

July 6, 2018 (REVISED)

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Agreement DEC Index No: CO 1-20170626-244

Bay Park Sewage Treatment Plant  
**2018 Q1 Quarterly Report - Revised**

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Dear Mr. DiMura:

We are submitting herewith our revised Quarterly Report for the period of January 1, 2018 through March 31, 2018, revised per the comments received in your letter dated June 21, 2018.

Very truly yours,



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

<b>c:</b>	<b>NCDPW</b> <i>Kenneth Arnold</i> <i>Damon Urso</i> <i>Thomas Immerso</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>Joseph DiMura</i> <i>Edward Hampston</i> <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 2018 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, 2018 through March 31, 2018.

## 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 Appendices A, and C-E. 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, 2018 through March 31, 2018 (“Reporting Quarter”).

## II.0

## Design Milestone Status

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

**Table 1 – Design Completion Milestones**

<b>Milestone</b>	<b>Agreement Date</b>	<b>Actual/Forecast</b>
Effluent Screening and disinfection	4/8/2018	1/5/2018
Hot water piping system	10/19/2018	10/19/2018
East Avenue Ejector Station	2/8/2018	3/2/2018

### **Project Notes:**

#### **Effluent Screening and Disinfection**

The design phase was completed in advance of the milestone date and certification of completion will be submitted.

**Progress This Quarter:**

The design phase was completed this quarter.

**Expected Progress Next Quarter:**

The County will initiate procurement of a construction manager for this project and advertise the construction contract. The design phase is complete and the County will submit certification for this milestone.

#### **Hot Water Piping System**

The design of this project was on hold pending the completion of a conflicting subsurface ductbank installation being performed by the Phase E3 Contractor. The next quarterly report will provide a new forecasted date. It is notable that this project is to provide a permanent hot water piping system, which has no bearing on the treatment levels, permit compliance or plant capacity. An interim hot water piping system was previously installed under the Program, completed in August 2016 and will continue to be utilized until the permanent hot water piping system is constructed.

**Progress This Quarter:**

The preliminary design was completed in this quarter.

**Expected Progress Next Quarter:**

With the preliminary design as the basis for the Request for Proposals, the County will initiate the procurement process to secure the services of the Final Design Engineer who will produce the bid documents for this construction project. Upon advertisement of the design contract, a modification request will be submitted to the Office of General Counsel.

### **East Avenue Ejector Station**

#### **Progress This Quarter:**

The design phase was completed this quarter, 22 days beyond the milestone date and certification of completion will be submitted.

#### **Expected Progress Next Quarter:**

The County will initiate procurement of a construction manager for this project and advertise the construction contract. The design phase is complete and the County will submit certification for this milestone.

## III.0

## Construction Milestone Status

The following tables list the construction milestones and statuses for Appendices A and C of the Agreement.

**Table 2 – Construction NTP Milestones**

<b>Milestone</b>	<b>Agreement Date</b>	<b>Actual/Forecast</b>
Raw sewage pumping facility	12/3/2018	12/3/2018
Effluent Screening and disinfection	8/21/2018	12/5/2018
Secondary Flood Protection	6/5/2018	TBD
Hot water piping system	5/25/2019	TBD
East Avenue Ejector Station	8/19/2018	3/16/2019
Sidestream Deammonification	6/12/2018	8/13/2018

**Table 3 – Construction Completion Milestones**

<b>Milestone</b>	<b>Agreement Date</b>	<b>Actual/Forecast</b>	<b>% Complete</b>
Barnes Avenue – Baldwin	12/31/2019	9/10/2018	70
Raw sewage pumping facility	12/1/2020	12/1/2020	0
Sludge dewatering facilities	12/15/2018	8/8/2018	82
Effluent Screening and disinfection	7/29/2020	12/5/2021	0
Effluent tide pumping facilities	5/28/2020	5/11/2020	9
Electrical Distribution Phase E1-E3	9/21/2019	5/3/2019	86
Secondary Flood Protection	6/3/2020	TBD	0
Stormwater Pump Stations	3/31/2018	3/31/2019	57
Upgrade to 3 Generator Operation	11/30/2018	12/27/2018	27
Hot water piping system	11/17/2020	TBD	0
Cedar Dr, Roosevelt et al PS	5/8/2018	1/12/2018	100
Wantagh, Newbridge et al PS	4/25/2018	2/12/2018	100
Ocean Ave, Mill Rd et al PS	12/5/2018	9/4/2018	90
Inwood, Doughty et al PS	7/4/2019	3/18/2019	35
Lawrence & Sage Lake PS	8/30/2018	7/10/2018	82
East Avenue Ejector Station	12/28/2019	3/16/2021	0
Level 1 BNR	4/8/2020	7/1/2020	11
Sidestream Deammonification	9/25/2020	8/12/2021	0

## **Project Notes:**

### **Barnes Avenue – Baldwin**

This project is nearing completion and is anticipated to be at substantial completion in Q3 2018, ahead of the milestone date.

#### **Progress This Quarter:**

##### **Contract #S3P311-09G Hempstead Wastewater Pumping:**

- Installed new flowmeters, dresser couplings & pressure gauges at NCPS.
- Removed & replaced light fixtures & conduit at NCPS.
- Installed new video chart recorders at NCPS.
- Installed conduit & wiring for gas detection & fire alarm system at NCPS.
- Conducted pressure test on new bypass line installed at NCPS.
- Installed submersible waste water pumps in Wet Wells No. 1 & 2 at HPS.
- Conducted pressure test for 12” DIP between the Wet Wells & the Control Building valve chamber at HPS.
- Continued installation of electric conduit & wiring for Control Building & Generator Building equipment at HPS.
- Installed exit signs & exterior receptacles for the Control Building & Generator Building at HPS.
- Excavated & installed the second (south) drywell at HPS.
- Installed pre-engineered aluminum stairs in the Control Building at HPS.
- Installed aluminum fascia for the Control Building & Generator Building roof edge at HPS.
- Continued installation of exterior cladding with metal wall panels for the Control Building & Generator Building at HPS.
- Established temporary power for existing Hempstead Pump Station.
- Established permanent power for new Hempstead Pump Station.
- Started installation of trolley beam & hoist at NCPS.
- Installed Generator Building & Control Building doors at HPS.
- Installed Generator Building & Control Building gutters & downspouts at HPS.
- Installed conduit, wiring & disconnect switches from Wet Well pumps to Control Building Panel CP-1 at HPS.
- Installed interior lights for wet wells Nos. 1 & 2 at HPS.
- Installed lightning protection system for Generator Building & Control Building at HPS.
- Installed access ladder into lower level of Control Building at HPS.
- Painted walls, process pipes & manifolds in Control Building at HPS.
- Completed fire alarm system, annunciator & gas detection system at NCPS.
- VFD installation work at NCPS.



**Contract #S3P311-09S Hempstead Wastewater Force Main:**

- Excavated for dewatering system at the Meadowbrook Pkwy site.
- Began installation of dewatering system at the Meadowbrook Pkwy site.
- Surveyed & saw-cut roadway on Front St. from Ingraham Blvd. to Richardson Pl. for the 30" FM.
- Surveyed & saw-cut roadway on Front St. from Clinton St. to Washington St. for the 14" FM.
- Surveyed & saw-cut roadway on Jerusalem Ave. from Ingraham Blvd. to the manhole on Searing St. for the 30" FM.
- Surveyed & saw-cut roadway on Jerusalem Ave. from Florence Ave. to Hawthorne Ave. for the 30" FM.
- Installation of 30" DIP at the Jerusalem Ave. & Ingraham Blvd. intersection.
- Installation of 30" DIP at the Front St. & Ingraham Blvd. intersection.
- Installation of 30" DIP along Jerusalem Avenue (A) from Paff Ave. to Meadowbrook Rd. (Sta. 92+00 to 104+00) & (B) from Uniondale Ave. to Clare Rd. (Sta. 117+00 to 125+00).
- Installed Manhole SAR-02 on Jerusalem Ave. between Leonard Ave. & Clinton Ave. (Sta. 98+10).

**Expected Progress Next Quarter:****Contract #S3P311-09G Hempstead Wastewater Pumping Station:**

- SCADA programming work at HPS.
- Installation of lavatory & partitions for lavatory in Control Building at HPS.
- Install wall hydrant on Control Building exterior at HPS.
- Connect 6" PVC leaders to Drywells from Generator Building & Control Building at HPS.
- Relocate gas detectors & associated wiring at NCPS.
- Install 24V Surge Protection for gas detection panel at NCPS.
- modify existing control panel for newly installed VFDs at NCPS.

**Contract #S3P311-09S Hempstead Wastewater Force Main:**

- Installation of 14" DIP along Front St. from South Franklin St. to Main St. (Sta. 5+00 to 12+00).
- Install Manhole SDA-05 on Jerusalem Ave. between Northgate Dr. & Meadowbrook Pkwy (Sta. 166+15).
- Install Permanent Base & Binder & Temporary Top Course Asphalt along South Franklin St. from Newmans Ct. to Front St. (Sta. 0+00 to 3+60).
- Installation of 30" DIP along Jerusalem Avenue (A) from Union Dr. to Northgate Dr. (Sta. 146+50 to 163+25), (B) from Meadowbrook Pkwy (west side) to Northgate Dr.

(Sta. 168+60 to 163+25) & (C) from Meadowbrook Pkwy (east side) to West Dr. (Sta. 175+75 to 177+10).

- Install Permanent Base & Binder & Temporary Top Course Asphalt along Front St. from South Franklin St. to Clinton St. (Sta. 5+00 to Sta. 24+80).
- Install Permanent Base & Binder & Temporary Top Course Asphalt along Jerusalem Ave. (A) from Ingraham Blvd. to Lewis Pl. (Sta. 70+00 to 73+22), (B) from Nostrand Ave. to Northgate Dr. (Sta. 139+00 to 163+25) & (C) from Northgate Dr. to Meadowbrook Pkwy west entrance (Sta. 163+25 to 168+25).

### **Raw Sewage Pumping Facility**

#### Progress This Quarter:

None this quarter. A sequencing conflict with underground ductbank work under Phase E3 has delayed the advertisement of this construction contract.

#### Expected Progress Next Quarter:

The design engineer will be given direction to update the completed design documents in preparation for advertisement in Q3 2018. The procurement process will be initiated to retain the services of a construction manager. The forecast for this milestone will be updated in the next quarterly report.

### **Sludge Dewatering Facilities**

This project is nearing completion and is anticipated to be at substantial completion in Q3 2018, ahead of the milestone date.

#### Progress This Quarter:

- Installation of Stonehard floor topping system.
- Installation of HWS/R & CHWS/R Piping, and associated insulations.
- Installation of Sludge, Service Water, PVC Polymer and effluent Piping.
- Power, lighting, fire alarm, and control conduit installations.
- Compressed air system piping and started compressed air system installation for the live bottom hoppers.
- HVAC duct & plenum installation.
- Fire suppression system installation.
- Electric feeder installation through Manholes 31 & 31A.
- Installed fiber optic and fire alarm communication cables from dewatering building to digested sludge control building.
- Painting.
- Framing and GWB assemblies.
- Digested sludge transfer pump replacement.
- Pre-testing of the washwater booster pump system.
- Testing of centrifuge #3 and 4

#### Expected Progress Next Quarter:

- Installation of piping insulation.
- Installation of chemical Piping.

- Power, lighting, fire alarm, and control conduit installations.
- HVAC duct installations.
- Fire suppression system installation.
- Painting.
- Stonehard flooring installations.
- Installation and testing of digested sludge transfer pumps and grinders.
- Installation and testing of sludge transfer pumps.
- Installation and testing of Odor Control System.
- installation and testing of Conveyor Systems.
- installation and testing of Polymer blending units.
- Centrifuges testing.

### **Effluent Screening and Disinfection**

#### Progress This Quarter:

The design phase was completed this quarter.

#### Expected Progress Next Quarter

The County will prepare the bid documents for advertisement. The County has encountered delays in procuring a construction manager for this project due to objections from a third party, CSEA Local 830. Per the DEC response to the initial submission of this report, a modification request will be submitted to the Office of General Counsel.

### **Effluent Tide Pumping Facilities**

This project is on schedule to complete ahead of the milestone date, however less than three weeks float remain. Significant delays have been incurred during initial construction of the facility due to unanticipated subsurface conditions which have required a redesign of the pile foundation system.

#### Progress This Quarter:

- Survey of the worksite to verify coordinates needed for the implantation of the New Electrical Room Annex Building.
- Test pits and found debris field with concrete, asphalt and timber.
- Demolition of miscellaneous HVAC equipment and dewatering pump.

#### Expected Progress Next Quarter

- Remove unsuitable material, installed blue stone and filter fabric under four electrical manholes.
- Place concrete ductbank.

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

Phases E1 and E2 were completed 10/19/2016 and 9/29/2017, respectively. Phase E3 is currently projected to complete ahead of the milestone. The later portions of Phase E3 are related to site lighting and do not impact treatment levels or plant capacity.

#### Progress This Quarter:

- Installation of railings (first floor) and fiberglass grating (second floor), main substation (MSS).
- Installation of interior sidings and windows, miscellaneous plumbing, piping insulation and HVAC system, fire protection systems including fire stopping, conduits and electrical boxes at MSS.
- Installation of Rooftop, CRAC units and Unit Heaters, MSS.
- Installation of Emergency Generators (including stacks), and Cast Coil Transformer, MSS.
- Installation of Switchgear wiring, MSS.
- Installation of MSS building wiring
- Installation of MCC, MSS.
- Installation of Substation electrical conduits, electric panels, and Pull boxes at MSS.
- Turnover of spare parts for various systems.
- Installation of Fuel Oil Piping system on the roof, MSS.
- Switchgear Test, MSS.
- Installation of USS1 to MCC cables, Grid 12.
- Installation of PSEG LI service, Grid 8.
- Installation of Utility Service and Substation Transformers, MSS.

#### Expected Progress Next Quarter:

- Installation of sunshade supports, vertical and horizontal blades, MSS.
- Installation of Elevator, MSS.
- Installation and painting of Fuel Oil system piping at 2nd floor except for MOVs, MSS.
- Painting of drip trays, installation of door frames MSS.
- Installation of ceramic wall tile in restrooms and breakroom, MSS.
- Installation of Canopy Mock-up, began installation of Canopy framing, MSS.
- Installation of Substation electrical and fire alarm wiring, conduits, panels, and pull boxes at MSS.
- Switchgear and cable testing, MSS.
- Installation of Mimic Panels and 5KV and 600V Bus Duct MSS.
- Installation of communication and signal conduits, Generator Building.
- Installation of Medium Voltage main distribution cables, various locations.
- Installation of cables from USS1 to Main Building MCCs, grid 12

#### **Secondary Flood Protection**

##### Progress This Quarter:

The County held a pre-award conference with the low bidder and is progressing towards the award and NTP.

##### Expected Progress Next Quarter:

This project is expected to be awarded and NTP will be issued upon final procurement of a Construction Management consultant. As noted in previous, the County has encountered delays in procuring a construction manager for this project due to objections from a third party, CSEA Local 830. Per the DEC response to the initial submission of this report, a modification request will be submitted to the Office of General Counsel.

### **Stormwater Pump Stations**

At the time of the signing of the Agreement, the projected completion date for this project was November 1, 2018, beyond the milestone date of March 31, 2018. The County believes this was an error and request that the date be revised to March 31, 2019. The program schedule issued in December 2017 is attached for reference (Attachment 1). Per the DEC response to the initial submission of this report, a modification request will be submitted to the Office of General Counsel.

#### **Progress This Quarter:**

- Delivery of Pump Station Main Submersible Pumps and Sump Pumps.
- Dismantle and Remove the South Interim Pumping System.
- North Pump Station Top Slab Concrete Arch, including installation of Hatches, Gratings, Placing Rebar and Concrete.
- Excavation for the South Pump Station and Pile Cut-off.
- South Pump Station's wet well excavation to final grade.
- Pile cut-off in South Pump Station's wet well.
- Installation and testing of the underground force main piping at North Pump Station.
- Concrete formwork from the North Pump Station's top slab arch.
- Placed the RCP Connections to North Pump Station's diversion chamber.
- North MCC sump pumps and piping.
- Knife valves and air release valve installed in North Pump Station valve chamber.
- Flood Doors installed on North MCC.
- Dismantled North Pump Station's groundwater dewatering system.

#### **Expected Progress Next Quarter:**

- Electric manholes and duct banks at north work area.
- Electrical conduits and fittings at the North MCC Building.
- Installation of MCC sections in the North MCC Building.
- Installation of reinforcing steel and concrete placement for the South Pump Station wet well and chambers.
- Installation of underground 36" force main at the South Pump Station.
- Relocated and reconnected the South Interim Pumping System.

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

There have been delays to this project and it is currently projected to be complete one month beyond the milestone date. A recovery plan is being implemented and an update will be provided in the next quarterly report.

#### **Progress This Quarter:**

- Submittals reviewed and approved, subcontractor/vendor approvals and RFI's responded to.

#### **Expected Progress Next Quarter:**

- Installation of TCL and ECL piping and hangers and supports.
- Installation of electrical conduits.
- Core drilling slabs at various locations for routing of conduits.

- Delivery of new Starting Air and Service Air Compressors.
- Demo existing Starting Air Compressor No. 1.
- Demo existing Starting Air Compressor equipment pad No. 1.
- FRP new Starting Air Compressor equipment pad No. 1.
- Set new Starting Air Compressor No. 1 on pad.
- Begin piping of Starting Air Compressor No. 1.
- Modifications to existing piping and light fixtures for new pipe installation.

### **Hot Water Piping System**

Not yet in the construction phase. As noted in Section II, a sequencing conflict with Phase E3 has delayed the final design and thus the advertisement of this construction contract. A modification request will be submitted to the Office of General Counsel upon commencement of the design phase.

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

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

### **Wantagh, Newbridge, Merrick & Ray St Pump Stations**

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

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

This project is on schedule to meet the milestone.

#### **Progress This Quarter:**

- Progressed submersible pump installations at Longacre and Ocean Ave. P.S. (Yellow and Blue Tag testing complete. Five (5) day testing remains to be completed).
- Progressed sump pump installations at all pump stations.
- Installed knife gate valve at Woodmere Blvd. P.S.
- Progressed painting at all pump stations.
- Installed louver gratings at all pump stations.
- Progressed installation of emergency lights at all pump stations.
- Progressed electrical platform at Woodmere P.S.
- Installation of main sewage pumps at Woodmere P.S. and Mill P.S.
- Misc. work at Woodmere P.S. (Beam installation at Fuel Oil Vault, roof fascia/gutter replacement).

#### **Expected Progress Next Quarter:**

- Installation of gas detection systems at all pump stations.
- Installation of leak/level detection system installations at all pump stations.
- Misc. work (preliminary punch list work, completed training for gas detection systems).
- Installation of new diesel generator installation at Woodmere Blvd. P.S.

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

This project is on schedule to meet the milestone.

**Progress This Quarter:**

- Hydraulic grinder installation at Inwood/Bayview/Roslyn Pump Stations (stainless steel piping, conduit and wire for control panel, Yellow/Blue Tag testing for Inwood and Bayview Pump Stations scheduled for the week of 1/29/18).
- Field measurements and survey at all Pump Stations.
- Demolition work for MSP No. 2 and odor control system at Inwood Pump Stations.
- Platform structural frame for Doughty Blvd. P.S.
- Underground valve replacement at Doughty Blvd. P. S.
- Unit Heater installation at Inwood P.S.

**Expected Progress Next Quarter:**

- Installation of pump and electrical work for the new submersible pumps at Doughty Blvd. P.S.
- Installation of platform installation at Doughty Blvd. P.S.
- Repair grinder at Roslyn Rd. P.S. on 5/2/18.
- Setup bypass pumping at Inwood Pump Station.
- Misc. Work (Inwood: Louvers, flood door installed, installed unit heaters; Bayview/Roslyn: Railing installation).

**Lawrence and Sage Lake Pump Stations**

This project is on schedule to meet the milestone.

**Progress This Quarter:****Lawrence P.S.**

- Provided training for Grinder System.
- Panel relocation and service wiring in MCC Room.
- Installation of Hydraulic Grinder System.
- Generator platform installation.
- Installed interior and exterior flood doors in Pump Station Building.
- Installed Backwater Check Valves and vent piping.
- Installed duplex sump pumps.
- Performed flood doors water leak test and door adjustment.
- Installed light fixtures in Wet Well.
- Installation of gas detection system

**Sage Lake P.S.**

- Maintenance of by-pass operation.
- Main sewage pump installation.
- Installed 4" gate valves and DIP piping for main sewage pump installation.
- Installed generator platform and concrete slab.
- Installation of electrical equipment on platform.
- Connection of new 4" force main - HDPE/ DIP.
- Installed new emergency generator on platform.
- Conduit routing and wiring.
- Pressure test for the 4" DIP and HDPE force main.

- Main Sewage Pump (MSP) #1 start-up.

#### Expected Progress Next Quarter:

##### Lawrence P.S.

- LRN panel installation.
- Grounding loop installation.
- Power distribution system coordination study.
- Installation of conduit routing and wiring.
- Installation of air monitoring and gas detection system.
- Routing conduit for fire alarm system.
- SCADA terminal box.
- Provide Sump Pump training.

##### Sage Lake P.S.

- Dry Well Top Slab concrete and Hatch installation.
- Installation of concrete duct banks.
- Pull cables and wiring from distribution panel to Dry Well.
- Provide Generator training.
- Air Monitoring and Gas Detection System installation.
- Conduit routing and wiring.
- Continue core drilling in wet well for gas sensor and float switch installation.
- Installation of light fixtures and receptacles.
- Electric Unit Heater installation.

#### **East Avenue Ejector Station**

Not yet in the construction phase. The County has encountered delays in procuring a construction manager for this project due to objections from a third party, CSEA Local 830. The County is working through the issue and per the DEC response to the initial submission of this report, a modification request will be submitted to the Office of General Counsel.

#### **Level 1 BNR**

This project has encountered delays relating to electrical power for the mixers in the first aeration tanks to be retrofitted. As a result, the current forecast is nearly three months beyond the milestone date. A change order is being initiated to provide temporary power which will mitigate some of this delay. Unforeseen corrosion damage has also been encountered upon draining the RAS boxes and subsurface leaks in the air piping have also been uncovered. Potential schedule impacts from these conditions have not yet been quantified. An update will be provided in the next quarterly report.

##### Progress This Quarter:

- Demolition of the existing electrical and HVAC equipment in the Aeration Building No.2.
- Demolition of plumbing fixture.
- Setting up the staging area on the North side of Aeration Tanks.
- Install conduit supports from Aeration Tank to Substation No.2.



- Clean and prep the tank cover panel and the passage before draining Aeration Tank No.5.
- Installation of chlorine line in Pipe Gallery.

Expected Progress Next Quarter:

- Installation of wood baffle and FRP baffle in Final Settling Tank No.9 and No.10.
- Clean Final Settling Tank No.7 and No.8.
- Installation of wood baffle in Final Tank No.7.
- Concrete repair work In Aeration Tank No.5.
- Installation of MIC Coating in Aeration Tank No.5.
- Installation of pipe hangers in the pipe gallery.
- Installation of conduit supports from Aeration Building to Substation No.2.

**Sidestream Deammonification**

Not yet in the construction phase. The award of this project has been delayed due to concerns over the low-bid contractor's ability to perform the work. Rather than reject the contractor and incur further delays in re-bidding, DPW has worked with the contractor and provided additional time to provide the requisite information to alleviate DPW's concerns. Delays have also been encountered in the award of the construction management contract for this project due to objections from CSEA Local 830. Per the DEC response to the initial submission of this report, a modification request will be submitted to the Office of General Counsel.

## 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.

Until recently, the City of Long Beach had been slow to respond to requests for information necessary to analyze the financial impact of the possible consolidation the County and City sewer systems.

On June 27, 2018, the NYS Financial Restructuring Board (“FRB”) invited the County to participate in a meeting between FRB staff and officials from the City of Long Beach. During this meeting, sewer consolidation was one of the topics raised as a shared service and cost savings initiative for the City. The County’s representative, Christopher Nolan, noted that the County has been exploring the impacts of a possible consolidation of the systems and has been working with DEC to identify funding opportunities to offset the negative impact to the County’s finances.

As a result of this meeting, the County has begun to receive information from the City. Additionally, the County will continue to explore acquisition financing through EFC and grant funding opportunities at the state and federal level.

V.0

## Nitrogen Interim Limit Schedule of Compliance

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

**Table 4 – 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:

<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:

Based on the Cooperative Agreement whereby the Diversion Project would proceed as a Design Build delivery system, the County initiated the production of a Request for Proposals to procure a preliminary design engineer who will produce the Design Criteria Package that will be used for the State's procurement of a Design Builder.

### Expected Progress Next Quarter:

The County will advertise the RFP and receive proposals.

### Project Milestones:

Per section III.A.3 of the Consent Agreement, the Diversion Report is due within 180 days of DEC's determination of a violation. This has not occurred. Further, the content requested in the report will not be available until the preliminary design has been completed. Additionally, the slip lining of the aqueduct will not be completed by the specified date. The slip lining is integral to the design of the system as a whole and will be designed and executed concurrently with the rest of the project. A letter will be issued to the Office of General Counsel requesting these dates be amended.

## VII.0

# Environmental Benefit Projects

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Per section IV.B.3 of the Agreement, the Project Schedule for Environmental Benefit Project-Kayak launch at Cedar Creek Park is provided below.

1. Meet with shareholders of the project to finalize scope - mid September
2. Finalize RFP - end of September
3. Advertise RFP - Mid October to mid November
4. TRC makes selection - End of November
5. RD/ROA approved - Mid December
6. Package approved by Admin in ECRS - end of December
7. Legislative Rules Calendar - January
8. Comptroller and NIFA approval of Contract - Mid February
9. Issue NTP for Study/Design - Mid February
10. Design Term 9 to 12 months

(The design term is lengthy due to multiple permits to be applied for and received during design so the permit conditions may be incorporated into the design specifications for the construction contract.)

Attachment 3 contains pictures of the proposed launch options.

## VIII.0

## Certification of Completed Activities

The following table lists the activities for which certification of compliance are to be submitted.

**Table 4 – Completed Activities**

Milestone	Date Completed	Certification Submitted
Effluent Screening and Disinfection - Design Completion	1/5/2018	7/5/18
East Avenue Ejector Station - Design Completion	3/2/2018	7/5/18
Cedar Dr, Roosevelt et al PS - Construction Completion	1/12/2018	7/5/18
Wantagh, Newbridge et al PS – Construction Completion	2/12/2018	7/5/18

## IX.0

## Community Relations

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In the first quarter of 2018, an informational public meeting was held on March 27th at the Bay Park Civic Association building, hosted by the County. Suez and the County's Program Manager, Hazen Arcadis JV, were also present along with elective representatives from the NY Congressional District. Like previous meetings, the County provides a status report of all current and planned projects to the public. During and after the presentation, questions from the residents are addressed. The residents have the contact information of the County and JV staff as well as the hotline numbers for any follow-up concerns. Items not clearly addressed during the meeting were either addressed the next day or will be in the subsequent meeting depending on the level of impact to the community. Due to the summer schedule of the community and the fact that the residents voiced their satisfaction of the work that the County is doing, no immediate dates were set for the next meeting. However, the County is in frequent contact with the Civic Association representative and can address any request as needed.

Minutes from the March 27th meeting are attached for more details (Attachment 2). Below are points of contact for reference.

### Main Point of Contacts:

- County – Vinny Falkowski, Mary Studdert, mstuddert@nassaucountyny.gov to contact representative
- JV – Rachel Faseler, Rachel.Faseler@arcadis.com
- Civic Association – Trisha Kearney, Trisha.Kearney@networkbrokers.com, (516) 596-1634
- Communication Rep – Michael Martino (previously with the County, then Suez)

### Usually present at the meetings/ Bay Park tour:

- Representative for NY Congressional District
- Deputy County Executive
- DPW Commissioner
- Representative from Suez
- JV representatives
- As needed – Parks, PSE&G

### Community Notification/ Informational sources:

- Bay Park's website: <https://bayparknc.com/about>
- Robo-calls for upcoming meetings (done through the County)
- Suez's hotline
- County's hotline Content

X.0

## Attachments

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1. Program Schedule, December 1, 2017.
2. Community Meeting Minutes.
3. Environmental Benefit Project Cedar Creek Kayak Launch Catalog Cuts



# ATTACHMENT 1

Bay Park Master Schedule 171130			Master Schedule				05-Dec-17 14:57											
Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022			
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q			
<b>Bay Park Master Schedule 171130</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 Generators	0	0		18-Nov-14 A	100													
Construction - Generator Controls	533	0	15-Nov-13 A	24-Jun-16 A	100													
<b>S3B120-01G - Influent Screening Facility Improvements</b>																		
<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													

Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
<b>Hurricane Sandy Projects</b>															
<b>FEMA Approval Process</b>															
FEMA 404 Grants	60	0	12-Aug-13 A	31-Oct-13 A	100										
FEMA Finalize Damage Scope and Cost	45	0	12-Aug-13 A	19-Dec-13 A	100										
Submit 406 HMP	45	0	12-Aug-13 A	19-Dec-13 A	100										
FEMA 406 HMP Negotiation	90	0	06-Jan-14 A	15-Jan-14 A	100										
FEMA Scope and Cost Negotiation	90	0	20-Dec-13 A	15-Jan-14 A	100										
<b>S35121-01G/E - Final Settling Tank Rehabilitation</b>															
<b>Construction Contract</b>															
Award / NTP - Final Tank Rehabilitation	64	0	21-Aug-13 A	23-Oct-13 A	100										
Construction - Final Tank Rehabilitation	730	0	28-Oct-13 A	13-May-16 A	100										
<b>CM Contract</b>															
RFP / Advertise CM Services - Final Tank Rehabilitation	30	0	21-Aug-13 A	09-Sep-13 A	100										
Award / NTP CM Services - Final Tank Rehabilitation	30	0	10-Sep-13 A	10-Feb-14 A	100										
<b>S35121-03G - Raw Sewage Pumping Facility</b>															
<b>CM Contract</b>															
RFP / Advertise CM Services - Raw Sewage Pumping Facility	29	29	06-Apr-18	04-May-18	0										
Award / NTP CM Services - Raw Sewage Pumping Facility	90	90	05-May-18	02-Aug-18	0										
<b>Design Process</b>															
Finalize Technical Memorandum - Influent Screens & RPS	45	0	21-Apr-14 A	30-Jun-14 A	100										
Preliminary Design - Raw Sewage Pumping Facility	88	0	01-Jul-14 A	23-Feb-15 A	100										
RFP / Advertise Final Design - Raw Sewage Pumping Facility	29	0	27-Feb-15 A	27-Mar-15 A	100										
Award / NTP Final Design - Raw Sewage Pumping Facility	90	0	30-Mar-15 A	01-Mar-16 A	100										
Final Design - Raw Sewage Pumping Facility	210	0	01-Mar-16 A	26-Sep-16 A	100										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Raw Sewage Pumping Facility	7	7	27-Apr-18	03-May-18*	0										
Bid / Advertise - Raw Sewage Pumping Facility	29	29	04-May-18	01-Jun-18	0										
Bid Opening - Raw Sewage Pumping Facility	1	1	05-Jun-18	05-Jun-18	0										
Award / NTP - Raw Sewage Pumping Facility	90	90	06-Jun-18	03-Sep-18	0										
Construction - Raw Sewage Pumping Facility	730	730	03-Sep-18	01-Sep-20*	0										
<b>S35121-09G - Sludge Dewatering</b>															
<b>CM Contract</b>															
RFP / Advertise CM Services - Dewatering Demo & Improvement	22	0	04-Apr-14 A	25-Apr-14 A	100										
Award / NTP CM Services - Dewatering Demo & Improvement	90	0	29-Apr-14 A	22-Sep-14 A	100										
<b>Design Process</b>															
Finalize Technical Memorandum - Dewatering	45	0	12-Aug-13 A	22-Nov-13 A	100										
Preliminary Design - Dewatering	85	0	26-Sep-13 A	31-Dec-13 A	100										
RFP / Advertise Final Design - Dewatering	16	0	10-Jan-14 A	07-Feb-14 A	100										
Award / NTP Final Design - Dewatering	80	0	08-Feb-14 A	07-Jul-14 A	100										
Final Design - Dewatering	200	0	07-Jul-14 A	03-Apr-15 A	100										
<b>Centrifuge Pilot Testing</b>															
Alfa Laval Centrifuge Pilot	5	0	02-Jun-14 A	11-Jun-14 A	100										
GEA Westfalia Centrifuge Pilot	5	0	23-Jun-14 A	27-Jun-14 A	100										
Andritz Centrifuge Pilot	5	0	07-Jul-14 A	11-Jul-14 A	100										
Flottweg Centrifuge Pilot	5	0	14-Jul-14 A	18-Jul-14 A	100										
Centrisys Centrifuge Pilot	5	0	21-Jul-14 A	25-Jul-14 A	100										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Dewatering	7	0	03-Apr-15 A	09-Apr-15 A	100										
Bid / Advertise - Dewatering	29	0	10-Apr-15 A	15-May-15 A	100										

█ 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
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	189	07-Dec-15 A	06-Jun-18*	79										
<b>S35121-09R - Sludge Dewatering Demolition</b>															
<b>Design Process</b>															
100% Design - Dewatering Demolition	89	0	02-Jan-14 A	31-Mar-14 A	100										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Dewatering Demolition	7	0	01-Apr-14 A	03-Apr-14 A	100										
Bid / Advertise - Dewatering Demolition	29	0	04-Apr-14 A	09-May-14 A	100										
Bid Opening - Dewatering Demolition	1	0	13-May-14 A	13-May-14 A	100										
Award / NTP - Dewatering Demolition	90	0	14-May-14 A	22-Sep-14 A	100										
Construction - Dewatering Demolition	180	0	22-Sep-14 A	20-Mar-15 A	100										
<b>S35121-11G - Effluent Screening &amp; Disinfection</b>															
<b>CM Contract</b>															
RFP / Advertise CM Services - Effluent Screening & Disinfection	29	29	26-Jan-18	23-Feb-18	0										
Award / NTP CM Services - Effluent Screening & Disinfection	90	90	24-Feb-18	24-May-18	0										
<b>Design Process</b>															
Finalize Technical Memorandum - Effluent Screening & Disinfection	45	0	15-Nov-13 A	13-Feb-14 A	100										
Prepare Design RFP - Effluent Screening & Disinfection	85	0	30-Dec-13 A	29-Jan-16 A	100										
RFP / Advertise Final Design - Effluent Screening & Disinfection	29	0	29-Jan-16 A	26-Feb-16 A	100										
Award / NTP Final Design - Effluent Screening & Disinfection	90	0	06-May-16 A	09-Jan-17 A	100										
Final Design - Effluent Screening & Disinfection	300	51	09-Jan-17 A	19-Jan-18	83										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Effluent Screening & Disinfection	7	7	20-Jan-18	26-Jan-18	0										
Bid / Advertise - Effluent Screening & Disinfection	29	29	26-Jan-18	23-Feb-18	0										
Bid Opening - Effluent Screening & Disinfection	1	1	27-Feb-18	27-Feb-18	0										
Award / NTP - Effluent Screening & Disinfection	90	90	28-Feb-18	28-May-18	0										
Construction - Effluent Screening & Disinfection	560	560	28-May-18	08-Dec-19*	0										
<b>S35121-12G - Effluent Tide Pumping Building</b>															
<b>CM Contract</b>															
RFP / Advertise CM Services - Effluent Tide PB	29	0	01-May-15 A	29-May-15 A	100										
Award / NTP CM Services - Effluent Tide PB	90	0	30-May-15 A	24-Aug-17 A	100										
<b>Design Process</b>															
Finalize Technical Memorandum - Effluent Tide PB	45	0	12-Aug-13 A	22-Nov-13 A	100										
Preliminary Design - Effluent Tide PB	85	0	26-Sep-13 A	27-Feb-14 A	100										
RFP / Advertise Final Design - Effluent Tide PB	30	0	28-Feb-14 A	28-Mar-14 A	100										
Award / NTP Final Design - Effluent Tide PB	90	0	31-Mar-14 A	08-Dec-14 A	100										
Final Design - Effluent Tide PB	210	0	08-Dec-14 A	07-Jul-15 A	100										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Effluent Tide PB	7	0	08-Jul-15 A	14-Jul-15 A	100										
Bid / Advertise - Effluent Tide PB	29	0	31-Jul-15 A	11-Sep-15 A	100										
Bid Opening - Effluent Tide PB	1	0	15-Sep-15 A	15-Sep-15 A	100										
Award / NTP - Effluent Tide PB	90	0	16-Sep-15 A	24-Aug-17 A	100										
Construction - Effluent Tide PB	820	722	24-Aug-17 A	21-Nov-19*	12										
<b>S35121-13E - Phase E1 Electrical Distribution Systems Improvements</b>															
<b>CM Contract</b>															
RFP / Advertise CM Services - Phase E1 EDS	30	0	02-Jan-14 A	24-Jan-14 A	100										
Award / NTP CM Services - Phase E1 EDS	90	0	25-Jan-14 A	07-Jul-14 A	100										

█ 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Design Process</b>															
Phase E1 Design	119	0	15-Aug-13 A	11-Dec-13 A	100	█									
Finalize Technical Memorandum - Phase 1 EDS	45	0	12-Aug-13 A	03-Jan-14 A	100	█									
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Phase E1 EDS	7	0	12-Dec-13 A	19-Dec-13 A	100	█									
Bid / Advertise - Phase E1 EDS	30	0	20-Dec-13 A	31-Jan-14 A	100	█									
Bid Opening - Phase E1 EDS	1	0	06-Feb-14 A	06-Feb-14 A	100	█									
Award / NTP - Phase E1 EDS	76	0	07-Feb-14 A	27-May-14 A	100	█									
Construction - Phase E1 EDS	670	0	27-May-14 A	19-Oct-16 A	100	█									
<b>S35121-14E - Phase E2 Unit Substation No. 2 &amp; Electrical Distribution</b>															
<b>Design Process</b>															
Phase E2 Design - EDS - USS No. 2	155	0	04-Apr-14 A	18-Aug-14 A	100	█									
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - EDS Phase E2 - USS No. 2	7	0	21-Aug-14 A	27-Aug-14 A	100	█									
Bid / Advertise - EDS Phase E2 - USS No. 2	29	0	29-Aug-14 A	10-Oct-14 A	100	█									
Bid Opening - EDS Phase E2 - USS No. 2	1	0	14-Oct-14 A	14-Oct-14 A	100	█									
Award / NTP - EDS Phase E2 - USS No. 2	90	0	15-Oct-14 A	11-May-15 A	100	█									
Construction - Phase E2 - USS No. 2	660	0	11-May-15 A	29-Sep-17 A	100	█									
<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	562	05-Oct-15 A	14-Jun-19*	49	█									
<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	20-Dec-18	17-Jan-19	0										
Award / NTP CM Services - Phase E4 Electrical Utility Connections	90	90	18-Jan-19	17-Apr-19	0										
<b>Design Process</b>															
Preliminary Design - Phase E4 Electrical Utility Connections	90	90	15-Dec-17*	14-Mar-18	0										
RFP / Advertise - Final Design - Phase E4 Electrical Utility Connections	29	29	15-Mar-18	12-Apr-18	0										
Award / NTP Final Design - Phase E4 Electrical Utility Connections	120	120	13-Apr-18	10-Aug-18	0										
Final Design - Phase E4 Electrical Utility Connections	180	180	10-Aug-18	05-Feb-19	0										
PSE&G Coordination	5	1114	12-Aug-13 A	17-Dec-20	0										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Phase E4 Electrical Utility Connections	7	7	06-Feb-19	12-Feb-19	0										
Bid / Advertise - Phase E4 Electrical Utility Connections	29	29	15-Feb-19	15-Mar-19	0										
Bid Opening - Phase E4 Electrical Utility Connections	1	1	19-Mar-19	19-Mar-19	0										
Award / NTP - Phase E4 Electrical Utility Connections	90	90	20-Mar-19	17-Jun-19	0										
PSEG Feeders Available	0	0		15-Sep-20	0										
Construction - Phase E4 Electrical Utility Connections	550	550	17-Jun-19	17-Dec-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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<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	217	05-Jul-17 A	04-Jul-18*	41										
<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	54	26-Aug-17 A	22-Jan-18	40										
<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	9	27-Oct-17 A	08-Dec-17	69										
Bid Opening - Secondary Flood Protection	1	1	12-Dec-17	12-Dec-17	0										
Award / NTP - Secondary Flood Protection	90	90	13-Dec-17	12-Mar-18	0										
Construction - Secondary Flood Protection	730	730	12-Mar-18	10-Mar-20*	0										
<b>S35121-16P - Heating Hot Water Piping Permanent System</b>															
<b>CM Contract</b>															
RFP / Advertise CM Services - Heating Hot Water Piping Permanent System	29	29	07-Jun-18	05-Jul-18	0										
Award / NTP CM Services - Heating Hot Water Piping Permanent System	90	90	06-Jul-18	03-Oct-18	0										
<b>Design Process</b>															
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	29	10-Jan-18*	07-Feb-18	0										
Award / NTP Final Design - Heating Hot Water Piping Permanent System	120	120	08-Feb-18	07-Jun-18	0										
Final Design - Heating Hot Water Piping Permanent System	135	135	07-Jun-18	19-Oct-18	0										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Hot/Chilled Water System Upgrades	7	7	20-Oct-18	26-Oct-18	0										
Bid / Advertise - Heating Hot Water Piping Permanent System	29	29	26-Oct-18	23-Nov-18	0										
Bid Opening - Heating Hot Water Piping Permanent System	1	1	27-Nov-18	27-Nov-18	0										
Award / NTP - Heating Hot Water Piping Permanent System	90	90	28-Nov-18	25-Feb-19	0										
Construction - Heating Hot Water Piping Permanent System	540	540	25-Feb-19	17-Aug-20*	0										
<b>S35121-16TR - Vehicle Fueling &amp; Tanks Reconstruction</b>															
<b>Design Process</b>															
Design - Vehicle Fueling	53	0	10-Mar-14 A	02-May-14 A	100										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Vehicle Fueling	7	0	02-May-14 A	08-May-14 A	100										
Bid / 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										

█ 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Award / NTP - Vehicle Fueling	90	0	29-Apr-15 A	12-Jun-16 A	100										
Construction - Vehicle Fueling	274	31	13-Jun-16 A	30-Dec-17*	89										
<b>S35121-16V - Dechlorination Vault Storm Mitigation</b>															
<b>Design Process</b>															
Design - Dechlor Sample Vault Hardening	180	0	27-Mar-15 A	22-Oct-15 A	100										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Dechlor Sample Vault Hardening	7	0	23-Oct-15 A	29-Oct-15 A	100										
Bid / 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										
<b>S35121-17G - Perimeter Flood Protection</b>															
<b>CM Contract</b>															
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										
<b>Design Process</b>															
Geotech Borings - Perimeter Flood Protection	85	0	12-Aug-13 A	17-Dec-13 A	100										
Permitting (EAS) - Perimeter Flood Protection	125	0	12-Aug-13 A	17-Dec-13 A	100										
Berm Design - Perimeter Flood Protection	83	0	26-Sep-13 A	17-Dec-13 A	100										
Finalize Technical Memorandum - Perimeter Flood Protection	45	0	12-Aug-13 A	17-Dec-13 A	100										
Public Review/Comment Period	30	0	17-Dec-13 A	16-Jan-14 A	100										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Perimeter Flood Protection	7	0	17-Jan-14 A	23-Jan-14 A	100										
Bid / 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										
<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	337	31-May-16 A	01-Nov-18*	56										
<b>S35121-18S - Flood Protection Phase 2 Stormwater Green Infrastructure</b>															
<b>CM Contract</b>															
RFP / Advertise CM Services - Flood Protection Phase 2 Stormwater GI	29	29	04-Apr-19	02-May-19	0										
Award / NTP CM Services - Flood Protection Phase 2 Stormwater GI	90	90	03-May-19	31-Jul-19	0										
<b>Design Process</b>															
Preliminary Design - Flood Protection Phase 2 Stormwater GI	96	0	31-Jan-16 A	26-May-16 A	100										

█ Remaining Level of Effort    █ Actual Work  
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Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
RFP / Advertise - Final Design Flood Protection Phase 2 Stormwater GI	29	0	27-May-16 A	24-Jun-16 A	100										
Award / NTP Final Design - Flood Protection Phase 2 Stormwater GI	90	31	25-Jun-16 A	27-Sep-18	66										
Final Design - Flood Protection Phase 2 Stormwater GI	210	210	28-Sep-18	25-Apr-19	0										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Flood Protection Phase 2 Stormwater GI	7	7	26-Apr-19	02-May-19	0										
Bid / Advertise Flood Protection - Phase 2 Stormwater GI	29	29	03-May-19	31-May-19	0										
Bid Opening Flood Protection - Phase 2 Stormwater GI	1	1	04-Jun-19	04-Jun-19	0										
Award / NTP Flood Protection - Phase 2 Stormwater GI	90	90	05-Jun-19	02-Sep-19	0										
Construction - Flood Protection - Phase 2 Stormwater GI	365	365	02-Sep-19	31-Aug-20*	0										
<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	04-Apr-19	02-May-19	0										
Award / NTP CM Services - Misc Storm Repairs, Mitigation & Restoration	90	90	03-May-19	31-Jul-19	0										
<b>Design Process</b>															
Preliminary Design - Misc Storm Repairs, Mitigation & Site Restoration	90	90	02-Apr-18*	30-Jun-18	0										
RFP / Advertise - Final Design Misc Storm Repairs, Mitigation & Site Restoration	29	29	01-Jul-18	29-Jul-18	0										
Award / NTP Final Design - Misc Storm Repairs, Mitigation & Site Restoration	120	120	30-Jul-18	26-Nov-18	0										
Final Design - Misc Storm Repairs, Mitigation & Site Restoration	180	180	26-Nov-18	24-May-19	0										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Misc Storm Repairs, Mitigation & Site Restor.	7	7	24-May-19	30-May-19	0										
Bid / Advertise - Misc Storm Repairs, Mitigation & Site Restoration	29	29	31-May-19	28-Jun-19	0										
Bid Opening - Misc Storm Repairs, Mitigation & Site Restoration	1	1	02-Jul-19	02-Jul-19	0										
Award / NTP - Misc Storm Repairs, Mitigation & Site Restoration	90	90	03-Jul-19	30-Sep-19	0										
Construction - Misc Storm Repairs, Mitigation & Site Restoration	365	365	30-Sep-19	28-Sep-20*	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	06-Jun-19	04-Jul-19	0										
Award / NTP CM Services - Aeration Blower Facility	90	90	05-Jul-19	02-Oct-19	0										
<b>Design Process</b>															
Preliminary Design - Aeration Blower Facility	180	64	01-Nov-16 A	01-Feb-18	64										
Resolve Power Availability Issue for Aeration Blower Building	147	147	02-Feb-18	28-Jun-18	0										
RFP / Advertise - Final Design - Aeration Blower Facility	29	29	29-Jun-18	27-Jul-18	0										
Award / NTP Final Design - Aeration Blower Facility	120	120	28-Jul-18	24-Nov-18	0										
Final Design - Aeration Blower Facility	240	240	25-Nov-18	22-Jul-19	0										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Aeration Blower Facility	7	7	25-Jul-19	31-Jul-19	0										
Bid / Advertise - Aeration Blower Facility	29	29	02-Aug-19	30-Aug-19	0										
Bid Opening - Aeration Blower Facility	1	1	03-Sep-19	03-Sep-19	0										
Award / NTP - Aeration Blower Facility	90	90	04-Sep-19	02-Dec-19	0										
Construction - Aeration Blower Facility	1095	1095	02-Dec-19	30-Nov-22*	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
<b>S3P311 - Pump Stations</b>															
<b>S3P311-01G - Dock Place &amp; Southland Drive</b>															
<b>Construction</b>															
Construction - Dock Place & Southland Drive Pump Stations	240	0	28-Oct-13 A	31-Oct-14 A	100										
<b>S3P311-02G - Cedar, Roosevelt, Whitewood, Biltmore &amp; Alhambra</b>															
<b>Design Process</b>															
Finalize Technical Memorandum - Pump Station 2	140	0	12-Aug-13 A	22-Nov-13 A	100										
Preliminary Design - Pump Station 2	67	0	23-Nov-13 A	28-Jan-14 A	100										
RFP / Advertise Final Design - Pump Station 2	30	0	31-Jan-14 A	28-Feb-14 A	100										
Award / NTP Final Design - Pump Station 2	90	0	01-Mar-14 A	23-Sep-14 A	100										
Final Design - Pump Station 2	90	0	23-Sep-14 A	26-Mar-15 A	100										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Pump Station 2	7	0	27-Mar-15 A	09-Apr-15 A	100										
Bid / Advertise - Pump Station 2	29	0	10-Apr-15 A	08-May-15 A	100										
Bid Opening - Pump Station 2	1	0	12-May-15 A	12-May-15 A	100										
Award / NTP - Pump Station 2	90	0	13-May-15 A	03-Mar-16 A	100										
Construction - Pump Station 2	548	61	03-Mar-16 A	29-Jan-18*	89										
<b>S3P311-03G - Wantagh, Newbridge, Merrick &amp; Ray</b>															
<b>Design Process</b>															
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										
<b>Bid / Construction</b>															
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	65	03-Mar-16 A	02-Feb-18*	88										
<b>S3P311-02M - PS2 &amp; PS3 Construction Management</b>															
<b>CM Contract</b>															
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										
<b>S3P311-04G - Felix, Fox, Northern &amp; Grand</b>															
<b>Design Process</b>															
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										
<b>Bid / Construction</b>															
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										

█ 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
<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	280	15-Mar-17 A	05-Sep-18*	49										
<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	491	15-Mar-17 A	04-Apr-19*	9										
<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										

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Activity Name	Orig Dur	Rem Dur	Start	Finish	% Comp	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>S3P311-08G - East Avenue</b>															
<b>CM Contract</b>															
RFP / Advertise CM Services - East Avenue Pump Station	29	29	15-Dec-17	12-Jan-18	0										
Award / NTP CM Services - East Avenue Pump Station	90	90	13-Jan-18	12-Apr-18	0										
<b>Design Process</b>															
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	24	29-Mar-17 A	23-Dec-17	91										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - East Avenue Pump Station	7	7	27-Dec-17	02-Jan-18	0										
Bid / Advertise - East Avenue Pump Station	29	29	05-Jan-18	02-Feb-18	0										
Bid Opening - East Avenue Pump Station	1	1	06-Feb-18	06-Feb-18	0										
Award / NTP - East Avenue Pump Station	90	90	07-Feb-18	07-May-18	0										
Construction - East Avenue Pump Station	418	418	07-May-18	28-Jun-19*	0										
<b>S3P311-09G - Hempstead Wastewater Pumping Station</b>															
<b>Design Process</b>															
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										
<b>Bid / Construction</b>															
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	141	25-Apr-16 A	19-Apr-18*	69										
<b>S3P311-09S - Hempstead Wastewater Force Main</b>															
<b>Design Process</b>															
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										
<b>Bid / Construction</b>															
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	336	25-Apr-16 A	31-Oct-18*	25										
<b>S3P311-09M - Hempstead Wastewater Pumping Station &amp; Force Main CM</b>															
<b>CM Contract</b>															
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										
<b>S3P311-10G - Lawrence PS (STP) &amp; Sage Lake PS</b>															
<b>CM Contract</b>															
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										
<b>Design Process</b>															
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										

█ 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Final Design - Lawrence STP & Sage Lake PS	180	0	15-Sep-15 A	08-Mar-16 A	100										
<b>Bid / Construction</b>															
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	182	22-Mar-17 A	30-May-18*	67										
<b>S3P311-11G - Roslyn Village, Morgan Park &amp; Shore Road</b>															
<b>CM Contract</b>															
RFP / Advertise CM Services - Roslyn Village, Morgan Park & Shore Rd	29	29	30-Nov-17	28-Dec-17	0										
Award / NTP CM Services - Roslyn Village, Morgan Park & Shore Rd	90	90	29-Dec-17	28-Mar-18	0										
<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	9	10-Nov-17 A	08-Dec-17	69										
Bid Opening - Roslyn Village, Morgan Park & Shore Rd	1	1	12-Dec-17	12-Dec-17	0										
Award / NTP - Roslyn Village, Morgan Park & Shore Rd	90	90	13-Dec-17	12-Mar-18	0										
Construction - Roslyn Village, Morgan Park & Shore Rd	365	365	12-Mar-18	11-Mar-19*	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	30	24-Dec-16 A	29-Dec-17	67										
<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	30	11-Jan-17 A	29-Dec-17	67										
Construction - Cedar Point Lake PS	550	550	30-Dec-17	02-Jul-19*	0										
<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	24	26-Aug-17 A	23-Dec-17	73										
<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										

█ 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
						Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Bid / Advertise - Sidestream Centrate Treatment	29	16	17-Nov-17 A	15-Dec-17	45										
Bid Opening - Sidestream Centrate Treatment	1	1	19-Dec-17	19-Dec-17	0										
Award / NTP - Sidestream Centrate Treatment	90	90	20-Dec-17	19-Mar-18	0										
Construction - Sidestream Centrate Treatment	731	731	19-Mar-18	18-Mar-20*	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										
Bid Opening - Level 1 BNR Improvements	1	0	15-Nov-16 A	15-Nov-16 A	100										
Award / NTP - Level 1 BNR Improvements	90	0	16-Nov-16 A	05-Jul-17 A	100										
Construction - Level 1 BNR Improvements	913	765	05-Jul-17 A	03-Jan-20*	16										
<b>Long Beach WPCP Diversion</b>															
<b>S35109-01C - Long Beach Diversion</b>															
<b>CM Contract</b>															
RFP / Advertise CM Services - Long Beach Diversion	29	29	02-Jul-19	30-Jul-19	0										
Award / NTP CM Services - Long Beach Diversion	90	90	31-Jul-19	28-Oct-19	0										
<b>Design Process</b>															
Prepare RFP - Long Beach Conversion Design	30	10	31-Jan-16 A	09-Dec-17	67										
RFP / Advertise Final Design - Long Beach Diversion	29	29	01-Feb-18*	01-Mar-18	0										
Award / NTP Final Design - Long Beach Diversion	120	120	02-Mar-18	29-Jun-18	0										
Prepare Technical Design Report	100	100	30-Jun-18	07-Oct-18	0										
Final Design - Long Beach Diversion	255	255	09-Oct-18	20-Jun-19	0										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Long Beach Diversion	7	7	21-Jun-19	27-Jun-19	0										
Bid / Advertise - Long Beach Diversion	29	29	28-Jun-19	26-Jul-19	0										
Bid Opening - Long Beach Diversion	1	1	30-Jul-19	30-Jul-19	0										
Award / NTP - Long Beach Diversion	90	90	31-Jul-19	28-Oct-19	0										
Construction - Long Beach Diversion	510	510	29-Oct-19	21-Mar-21*	0										
<b>Austin Boulevard Force Main</b>															
<b>Design Process</b>															
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										
Final Design - Austin Boulevard Force Main	310	14	01-Jun-16 A	13-Dec-17	95										
<b>Bid / Construction</b>															
County Prepare Bid for Advertisement - Austin Boulevard Force Main	7	7	21-Jun-19	27-Jun-19	0										
Bid / Advertise - Austin Boulevard Force Main	29	29	02-Jul-19	30-Jul-19	0										
Bid Opening - Austin Boulevard Force Main	1	1	03-Aug-19	03-Aug-19	0										
Award / NTP - Austin Boulevard Force Main	90	90	04-Aug-19	01-Nov-19	0										
Construction - Austin Boulevard Force Main	240	240	02-Nov-19	28-Jun-20*	0										
<b>Milestones</b>															
Program Management Award	0	0	12-Aug-13 A		100										
Program Management Complete	0	0		30-Nov-22	0										

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





March 27, 2018 Community Meeting

Meeting began at 7:00PM, in the Bay Park Civic Association.

**Attendees to Note:** Kenneth Arnold, Vinny Falkowski, Brian Schneider, Robert Pedenzin, Mary Ann Dioquino, Fred T, Trisha Kearney. NC police officers were also present.

**JV/County Updates**

- Eternal flame/popping noise
  - Community members have not heard the “popping noise” recently. Work was previously done to fix the problem
  - Community Members will call Suez Hotline to report if they hear it in the future.
- Noise from construction vehicles
  - Community members raised concern that loud vehicles are idling outside of plant in early AM.
  - JV mentioned that guard are placed at the access gate 24/7 and that construction vehicles are brought directly into the plant.
  - County asked that if the residents see any vehicles not doing so to call the Suez hotline and take pictures if possible.
  - A resident mentioned about the yellow noise attenuator panel near the primary tank. JV will look into it.
- Drainage - Harbor Road and 1<sup>st</sup> Avenue
  - JV is following up on the plans to repave the road
  - JV is aware of the drainage issues that need correcting on 1<sup>st</sup> avenue
- Plant name change
  - Community asked that when there’s press releases about the plan and the area, the name of the plant is updated consistently.
  - County will continue to progress the name change and notify the Governor, DEC as requested by the resident, when applicable.
  - In some documents for legal reasons the name still cannot change. The PR person, Mike Martino, that is working on this isn’t available today to discuss.
- BNR
  - Concerns were raised by residents about the location and kids playing at the playground. Concerns were about the dust, noise and odor.
  - JV stated that like other projects, controls will be put in place to reduce negative impacts to the surrounding residents.
- Sidestream
  - Community asked about location and were told it will be southeast of the BNR project. Once completed, it is expected to blend in with the current facilities and won’t be taller or noticeable from the resident side.
- Diversion

- County asked that all questions and concerns be brought to the upcoming meeting specific to this project which is held by Legislature Ford and Mule. Since this is by the legislatures, not through the County or the storm recovery office, no blast notification was sent.
- County will send out a robo-call in advance for future meetings regarding this project.
- Generators/ Power
  - The residents asked what the new County administration stands for in regard to PSEG. K. