

April 29, 2019

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

Agreement DEC Index No: CO 1-20170626-244

Bay Park Sewage Treatment Plant  
**2019 Q1 Quarterly Report**

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Dear Mr. Hampston:

We are submitting herewith our Quarterly Report for the period of January 1, 2019 through March 31, 2019.

Very truly yours,



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

<b>c:</b>	<b>NCDPW</b> <i>Kenneth Arnold</i> <i>Edward Visone</i> <i>Jane Houdek</i>	<b>Hazen and Sawyer</b> <i>Mark Hanson</i> <i>Paul Saurer</i> <i>Eric Mills</i> <i>Tom Zakrzewski</i>	<b>ARCADIS</b> <i>Peter Glus</i> <i>Greg Bazydola</i> <i>Maryanne Dioquino</i>	<b>DEC</b> <i>Cathy Haas</i> <i>Katie French</i> <i>Paul Harding</i> <i>Brian Lee</i> <i>Josh Lin</i>
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# DEC Agreement Q1 2019 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 salt water from the nearby bay area. To correct the damage to the plant, improve the effluent quality and make the plant less vulnerable to future storms the County committed to construct improvements.

The construction of the improvements is catalogued in the Agreement with the New York State Department of Environmental Conservation CO 1-20170626-244 ("Agreement") in January 2018. In accordance with Section VI, Paragraphs A-C of the Agreement the DPW hereby submits to the New York State Department of Environmental Conservation (DEC) the Quarterly Report for the period of January 1, 2019 through March 31, 2019.

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

## I.0

## Executive Summary

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The Bay Park Sewage Treatment Facility Agreement (“Agreement”) Index No. CO 1-20170626-244, was entered into by the County of Nassau (“County”) and the New York State Department of Environmental Conservation (“DEC”) and became effective on January 11, 2018.

Pursuant to Section VI, Paragraph A of the Agreement, “The County (for work not performed by the State or its contractor) shall submit quarterly construction reports (“Quarterly Reports”) to the DEC. The Quarterly Reports shall describe the actions which have been taken toward achieving compliance with this Agreement during the previous three-month period”. The Agreement requires that this report provide:

1. A list of the County's or construction contracts necessary to fulfill the requirements of compliance milestones of this Agreement as such milestones are set forth in the Appendices. This list shall identify, by percentage, the amount of the contract that has been completed;
2. A detailed description of: (a) the work performed pursuant to this Agreement during the reporting period, including the status of all milestones; (b) all anticipated activities for the next three-month period; and (c) the status and cost report for all EBPs required by this Agreement;
3. Information regarding unresolved delays encountered or anticipated that may affect the future schedule for implementation of the County's obligations under this Agreement, and efforts made to mitigate and/or cure those delays or anticipated delays;
4. A description of community relations activities during the reporting period and the activities anticipated for the next three months;
5. Any changes in key personnel; and
6. Any other issues with the potential to materially affect the projects set forth in this Agreement.

Additional information is included to provide a comprehensive representation of the County's efforts towards achieving compliance with the Agreement. This Quarterly Report updates the status and progress of DPW's compliance with the milestones set forth in the Agreement during the period from January 1, 2019 through March 31, 2019 (“Reporting Quarter”).

There are no key personnel changes to report this quarter.

I.0

## Modification Request and Force Majeure Status

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

**Table 1 – Modification Requests and Force Majeure Notifications**

Milestone	Agreement Date	Mod request letter date	Revised date requested	DEC Response Date	Modified Milestone Date
Raw Sewage Pumping Facility NTP	12/3/2018	8/24/2018	5/15/2019	9/12/2018	5/15/2019
Raw Sewage Pumping Facility CC	12/1/2020	8/24/2018	2/27/2022	9/12/2018	2/27/2022
Effluent Screening Facility NTP	8/21/2018	8/24/2018	2/21/2019	9/12/2018	2/21/2019
Effluent Screening Facility CC	7/29/2020	8/24/2018	10/14/2021	9/12/2018	10/14/2021
Secondary Flood Protection NTP	6/5/2018	8/24/2018	2/15/2019	9/12/2018	2/15/2019
Secondary Flood Protection CC	7/26/2020	8/24/2018	8/15/2021	9/12/2018	8/15/2021
Stormwater Pump Stations CC	3/31/2018	8/24/2018	3/31/2019	9/12/2018	3/31/2019
3 Generator Operation	11/30/2018	8/24/2018	3/31/2019	9/12/2018	3/31/2019
3 Generator Operation	3/31/2019	1/10/2019*	5/19/2019	2/22/2019	5/19/2019
Hot Water Piping System Design, NTP, CC	Multiple	8/24/2018	Removal from Agreement	9/12/2018	Project Removed
East Avenue Ejector Station NTP	8/19/2018	8/24/2018	4/15/2019	9/12/2018	4/15/2019
East Avenue Ejector Station CC	12/28/2019	8/24/2018	2/13/2021	9/12/2018	2/13/2021
Sidestream Deammonification NTP	6/12/2018	8/24/2018	3/25/2019	9/12/2018	3/25/2019
Sidestream Deammonification CC	12/28/2019	8/24/2018	9/25/2021	9/12/2018	7/8/2021
Effluent Tide Pumping Facilities CC	5/28/2020	10/19/2018*	1/15/2021	12/20/2018	1/15/2021

\**Force Majeure*

## II.0

## Design Milestone Status

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

**Table 2 – Design Completion Milestones**

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

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

### **Project Notes:**

All agreement design milestones have been completed and certifications accepted.

