump Station/Receiving Station:

- Anticipate receipt of one (1) RFCD package for DP-11A – CC Outfall Cleanout Chamber Preliminary Study.
- Wet tap to the Cedar Creek Effluent Conduit. Install helical piles for Cedar Creek Receiving Station. Continue installation of pump station electrical conduits. Continue pump station pipe lead abatement. Begin replacement of Pump #3. Conduct dynamic vibratory compaction at the loss of ground on the access road between the CC1 and CC2 micro-tunnel run. Conduct CPT to verify soil density achieved by dynamic vibratory compaction and compare to CPT data of the original subsurface conditions at the beginning of the project.

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
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

The County has submitted the CMOM plans, Operating Plan, and I/I Study Work Plans to DEC for review in this reporting quarter.

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 where it remains under review.

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	
Submit Operation Plan for Conveyance System	3/7/2023	3/7/2023	
Submit I/I Study Work Plans	3/30/2023	3/30/2023	

XI.0

Community Relations

From January through March 2023, the State, County, and Design Builder continued in their efforts to disseminate and field community concerns via various community engagement initiatives for the Bay Park Conveyance Project.

On March 15 from 6 – 7:30pm, the State, County, and Design-Builder held an eighth quarterly general public information session (since the Project’s Notice-to-Proceed) via Zoom to update communities on the Project’s construction progress, reinforce its mission, and to answer any questions from participants. Discussion topics that affect the public included noise and vibration monitoring as well as construction schedules.

Meetings with local elected officials and first responders took place on February 28 and March 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.

Stakeholder meetings which included chambers of commerce, local civic associations, and homeowners’ associations also took place during Q1: on January 25, February 22, and March 29. During these meetings, local stakeholders were invited to listen in on the Project’s updates and raise any concerns directly to the Project team. WBC answered questions regarding the timeline of construction at Sunrise Highway Pits.

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 Q1 Outreach Summary:

Item/ Description	Dates
Quarterly Public Information Session	<ul style="list-style-type: none"> • March 15
Monthly Meeting with First Responders and Elected Officials	<ul style="list-style-type: none"> • February 28 • March 28
Monthly Meeting with Stakeholders, i.e. Chambers of Commerce, Civics, and Homeowners’ Associations	<ul style="list-style-type: none"> • January 25 • February 22 • March 29

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	23
Bay Park Master Schedule 230331																					
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 Huse Generators	0	0		18-Nov-14 A	100																
Construction - Generator Controls	533	0	15-Nov-13 A	24-Jun-16 A	100																
S3B120-01G - Influent Screening Facility Improvements																					
CM Contract																					
RFP / Advertise CM Services - Influent Screening	30	0	20-Apr-13 A	24-May-13 A	100																
Award / NTP CM Services - Influent Screening	40	0	25-May-13 A	06-Jan-14 A	100																
Construction Contract																					
Bid / Advertise - Influent Screening	40	0	14-Oct-13 A	26-Nov-13 A	100																
Award / NTP - Influent Screening	90	0	27-Nov-13 A	27-May-14 A	100																
Construction - Influent Screening	913	0	27-May-14 A	09-Jun-17 A	100																
S3B120-02G - Grit Removal Facility Improvements																					
CM Contract																					
RFP / Advertise CM Services - Grit Removal	30	0	07-Oct-13 A	25-Oct-13 A	100																
Award / NTP CM Services - Grit Removal	40	0	26-Oct-13 A	26-May-14 A	100																
Construction Contract																					
75% to 100% Design / Bid Documents - Grit Removal	236	0	06-May-13 A	12-Feb-14 A	100																
County Prepare Bid for Advertisement - Grit Removal	7	0	13-Feb-14 A	23-Feb-14 A	100																
Bid / Advertise - Grit Removal	56	0	24-Feb-14 A	21-Mar-14 A	100																
Bid Opening - Grit Removal	1	0	25-Mar-14 A	25-Mar-14 A	100																
Award / NTP - Grit Removal	63	0	26-Mar-14 A	20-Apr-15 A	100																
Construction - Grit Removal	821	0	20-Apr-15 A	18-Jul-17 A	100																
S35100-01G - Cleaning & Repair of Digesters & Storage Tanks																					
Construction																					
Construction - Digester Cleaning	720	0	20-May-13 A	16-Apr-15 A	100																
S35114-03G - Sludge Thickening Facility Improvements																					
CM Contract																					
RFP / Advertise CM Services - Sludge Thickening	30	0	21-Aug-13 A	09-Sep-13 A	100																
Award / NTP CM Services - Sludge Thickening	30	0	10-Sep-13 A	25-Mar-14 A	100																
Construction Contract																					
Award / NTP - Sludge Thickening	64	0	21-Aug-13 A	24-Oct-13 A	100																
Construction - Sludge Thickening	730	0	28-Oct-13 A	30-Aug-16 A	100																
S35116-01G - Odor Control at Bay Park & Cedar Creek																					
CM Contract																					
RFP / Advertise CM Services - Odor Control BP & CC WPCPs	20	0	21-Aug-13 A	09-Sep-13 A	100																
Award / NTP CM Services - Odor Control BP & CC WPCPs	30	0	10-Sep-13 A	10-Mar-14 A	100																
Construction Contract																					
Award / NTP - Odor Control BP & CC WPCPs	64	0	21-Aug-13 A	23-Oct-13 A	100																
Construction - Odor Control BP & CC WPCPs	730	0	28-Oct-13 A	07-Nov-15 A	100																
Hurricane Sandy Projects																					
FEMA Approval Process																					
FEMA 404 Grants	60	0	12-Aug-13 A	31-Oct-13 A	100																
FEMA Finalize Damage Scope and Cost	45	0	12-Aug-13 A	19-Dec-13 A	100																
Submit 406 HMP	45	0	12-Aug-13 A	19-Dec-13 A	100																
FEMA 406 HMP Negotiation	90	0	06-Jan-14 A	15-Jan-14 A	100																
FEMA Scope and Cost Negotiation	90	0	20-Dec-13 A	15-Jan-14 A	100																
S35121-01G/E - Final Settling Tank Rehabilitation																					
Construction Contract																					
Award / NTP - Final Tank Rehabilitation	64	0	21-Aug-13 A	23-Oct-13 A	100																
Construction - Final Tank Rehabilitation	730	0	28-Oct-13 A	13-May-16 A	100																

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	28
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
CM Contract																					
RFP / Advertise CM Services - Final Tank Rehabilitation	30	0	21-Aug-13 A	09-Sep-13 A	100																
Award / NTP CM Services - Final Tank Rehabilitation	30	0	10-Sep-13 A	10-Feb-14 A	100																
S35121-03G - Raw Sewage Pumping Facility																					
CM Contract																					
RFP / Advertise CM Services - Raw Sewage Pumping Facility	29	0	01-Feb-19 A	01-Mar-19 A	100																
Award / NTP CM Services - Raw Sewage Pumping Facility	180	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	454	03-May-21 A	26-Jun-24*	49																
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																

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	28			
S35123-L33E - Phase E4 Electrical Utility Connections																								
Design Process																								
Preliminary Design - Phase E4 Electrical Utility Connections	90	0	15-Dec-17 A	04-Jun-18 A	100																			
RFP / Advertise - Final Design - Phase E4 Electrical Utility Connections	29	0	12-Oct-18 A	09-Nov-18 A	100																			
Award / NTP Final Design - Phase E4 Electrical Utility Connections	120	0	09-Nov-18 A	22-Jan-20 A	100																			
Final Design - Phase E4 Electrical Utility Connections	180	0	22-Jan-20 A	16-Sep-20 A	100																			
PSE&G Coordination	5	110	12-Aug-13 A	18-Jul-23	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	110	15-Jun-21 A	18-Jul-23*	80																			
Energize & Commission PSEGLI Power	0	0		18-Jul-23*	0																			
PSEG-LI - Phase E4 Primary Power by PSEG-LI																								
Construction																								
Construction - Phase E4 Primary Power by PSEG-LI	540	50	02-Oct-20 A	19-May-23*	91																			
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	92	23-Oct-21 A	30-Jun-23	49																			
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	92	30-Mar-22 A	30-Jun-23	49																			
Construction - Heating Hot Water Piping Permanent System	730	730	01-Jul-23	29-Jun-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		
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
S35121-16TR - Vehicle Fueling & Tanks Reconstruction																							
Design Process																							
Design - Vehicle Fueling	53	0	10-Mar-14 A	02-May-14 A	100																		
Bid / Construction																							
County Prepare Bid for Advertisement - Vehicle Fueling	7	0	02-May-14 A	08-May-14 A	100																		
Bid / Advertise - Vehicle Fueling	29	0	09-May-14 A	06-Jun-14 A	100																		
Bid Opening - Vehicle Fueling	1	0	10-Jun-14 A	10-Jun-14 A	100																		
Re-Bid / Advertise - Vehicle Fueling	29	0	27-Mar-15 A	24-Apr-15 A	100																		
Bid Opening - Vehicle Fueling	1	0	28-Apr-15 A	28-Apr-15 A	100																		
Award / NTP - Vehicle Fueling	90	0	29-Apr-15 A	12-Jun-16 A	100																		
Construction - Vehicle Fueling	274	0	13-Jun-16 A	30-Jan-18 A	100																		
S35121-16V - Dechlorination Vault Storm Mitigation																							
Design Process																							
Design - Dechlor Sample Vault Hardening	180	0	27-Mar-15 A	22-Oct-15 A	100																		
Bid / Construction																							
County Prepare Bid for Advertisement - Dechlor Sample Vault Hardening	7	0	23-Oct-15 A	29-Oct-15 A	100																		
Bid / Advertise - Dechlor Sample Vault Hardening	36	0	30-Oct-15 A	04-Dec-15 A	100																		
Bid Opening - Dechlor Sample Vault Hardening	1	0	08-Dec-15 A	08-Dec-15 A	100																		
Award / NTP - Dechlor Sample Vault Hardening	90	0	12-Dec-15 A	11-May-16 A	100																		
Construction - Dechlor Sample Vault Hardening	270	0	11-May-16 A	11-Aug-17 A	100																		
S35121-17G - Perimeter Flood Protection																							
CM Contract																							
RFP / Advertise CM Services - Perimeter Flood Protection	30	0	10-Jan-14 A	07-Feb-14 A	100																		
Award / NTP CM Services - Perimeter Flood Protection	90	0	08-Feb-14 A	30-Jun-14 A	100																		
Design Process																							
Geotech Borings - Perimeter Flood Protection	85	0	12-Aug-13 A	17-Dec-13 A	100																		
Permitting (EAS) - Perimeter Flood Protection	125	0	12-Aug-13 A	17-Dec-13 A	100																		
Berm Design - Perimeter Flood Protection	83	0	26-Sep-13 A	17-Dec-13 A	100																		
Finalize Technical Memorandum - Perimeter Flood Protection	45	0	12-Aug-13 A	17-Dec-13 A	100																		
Public Review/Comment Period	30	0	17-Dec-13 A	16-Jan-14 A	100																		
Bid / Construction																							
County Prepare Bid for Advertisement - Perimeter Flood Protection	7	0	17-Jan-14 A	23-Jan-14 A	100																		
Bid / Advertise - Perimeter Flood Protection	29	0	24-Jan-14 A	14-Mar-14 A	100																		
Bid Opening - Perimeter Flood Protection	1	0	18-Mar-14 A	18-Mar-14 A	100																		
Award / NTP - Perimeter Flood Protection	76	0	19-Mar-14 A	27-May-14 A	100																		
Eastern Park Open	0	0		07-Oct-15 A	100																		
Construction - Perimeter Flood Protection	740	0	27-May-14 A	09-Jun-17 A	100																		
S35121-18G - Flood Protection Phase 1 Stormwater Pumping Stations																							
CM Contract																							
RFP / Advertise CM Services - Flood Protection Phase 1 Stormwater PS	29	0	31-Jul-15 A	28-Aug-15 A	100																		
Award / NTP CM Services - Flood Protection Phase 1 Stormwater PS	90	0	29-Aug-15 A	17-Jun-16 A	100																		
Design Process																							
Preliminary Design Flood Protection Phase 1 Stormwater PS	97	0	18-Dec-13 A	17-Apr-14 A	100																		
RFP / Advertise Final Design Flood Protection Phase 1 Stormwater PS	29	0	18-Apr-14 A	16-May-14 A	100																		
Award / NTP Final Design Flood Protection Phase 1 Stormwater PS	90	0	17-May-14 A	10-Nov-14 A	100																		
Final Design Flood Protection Phase 1 Stormwater PS	210	0	10-Nov-14 A	28-Aug-15 A	100																		
Bid / Construction																							
County Prepare Bid for Advertisement - Flood Protection Phase 1 Stormwater PS	7	0	28-Aug-15 A	03-Sep-15 A	100																		
Bid / Advertise - Flood Protection Phase 1 Stormwater PS	29	0	04-Sep-15 A	02-Oct-15 A	100																		
Bid Opening - Flood Protection Phase 1 Stormwater PS	1	0	06-Oct-15 A	06-Oct-15 A	100																		
Award / NTP - Flood Protection Phase 1 Stormwater PS	90	0	30-Sep-15 A	31-May-16 A	100																		
Construction - Flood Protection Phase 1 Stormwater PS	760	0	31-May-16 A	24-Jun-19 A	100																		
S35121-18S - Flood Protection Phase 2 Stormwater Green Infrastructure																							
Design Process																							
Preliminary Design - Flood Protection Phase 2 Stormwater GI	96	0	31-Jan-16 A	26-May-16 A	100																		
RFP / Advertise - Final Design Flood Protection Phase 2 Stormwater GI	29	0	27-May-16 A	24-Jun-16 A	100																		
S35123-L37 - Miscellaneous Storm Repairs, Mitigation & Site Restoration																							
CM Contract																							
RFP / Advertise CM Services - Misc Storm Repairs, Mitigation & Restoration	31	31	05-Nov-24	05-Dec-24	0																		

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



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

█ Remaining Level of Effort
 █ Actual Work
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 █ Remaining Work



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	28		
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Bid / Construction																							
County Prepare Bid for Advertisement - Pump Station 6	7	0	18-Sep-15 A	24-Sep-15 A	100																		
Bid / Advertise - Pump Station 6	29	0	25-Sep-15 A	23-Oct-15 A	100																		
Bid Opening - Pump Station 6	1	0	27-Oct-15 A	27-Oct-15 A	100																		
Award / NTP - Pump Station 6	90	0	28-Oct-15 A	15-Mar-17 A	100																		
Construction - Pump Station 6	550	0	15-Mar-17 A	17-Aug-18 A	100																		
S3P311-07G - Inwood, Doughty, Bayview & Roslyn																							
Design Process																							
Finalize Technical Memorandum - Pump Station 7	140	0	12-Aug-13 A	22-Nov-13 A	100																		
Preliminary Design - Pump Station 7	67	0	23-Mar-14 A	28-May-14 A	100																		
RFP / Advertise Final Design - Pump Station 7	29	0	30-May-14 A	27-Jun-14 A	100																		
Award / NTP Final Design - Pump Station 7	90	0	28-Jun-14 A	13-May-15 A	100																		
Final Design - Pump Station 7	90	0	13-May-15 A	16-Nov-15 A	100																		
Bid / Construction																							
County Prepare Bid for Advertisement - Pump Station 7	7	0	16-Nov-15 A	19-Nov-15 A	100																		
Bid / Advertise - Pump Station 7	29	0	20-Nov-15 A	18-Dec-15 A	100																		
Bid Opening - Pump Station 7	1	0	22-Dec-15 A	22-Dec-15 A	100																		
Award / NTP - Pump Station 7	90	0	23-Dec-15 A	15-Mar-17 A	100																		
Construction - Pump Station 7	540	0	15-Mar-17 A	13-May-19 A	100																		
S3P311-06M - PS6 & PS7 Construction Management																							
CM Contract																							
RFP / Advertise CM Services - PS6, PS7 & PS8	29	0	22-May-15 A	19-Jun-15 A	100																		
Award / NTP CM Services - PS6, PS7 & PS8	90	0	20-Jun-15 A	15-Mar-17 A	100																		
S3P311-08G - East Avenue																							
CM Contract																							
RFP / Advertise CM Services - East Avenue Pump Station	29	0	08-Mar-19 A	05-Apr-19 A	100																		
Award / NTP CM Services - East Avenue Pump Station	180	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																		

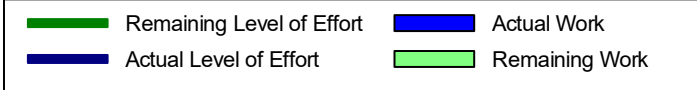
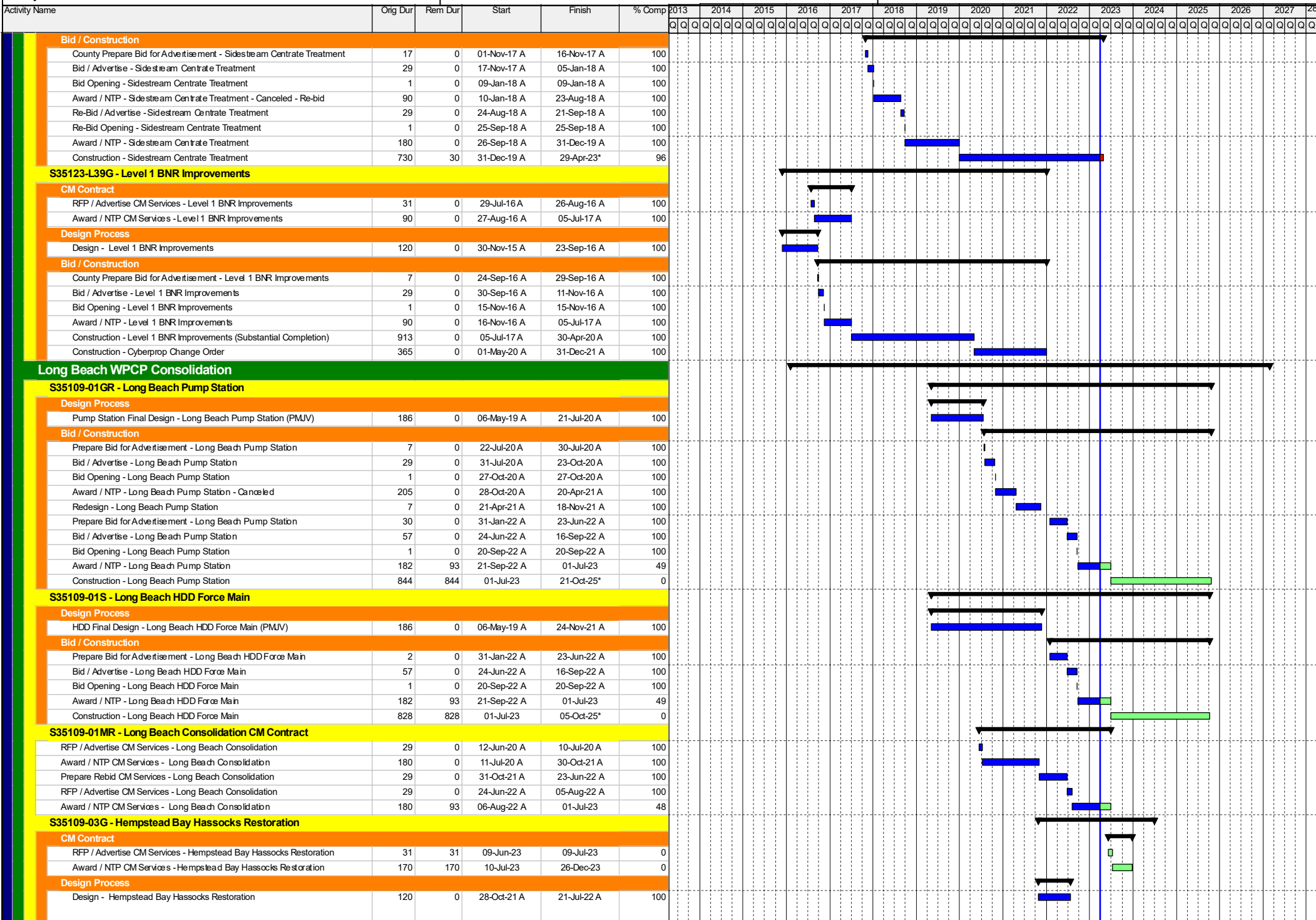
■ Remaining Level of Effort
 ■ Actual Work
■ Actual Level of Effort
 ■ Remaining Work



Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	28			
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
S3P311-09M - Hempstead Wastewater Pumping Station & Force Main CM																								
CM Contract																								
RFP / Advertise CM Services - Hempstead Wastewater Pump Sta & FM	29	0	17-Oct-14 A	14-Nov-14 A	100																			
Award / NTP CM Services - Hempstead Wastewater Pump Sta & FM	90	0	15-Nov-14 A	01-Feb-16 A	100																			
S3P311-10G - Lawrence PS (STP) & Sage Lake PS																								
CM Contract																								
RFP / Advertise CM Services - Lawrence STP & Sage Lake PS	28	0	25-Jan-16 A	22-Feb-16 A	100																			
Award / NTP CM Services - Lawrence STP & Sage Lake PS	90	0	23-Feb-16 A	22-Mar-17 A	100																			
Design Process																								
Preliminary Design - Lawrence STP & Sage Lake PS	75	0	02-Jun-14 A	12-Sep-14 A	100																			
RFP / Advertise Final Design - Lawrence STP & Sage Lake PS	29	0	12-Sep-14 A	10-Oct-14 A	100																			
Award / NTP Final Design - Lawrence STP & Sage Lake PS	61	0	11-Oct-14 A	15-Sep-15 A	100																			
Final Design - Lawrence STP & Sage Lake PS	180	0	15-Sep-15 A	08-Mar-16 A	100																			
Bid / Construction																								
County Prepare Bid for Advertisement - Lawrence STP & Sage Lake PS	7	0	09-Apr-16 A	14-Apr-16 A	100																			
Bid / Advertise - Lawrence STP & Sage Lake PS	29	0	15-Apr-16 A	13-May-16 A	100																			
Bid Opening - Lawrence STP & Sage Lake PS	1	0	17-May-16 A	17-May-16 A	100																			
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																			
NODPW 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																			

█ Remaining Level of Effort
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█ 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																							
Prepare Bid for Advertisement - Hempstead Bay Hassocks Restoration	7	7	09-Jun-23*	15-Jun-23	0																		
Bid / Advertise - Hempstead Bay Hassocks Restoration	29	29	16-Jun-23	14-Jul-23	0																		
Bid Opening - Hempstead Bay Hassocks Restoration	1	1	18-Jul-23	18-Jul-23	0																		
Award / NTP - Hempstead Bay Hassocks Restoration	170	170	19-Jul-23	04-Jan-24	0																		
Construction - Hempstead Bay Hassocks Restoration	180	180	05-Jan-24	02-Jul-24*	0																		
S35109-05 - Collection System Pump Station Mitigation																							
CM Contract																							
RFP / Advertise CM Services - Collection System Pump Station Mitigation	29	29	31-May-24	28-Jun-24	0																		
Award / NTP CM Services - Collection System Pump Station Mitigation	180	180	29-Jun-24	25-Dec-24	0																		
Design Process																							
Preliminary Design - Collection System Pump Station Mitigation	180	67	03-Jan-23 A	05-Jun-23	63																		
RFP / Advertise Final Design - Collection System Pump Station Mitigation	29	29	06-Jun-23	04-Jul-23	0																		
Award / NTP Final Design - Collection System Pump Station Mitigation	180	180	04-Jul-23	30-Dec-23	0																		
Final Design - Collection System Pump Station Mitigation	153	153	30-Dec-23	30-May-24	0																		
Bid / Construction																							
County Prepare Bid for Advertisement - Collection System Pump Station Mitigation	7	7	31-May-24	06-Jun-24	0																		
Bid / Advertise - Collection System Pump Station Mitigation	29	29	07-Jun-24	05-Jul-24	0																		
Bid Opening - Collection System Pump Station Mitigation	1	1	09-Jul-24	09-Jul-24	0																		
Award / NTP - Collection System Pump Station Mitigation	180	180	10-Jul-24	05-Jan-25	0																		
Construction - Collection System Pump Station Mitigation	548	548	06-Jan-25	07-Jul-26*	0																		
S35109-06 - Long Beach WPCP Decommissioning																							
CM Contract																							
RFP / Advertise CM Services - WPCP Decommissioning	29	29	28-Apr-25	26-May-25	0																		
Award / NTP CM Services - WPCP Decommissioning	180	180	27-May-25	22-Nov-25	0																		
Design Process																							
Prepare Design RFP - WPCP Decommissioning	90	90	05-Jul-23*	02-Oct-23	0																		
RFP / Advertise Final Design - WPCP Decommissioning	29	29	03-Oct-23	31-Oct-23	0																		
Award / NTP Final Design - WPCP Decommissioning	180	180	31-Oct-23	27-Apr-24	0																		
Final Design - WPCP Decommissioning	366	366	27-Apr-24	27-Apr-25	0																		
Bid / Construction																							
County Prepare Bid for Advertisement - WPCP Decommissioning	7	7	29-Apr-25	05-May-25	0																		
Bid / Advertise - WPCP Decommissioning	29	29	07-May-25	04-Jun-25	0																		
Bid Opening - WPCP Decommissioning	1	1	08-Jun-25	08-Jun-25	0																		
Award / NTP - WPCP Decommissioning	180	180	09-Jun-25	05-Dec-25	0																		
Construction - WPCP Decommissioning	450	450	06-Dec-25	28-Feb-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		22-Feb-28	0																		

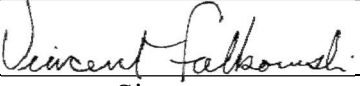
█ Remaining Level of Effort
 █ Actual Work
 █ Actual Level of Effort
 █ Remaining Work

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
		4/28/2023
Signature		Date Signed