## III.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**

<b>Milestone</b>	<b>Agreement Date</b>	<b>Actual/Forecast</b>
Raw Sewage Pumping Facility	5/15/2019	9/8/2019
Effluent Screening and Disinfection	2/27/2019	8/28/2019
Secondary Flood Protection	2/21/2019	6/4/2019
East Avenue Ejector Station	4/15/2019	10/5/2019
Sidestream Deammonification	3/25/2019	6/4/2019

**Table 4 – Construction Completion Milestones**

<b>Milestone</b>	<b>Agreement Date</b>	<b>Actual/Forecast</b>	<b>% Complete</b>
1 Barnes Avenue – Baldwin	12/31/2019	7/30/2019	95%
2 Raw Sewage Pumping Facility	2/27/2022	3/5/2022	0%
3 Sludge Dewatering Facilities	12/15/2018	10/12/2018 A	100%
4 Effluent Screening and Disinfection	10/14/2021	10/20/2021	0%
5 Effluent Tide Pumping Facilities	1/15/2021	4/22/2020	40%
6 Electrical Distribution Phase E1-E3	9/21/2019	10/10/2019	97%
7 Secondary Flood Protection	8/15/2021	2/13/2021	0%
8 Stormwater Pump Stations	3/31/2019	5/28/2019	95%
9 Upgrade To 3 Generator Operation	5/19/2019	5/28/2019	85%
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	4/15/2019	95%
14 Lawrence & Sage Lake PS	8/30/2018	8/13/2018 A	100%
15 East Avenue Ejector Station	2/13/2021	3/27/2021	0%
16 Level 1 BNR	4/8/2020	3/30/2020	50%
17 Sidestream Deammonification	7/8/2021	6/2/2021	0%

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

## **Project Notes:**

### **1. Barnes Avenue – Baldwin**

This project is nearing completion is anticipated to be at substantial completion in late Q2 2019, ahead of the milestone date.

#### Progress This Quarter:

Contract #S3P311-09S Hempstead Wastewater Force Main:

- Installed 16” to 14” Bypass Interconnection at Newmans Ct. & South Franklin St. intersection.
- Installed 15” Sanitary Line to SMH-02 in Clinton St.
- Installed 14” X 8” Tee and two (2) 14” valves to facilitate temporary flow diversion & installation of 16” to 14” Bypass Interconnection.

Contract #S3P311-09G Hempstead Wastewater Pumping Station:

- Continued site grading and bollard installation.
- Performed five-day “live sewage test” of pump station system.
- Located & verified sanitary invert in Weekes PS Wet Well.

#### Expected Progress Next Quarter:

S3P311-09S

- Permanent top course asphalt paving on South Franklin St., Clinton St. & Jerusalem Ave.
- Line striping asphalt pavement on South Franklin St., Clinton St. & Jerusalem Ave.

S3P311-09G

- Installation of 12” Sanitary line at the HPS site from Weeks Park PS.

### **2. Raw Sewage Pumping Facility**

This project will not meet the NTP milestone date of May 15, 2019. A milestone modification request will be submitted under separate cover discussing the delay and requested extension of time.

#### Progress This Quarter:

The design engineer completed the bid documents and the contract was advertised February 1, 2019. Bids were received March 12, 2019.

#### Expected Progress Next Quarter:

The County will be holding the pre-award meeting with the low bid contractor and proceed with the award process.

### **3. Sludge Dewatering Facilities**

This project is nearing completion and is anticipated to achieve substantial completion in early Q2 2019. All process equipment has been accepted for beneficial use and DEC has accepted the County’s milestone certification for construction completion.



Progress This Quarter:

- Continued electric as-built drawings, labeling, communication and power conduit for AC units.
- Continued painting punch list.
- Continued HVAC and plumbing punch list.
- Continued PMCS integration.
- Continued misc. patching.
- Continued installation of door hardware.
- Continued flood plank testing.
- Continued water testing flood doors and planks.
- Continued de-mobilization.
- Continued general punch list work.

Expected Progress Next Quarter:

- Continue PMCS and HMCS integration.
- Continue HVAC & Fan installations and testing.
- Electric conduit labeling.
- Conveying system repairs.
- Replacement of exterior and installation of new interior doors.
- FM-200, Fire Suppression, and Fire Alarm System installations.
- General punch list work items.

**4. Effluent Screening and Disinfection**

Progress This Quarter:

The construction project was advertised and bids received. The County is continuing with the award process. The contract for construction management services was advertised February 1, 2019 and proposals were received March 1, 2019.

Expected Progress Next Quarter

The County will continue with the award process for the construction and construction management contracts. The construction NTP date is currently forecasted beyond the milestone date but the County is taking steps to accelerate the award of the construction services contract. The forecasted construction completion is currently a week behind the milestone date. A milestone modification request will be submitted under separate cover discussing the delay and requested extension of time.

**5. Effluent Tide Pumping Facilities**

The project is proceeding and is projected to be complete before the milestone date.

Progress This Quarter:

- Installed insulation material under the First-Floor Slab of the New Electrical Annex Building.
- Installed Equipment Pads in the New Electrical Annex Building.
- Installed electrical conduits under the First-Floor slab of the New Electrical Annex Building.
- Installed CMU wall for the Vestibule and the Communication Room in the New Annex Building.

- Started the installation of Switchgear

#### Expected Progress Next Quarter

- Perform Expansion/Control Joints work in the New Electrical Annex Building.
- Install Roofing.
- Install Support Rails for Roof Equipment.
- Paint the New Electrical Annex Building.
- Continue with the installation of Switchgear.
- Install Support Rails for Equipment in the New Electrical Annex Building.
- Install Battery Bank and Cabinet Equipment in the Electrical Room.
- Install Battery Charger with Distribution Panel in the Electrical Room.
- Install New Air Conditioner Units on the New Annex Building Roof.

### **6. Electrical Distribution System Phases E1-E3**

Phases E1 and E2 were completed 10/19/2016 and 9/29/2017, respectively. Phase E3 completion continues to project ahead of the milestone. The transition from the old main substation to the new is reflected in a plan recently submitted by the contractor. If implemented as demonstrated, this project may project past the milestone in the next schedule update. The County's consultants will work with the contractor in an effort to improve upon the plan and reduce activity duration.

#### Progress This Quarter:

- Continued installation of curtain wall system.
- Continued various conduit and wire installation in MSS.
- Punchlist items for S1 & EG Switchgear.
- Energized SE1, Utility Load Break Switch, MCC-MSS, CC transformers and USS1.
- Energized 480V and 120/208V distribution and lighting panels.
- Continued installation and splicing for 480V feeds to existing MCC's in Existing Main Building.
- Continued installation of H-20 and quazite handholes and duct banks for Site Lighting.
- Started pulling wire for site lighting in Southeast quadrant of plant.
- Removed interior temporary power services in MSS.
- Resumed installation of sun shades.
- Completed termination of control wiring at Johnson Control HVAC panel

#### Expected Progress Next Quarter:

- Complete installation of canopy lower panels on east and west elevation.
- Complete installation of curtain wall system.
- Complete installation of remaining sunshades.
- Installation of conduit and wire for IO battery systems to Relay Panel.
- Installation of site lighting H-20 and quazite handholes, associated duct banks and pull wires.
- Continue pulling 480V cables for Main Building various MCCs.
- Commence check-out of HVAC systems, FA system, Fire Suppression, Gas Detection, Fuel Delivery and Emergency Generators.

- Continue to work on punchlist items for S1 and EG Switchgear.

## **7. Secondary Flood Protection**

### Progress This Quarter:

The County is progressing the award and NTP. There have been delays due to the implementation of new compliance procedures.

### Expected Progress Next Quarter:

This project is expected to be awarded and NTP will be issued upon final procurement of a Construction Management consultant. A milestone modification request will be submitted under separate cover discussing the delay and requested extension of time.

## **8. Stormwater Pump Stations**

The work has been delayed by contractor performance issues and is currently projected to be substantially complete May 28, 2019, beyond the agreement milestone date of March 31, 2019. However, the pump stations achieved full storm water pumping functionality on March 28, 2019 and the County has submitted certification of the milestone on that basis.

### Progress This Quarter:

- Pulled and Terminated South MCC Feeder Conductors from Substation No. 3.
- Completed South Pump Station Diversion Chamber Tie in to Stormwater system.
- Completed Installation of Structures and Piping for Miscellaneous Improvement No. 1.
- Completed Yellow and Blue Tag Testing for the North Submersible Pumps.
- Completed Manufacturer Field Test of South MCC Equipment.
- Completed Third Party Acceptance Testing of South MCC Equipment.
- Energized the South MCC.
- Completed the Yellow and Blue Tag Testing for the South Submersible Pumps.
- Started Installing the South MCC Building Sunshades.
- Pulled and Terminated all Conductors for the South MCC Panels.

### Expected Progress Next Quarter:

- Miscellaneous Stormwater Improvements.
- Start up and Test Gas Detection Systems in North & South Pump Stations.
- Start up and Test HVAC equipment in North & South Pump Stations.
- Install Lightning Protection at South Pump Station.
- Install Sun Screen System at South Pump Station.
- Install South MCC Exterior Door at South Pump Station.
- Install Exterior Lighting at South Pump Station.
- Install Roofing System at South Pump Station.
- Commence site restoration & paving

## **9. Upgrade to 3 Simultaneous Generator Operation**

The Force Majeure notification submitted reflecting manufacturing issues related to suppliers affected by hurricanes was accepted by DEC and the milestone date was extended to May 19,

2019. The project is currently projected to be substantially complete by May 28, 2019. One of the gas compressors developed a leak upon start up and was sent back to the factory. The County will work with the contractor to expedite the completion of the project though a Force Majeure notification will be submitted regarding this issue.

Progress This Quarter:

- Continued insulation of Natural Gas Compressors.
- Started and tested the first Natural Gas Compressor.
- Completed installation and testing of Starting Air and Service Air Compressors.

Expected Progress Next Quarter:

- Continue installation of Natural Gas Compressors.
- Troubleshooting NG Compressors and Starting Air Compressor control panel

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

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

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

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

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

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

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

The County has accepted all pump stations for beneficial use and milestone certification was submitted on February 28, 2019, ahead of the July 4, 2019 milestone date.

Progress This Quarter:

- Progressed Fire Alarm, Gas Detection, and Fuel Oil Tank Leak/ Level Monitoring work at Inwood/Bayview/Roslyn P.S.
- Progressed preliminary punch list items (installed new Peak Flow Pump platform and hoist at Bayview P.S.).
- Completed power cable installation and terminations for Inwood P.S. Peak Flow Pump portable generator connection cabinet.

Expected Progress Next Quarter:

- Complete Fire Alarm, Gas Detection, and Fuel Oil Tank Leak/Level Monitoring installations and field testing at all pump stations.
- Complete electrical service MOPO at Bayview P.S.
- Complete Gas Detection and Fire Alarm training.
- Perform 1910 OSHA inspection.
- Issue Substantial Completion and final punch list.

#### **14. Lawrence and Sage Lake Pump Stations**

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

#### **15. East Avenue Ejector Station**

The construction and construction management services contracts were advertised on March 8, 2019. Bids and proposals will have been received in April, 2019, and the County will proceed with the award process. The milestone date for NTP to 4/15/2019 will not be met, however the County will take steps to meet the construction completion milestone. A milestone modification request will be submitted under separate cover discussing the delay and requested extension of time.

#### **16. Level 1 BNR**

The project is currently projected to finish ahead of the milestone date, however Aeration Tanks No. 1, 2 and 3 all have been found to have frozen drain gates and water is infiltrating into AT No.3 through the bottom slab expansion joints. This will likely lead to some delays upon the next schedule update and a Force Majeure notification will be submitted under separate cover.

##### Progress This Quarter:

- Completed the installation of diffuser piping and mixers in Aeration Tank No. 4.
- Started up the diffuser and mixers in Aeration Tank No. 4.
- Restored the operation in Aeration Tank No .4 and took Aeration Tank No3. Off service
- Completed cleaning of Aeration Tank No. 3 and the removal of the existing diffusers.
- Conducted structural Inspection and started the concrete repair work.
- Installed Concrete SWAS Box in Pass 3A.
- Replaced seven existing non-operational drain gates in Aeration Tank No. 3.
- Started installation of MIC Coating on the sidewall.
- Started the installation of conduit from Aeration Building No. 2 to Aeration Tank No. 3.
- Started the interior renovation in Aeration Building No. 2 (lighting, and bathroom rehab).

##### Expected Progress Next Quarter:

- Replace the defoamant dilution valve after the Plant isolates the effluent water loop.
- Install the standpipe in the pipe gallery.
- Continue to install SWAS Piping in Pipe Gallery.
- Continue the installation of baffle wall, diffuser piping and mixer supports in Aeration Tank No. 4.

#### **17. Sidestream Deammonification**

Not yet in the construction phase. The NTP is currently projected beyond the milestone date of 3/25/2019. A milestone modification request will be submitted under separate cover discussing the delay and requested extension of time.

## IV.0

# Inter Municipal Agreement

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

Recently negotiations with Long Beach have resumed, with meetings held on March 28 and April 5, 2019. A draft IMA has been prepared. The County has had numerous conversations with the State to ensure that the terms of the IMA allow the project to be eligible for all available grants and loans. It is anticipated that the IMA will be submitted to the Long Beach City Council and the Nassau County Legislature for approval within 30 days.

V.0

## Nitrogen Interim Limit Schedule of Compliance

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

**Table 5 – Bay Park WPCP Interim Nitrogen Limits**

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

These milestones will be reviewed as the Sidestream Deammonification and Level 1 BNR projects progress through the construction phase.

## VI.0

## Diversion Project

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

**Table 6 – Diversion Project Milestones**

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

Progress This Quarter:

The preliminary designer has started work and submitted the Preliminary Engineering Report (PER) and the Environmental Work Plan (EWP) on March 27, 2019. This is the first milestone of their contract. It is currently under review.

Expected Progress Next Quarter:

Design workshops will be held and the designer will proceed towards the production of the Draft Design Criteria Package to be submitted in May, 2019.

Project Milestones:

NYSDEC is considering adjusting the milestones.



VII.0

## Environmental Benefit Projects

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The County is currently in the process of finalizing a design agreement under which the Kayak Dock design task will be assigned. This process includes encumbrance of all necessary funds outlined in the EBP Plan. The draft schedule for the kayak launch EBP, attached herein.

## VIII.0

## Certification of Completed Activities

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

**Table 7 – Completed Activities**

Milestone	Date Completed	Certification Submitted	Certification Accepted
Effluent Screening and Disinfection - Design Completion	1/5/2018	7/5/2018	9/13/2018
East Avenue Ejector Station - Design Completion	3/2/2018	7/5/2018	9/13/2018
Cedar Dr, Roosevelt et al PS - Construction Completion	1/12/2018	7/5/2018	11/27/2018
Wantagh, Newbridge et al PS – Construction Completion	2/12/2018	7/5/2018	11/27/2018
Sage Lake and Lawrence PS – Construction Completion	8/13/2018	8/24/2018	11/27/2018
Ocean Ave, Mill Road et al PS – Construction Completion	8/17/2018	9/19/2018	11/27/2018
Sludge Dewatering Facilities – Construction Completion	10/12/2018	10/24/2018	1/4/2019
Inwood, Doughty et al PS – Construction Completion	2/19/2019	2/28/2019	
Stormwater Pump Stations – Construction Completion	3/28/2019	4/3/2019	

IX.0

## Community Relations

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No community meetings were held this quarter. A meeting was held April 3, 2019 and meeting minutes will be provided in the Q2 2019 report.

X.0

## Attachments

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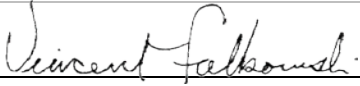
1. Program Master Schedule
2. Cedar Creek Kayak Launch Project Schedule

## XI.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
		4/29/2019
Signature		Date Signed

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Bay Park Master Schedule 190331</b>																	
<b>Existing Capital Projects</b>																	
<b>S3B119-05G - Generator Controls</b>																	
<b>Design</b>																	
Design - Generator Controls	74	0	21-Oct-13 A	22-Apr-14 A	100												
<b>Procurement</b>																	
Procurement - Generator Controls	121	0	28-Oct-13 A	25-Feb-14 A	100												
<b>Construction</b>																	
Temp Generators Off-line / Plant Power on House Generabis	0	0		18-Nov-14 A	100												
Construction - Generator Controls	533	0	15-Nov-13 A	24-Jun-16 A	100												
<b>S3B120-01G - Influent Screening Facility Improvements</b>																	
<b>CM Contract</b>																	
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												
<b>Construction Contract</b>																	
Bid / Advertise - Influent Screening	40	0	14-Oct-13 A	26-Nov-13 A	100												
Award / NTP - Influent Screening	90	0	27-Nov-13 A	27-May-14 A	100												
Construction - Influent Screening	913	0	27-May-14 A	09-Jun-17 A	100												
<b>S3B120-02G - Grit Removal Facility Improvements</b>																	
<b>CM Contract</b>																	
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												
<b>Construction Contract</b>																	
75% to 100% Design / Bid Documents - Grit Removal	236	0	06-May-13 A	12-Feb-14 A	100												
County Prepare Bid for Advertisement - Grit Removal	7	0	13-Feb-14 A	23-Feb-14 A	100												
Bid / Advertise - Grit Removal	56	0	24-Feb-14 A	21-Mar-14 A	100												
Bid Opening - Grit Removal	1	0	25-Mar-14 A	25-Mar-14 A	100												
Award / NTP - Grit Removal	63	0	26-Mar-14 A	20-Apr-15 A	100												
Construction - Grit Removal	821	0	20-Apr-15 A	18-Jul-17 A	100												
<b>S35100-01G - Cleaning &amp; Repair of Digesters &amp; Storage Tanks</b>																	
<b>Construction</b>																	
Construction - Digester Cleaning	720	0	20-May-13 A	16-Apr-15 A	100												
<b>S35114-03G - Sludge Thickening Facility Improvements</b>																	
<b>CM Contract</b>																	
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												
<b>Construction Contract</b>																	
Award / NTP - Sludge Thickening	64	0	21-Aug-13 A	24-Oct-13 A	100												
Construction - Sludge Thickening	730	0	28-Oct-13 A	30-Aug-16 A	100												
<b>S35116-01G - Odor Control at Bay Park &amp; Cedar Creek</b>																	
<b>CM Contract</b>																	
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												
<b>Construction Contract</b>																	
Award / NTP - Odor Control BP & CC WPCPs	64	0	21-Aug-13 A	23-Oct-13 A	100												
Construction - Odor Control BP & CC WPCPs	730	0	28-Oct-13 A	07-Nov-15 A	100												
<b>Hurricane Sandy Projects</b>																	
<b>FEMA Approval Process</b>																	
FEMA 404 Grants	60	0	12-Aug-13 A	31-Oct-13 A	100												
FEMA Finalize Damage Scope and Cost	45	0	12-Aug-13 A	19-Dec-13 A	100												
Submit 406 HMP	45	0	12-Aug-13 A	19-Dec-13 A	100												
FEMA 406 HMP Negotiation	90	0	06-Jan-14 A	15-Jan-14 A	100												

█ 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Construction - Phase E2 - USS No. 2	660	0	11-May-15 A	29-Sep-17 A	100												
<b>S35121-14F - Phase E3 Main Substation &amp; Electrical Distribution</b>																	
<b>Design Process</b>																	
Phase E3 Design - EDS - Main Substation	285	0	01-Apr-14 A	09-Feb-15 A	100												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - EDS Phase E3 - MSS	7	0	10-Feb-15 A	12-Feb-15 A	100												
Bid / Advertise - EDS Phase E3 - Main Substation	36	0	13-Feb-15 A	17-Apr-15 A	100												
Bid Opening - EDS Phase E3 - Main Substation	1	0	21-Apr-15 A	21-Apr-15 A	100												
Award / NTP - EDS Phase E3 - Main Substation	90	0	22-Apr-15 A	05-Oct-15 A	100												
Construction - Phase E3 - Main Substation	1095	194	05-Oct-15 A	10-Oct-19*	82												
<b>S35121-14M - Phase E2 &amp; E3 Construction Management</b>																	
<b>CM Contract</b>																	
RFP / Advertise CM Services - Electrical Phase E2 & E3	29	0	25-Jul-14 A	22-Aug-14 A	100												
Award / NTP CM Services - Electrical Phase E2 & E3	90	0	23-Aug-14 A	08-Jun-15 A	100												
<b>S35123-L33E - Phase E4 Electrical Utility Connections</b>																	
<b>CM Contract</b>																	
RFP / Advertise CM Services - Phase E4 Electrical Utility Connections	29	29	28-Dec-19	25-Jan-20	0												
Award / NTP CM Services - Phase E4 Electrical Utility Connections	180	180	26-Jan-20	23-Jul-20	0												
<b>Design Process</b>																	
Preliminary Design - Phase E4 Electrical Utility Connections	90	0	15-Dec-17 A	04-Jun-18 A	100												
RFP / Advertise - Final Design - Phase E4 Electrical Utility Connections	29	0	12-Oct-18 A	09-Nov-18 A	100												
Award / NTP Final Design - Phase E4 Electrical Utility Connections	120	142	09-Nov-18 A	19-Aug-19	0												
Final Design - Phase E4 Electrical Utility Connections	180	180	19-Aug-19	14-Feb-20	0												
PSE&G Coordination	5	1271	12-Aug-13 A	21-Sep-22	0												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Phase E4 Electrical Utility Connections	7	7	15-Feb-20	21-Feb-20	0												
Bid / Advertise - Phase E4 Electrical Utility Connections	29	29	23-Feb-20	22-Mar-20	0												
Bid Opening - Phase E4 Electrical Utility Connections	1	1	26-Mar-20	26-Mar-20	0												
Award / NTP - Phase E4 Electrical Utility Connections	180	180	27-Mar-20	22-Sep-20	0												
Construction - Phase E4 Electrical Utility Connections	730	730	22-Sep-20	21-Sep-22*	0												
<b>S35121-16A - Engine Facility Auxiliary Upgrades</b>																	
<b>Design Process</b>																	
Final Design - Engine Facility Auxiliary Upgrades	195	0	01-Nov-15 A	30-Sep-16 A	100												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Engine Facility Auxiliary Upgrades	21	0	30-Sep-16 A	20-Oct-16 A	100												
Bid / Advertise - Engine Facility Auxiliary Upgrades	29	0	21-Oct-16 A	18-Nov-16 A	100												
Bid Opening - Engine Facility Auxiliary Upgrades	1	0	22-Nov-16 A	22-Nov-16 A	100												
Award / NTP - Engine Facility Auxiliary Upgrades	90	0	23-Nov-16 A	05-Jul-17 A	100												
Construction - Engine Facility Auxiliary Upgrades	365	59	05-Jul-17 A	28-May-19*	84												
<b>S35121-16G - Secondary Flood Protection &amp; Hardening of Critical Facilities</b>																	
<b>CM Contract</b>																	
RFP / Advertise CM Services - Secondary Flood Protection	29	0	28-Jul-17 A	25-Aug-17 A	100												
Award / NTP CM Services - Secondary Flood Protection	90	65	26-Aug-17 A	03-Jun-19	28												
<b>Design Process</b>																	
Preliminary Design - Secondary Flood Protection	90	0	01-Dec-14 A	29-Oct-15 A	100												
Finalize Technical Memorandum - Secondary Flood Protection	45	0	21-Apr-14 A	29-Oct-15 A	100												
RFP / Advertise Final Design - Secondary Flood Protection	29	0	30-Oct-15 A	04-Dec-15 A	100												
Award / NTP Final Design - Secondary Flood Protection	90	0	05-Dec-15 A	08-Nov-16 A	100												
Final Design - Secondary Flood Protection	210	0	09-Nov-16 A	07-Jul-17 A	100												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Secondary Flood Protection	7	0	10-Jul-17 A	27-Jul-17 A	100												
Bid / Advertise - Secondary Flood Protection	29	0	27-Oct-17 A	01-Dec-17 A	100												
Bid Opening - Secondary Flood Protection	1	0	05-Dec-17 A	05-Dec-17 A	100												
Award / NTP - Secondary Flood Protection	90	65	06-Dec-17 A	03-Jun-19	28												

■ 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>S35121-18G - Flood Protection Phase 1 Stormwater Pumping Stations</b>																	
<b>CM Contract</b>																	
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												
<b>Design Process</b>																	
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												
<b>Bid / Construction</b>																	
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	59	31-May-16 A	28-May-19*	92												
<b>S35121-18S - Flood Protection Phase 2 Stormwater Green Infrastructure</b>																	
<b>CM Contract</b>																	
<b>Design Process</b>																	
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												
<b>Bid / Construction</b>																	
<b>S35123-L37 - Miscellaneous Storm Repairs, Mitigation &amp; Site Restoration</b>																	
<b>CM Contract</b>																	
RFP / Advertise CM Services - Misc Storm Repairs, Mitigation & Restoration	29	29	07-Aug-20	04-Sep-20	0												
Award / NTP CM Services - Misc Storm Repairs, Mitigation & Restoration	180	180	05-Sep-20	03-Mar-21	0												
<b>Design Process</b>																	
Conceptual Design - Misc Storm Repairs, Mitigation & Site Restoration	90	90	04-Jun-19	01-Sep-19	0												
RFP / Advertise - Final Design - Misc Storm Repairs, Mitigation & Site Restoration	29	29	02-Sep-19	30-Sep-19	0												
Award / NTP Final Design - Misc Storm Repairs, Mitigation & Site Restoration	180	180	01-Oct-19	28-Mar-20	0												
Final Design - Misc Storm Repairs, Mitigation & Site Restoration	180	180	28-Mar-20	23-Sep-20	0												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Misc Storm Repairs, Mitigation & Site Restoration	7	7	26-Sep-20	02-Oct-20	0												
Bid / Advertise - Misc Storm Repairs, Mitigation & Site Restoration	29	29	03-Oct-20	31-Oct-20	0												
Bid Opening - Misc Storm Repairs, Mitigation & Site Restoration	1	1	04-Nov-20	04-Nov-20	0												
Award / NTP - Misc Storm Repairs, Mitigation & Site Restoration	180	180	05-Nov-20	03-May-21	0												
Construction - Misc Storm Repairs, Mitigation & Site Restoration	731	731	03-May-21	03-May-23*	0												
<b>S3B119-06G - Bay Park STP Heating Hot Water Piping Temporary System</b>																	
<b>Design Process</b>																	
Final Design - Heating Hot Water Piping Temporary System	90	0	01-May-15 A	17-Jun-15 A	100												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Heating Hot Water Piping Temporary System	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												
<b>S35121-06G - Aeration Blower Facility</b>																	
<b>CM Contract</b>																	
RFP / Advertise CM Services - Aeration Blower Facility	29	29	31-Dec-20	28-Jan-21	0												
Award / NTP CM Services - Aeration Blower Facility	180	180	29-Jan-21	27-Jul-21	0												
<b>Design Process</b>																	
Preliminary Design - Aeration Blower Facility	180	0	01-Nov-16 A	15-Dec-16 A	100												
Resolve Power Availability Issue for Aeration Blower Building	147	239	01-Jul-18 A	24-Nov-19	0												
RFP / Advertise - Final Design - Aeration Blower Facility	29	29	25-Nov-19	23-Dec-19	0												
Award / NTP Final Design - Aeration Blower Facility	180	180	24-Dec-19	20-Jun-20	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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Construction - Pump Station 4	420	0	16-Nov-15 A	29-Aug-17 A	100												
<b>S3P311-05G - Millar, Mott, Long Beach, Royal &amp; Lido</b>																	
<b>Design Process</b>																	
Finalize Technical Memorandum - Pump Station 5	140	0	12-Aug-13 A	22-Nov-13 A	100												
Preliminary Design - Pump Station 5	67	0	23-Jan-14 A	27-Mar-14 A	100												
RFP / Advertise Final Design - Pump Station 5	30	0	28-Mar-14 A	25-Apr-14 A	100												
Award / NTP Final Design - Pump Station 5	94	0	26-Apr-14 A	01-Dec-14 A	100												
Final Design - Pump Station 5	90	0	01-Dec-14 A	01-May-15 A	100												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Pump Station 5	7	0	02-May-15 A	21-May-15 A	100												
Bid / Advertise - Pump Station 5	29	0	22-May-15 A	19-Jun-15 A	100												
Bid Opening - Pump Station 5	1	0	23-Jun-15 A	23-Jun-15 A	100												
Award / NTP - Pump Station 5	90	0	24-Jun-15 A	15-Nov-15 A	100												
Construction - Pump Station 5	540	0	16-Nov-15 A	29-Aug-17 A	100												
<b>S3P311-04M - PS4 &amp; PS5 Construction Management</b>																	
<b>CM Contract</b>																	
RFP / Advertise CM Services - PS4 & PS5	29	0	07-Nov-14 A	05-Jan-15 A	100												
Award / NTP CM Services - PS4 & PS5	90	0	06-Jan-15 A	16-Nov-15 A	100												
<b>S3P311-06G - Ocean, Mill, Woodmere &amp; Longacre</b>																	
<b>Design Process</b>																	
Finalize Technical Memorandum - Pump Station 6	140	0	12-Aug-13 A	22-Nov-13 A	100												
Preliminary Design - Pump Station 6	67	0	23-Feb-14 A	25-Apr-14 A	100												
RFP / Advertise Final Design - Pump Station 6	29	0	09-May-14 A	30-May-14 A	100												
Award / NTP Final Design - Pump Station 6	90	0	31-May-14 A	15-Apr-15 A	100												
Final Design - Pump Station 6	90	0	15-Apr-15 A	17-Sep-15 A	100												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Pump Station 6	7	0	18-Sep-15 A	24-Sep-15 A	100												
Bid / Advertise - Pump Station 6	29	0	25-Sep-15 A	23-Oct-15 A	100												
Bid Opening - Pump Station 6	1	0	27-Oct-15 A	27-Oct-15 A	100												
Award / NTP - Pump Station 6	90	0	28-Oct-15 A	15-Mar-17 A	100												
Construction - Pump Station 6	550	0	15-Mar-17 A	17-Aug-18 A	100												
<b>S3P311-07G - Inwood, Doughty, Bayview &amp; Roslyn</b>																	
<b>Design Process</b>																	
Finalize Technical Memorandum - Pump Station 7	140	0	12-Aug-13 A	22-Nov-13 A	100												
Preliminary Design - Pump Station 7	67	0	23-Mar-14 A	28-May-14 A	100												
RFP / Advertise Final Design - Pump Station 7	29	0	30-May-14 A	27-Jun-14 A	100												
Award / NTP Final Design - Pump Station 7	90	0	28-Jun-14 A	13-May-15 A	100												
Final Design - Pump Station 7	90	0	13-May-15 A	16-Nov-15 A	100												
<b>Bid / Construction</b>																	
County Prepare Bid for Advertisement - Pump Station 7	7	0	16-Nov-15 A	19-Nov-15 A	100												
Bid / Advertise - Pump Station 7	29	0	20-Nov-15 A	18-Dec-15 A	100												
Bid Opening - Pump Station 7	1	0	22-Dec-15 A	22-Dec-15 A	100												
Award / NTP - Pump Station 7	90	0	23-Dec-15 A	15-Mar-17 A	100												
Construction - Pump Station 7	540	16	15-Mar-17 A	15-Apr-19*	97												
<b>S3P311-06M - PS6 &amp; PS7 Construction Management</b>																	
<b>CM Contract</b>																	
RFP / Advertise CM Services - PS6, PS7 & PS8	29	0	22-May-15 A	19-Jun-15 A	100												
Award / NTP CM Services - PS6, PS7 & PS8	90	0	20-Jun-15 A	15-Mar-17 A	100												
<b>S3P311-08G - East Avenue</b>																	
<b>CM Contract</b>																	
RFP / Advertise CM Services - East Avenue Pump Station	29	6	08-Mar-19 A	05-Apr-19	79												
Award / NTP CM Services - East Avenue Pump Station	180	180	06-Apr-19	02-Oct-19	0												
<b>Design Process</b>																	
Prepare Flow Study & Technical Memorandum - Pump Station 8	27	0	18-Dec-15 A	14-Jul-16 A	100												

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Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Design Process</b>																		
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													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Roslyn Village, Morgan Park & Shore Rd	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	93	13-Dec-17 A	01-Jul-19	0													
Construction - Roslyn Village, Morgan Park & Shore Rd	365	365	02-Jul-19	30-Jun-20*	0													
<b>S80019-03GR - Cedar Point Lake (Doxey Brook) Pump Station</b>																		
<b>CM Contract</b>																		
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													
<b>Design Process</b>																		
Final Design - Cedar Point Lake PS	180	0	10-Feb-16 A	28-Oct-16 A	100													
<b>Bid / Construction</b>																		
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	254	03-Jan-18 A	09-Dec-19*	53													
<b>Nitrogen Reduction Projects</b>																		
<b>S35123-L38G - Sidestream Deammonification</b>																		
<b>CM Contract</b>																		
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	65	26-Aug-17 A	03-Jun-19	28													
<b>RFP Process</b>																		
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													
<b>Design Process</b>																		
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													
<b>Bid / Construction</b>																		
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	65	26-Sep-18 A	03-Jun-19	64													
Construction - Sidestream Centrate Treatment	730	730	04-Jun-19	02-Jun-21*	0													
<b>S35123-L39G - Level 1 BNR Improvements</b>																		
<b>CM Contract</b>																		
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													
<b>Design Process</b>																		
Design - Level 1 BNR Improvements	120	0	30-Nov-15 A	23-Sep-16 A	100													
<b>Bid / Construction</b>																		
County Prepare Bid for Advertisement - Level 1 BNR Improvements	7	0	24-Sep-16 A	29-Sep-16 A	100													
Bid / Advertise - Level 1 BNR Improvements	29	0	30-Sep-16 A	11-Nov-16 A	100													

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





Cedar Creek WPCP Kayak Launch Project

ID	Task Name	Duration	Start	Finish	2020				2021			
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1
1	Design Procurement	112 days	Mon 4/8/19	Tue 9/10/19								
2	Design	135 days	Wed 9/11/19	Tue 3/17/20								
3	Construction Procurement	203 days	Wed 3/18/20	Fri 12/25/20								
4	Pre-Construction; Sub-Approval; Site-Layout & Submittals	135 days	Mon 12/28/20	Fri 7/2/21								
5	Sitework & Piles	45 days	Mon 7/5/21	Fri 9/3/21								
6	Dock Construction & Close-Out	45 days	Mon 9/6/21	Fri 11/5/21								

Project: Kayak Launch  
Date: Mon 4/8/19

Task		Milestone		External Tasks	
Split		Summary		External Milestone	
Progress		Project Summary		Deadline	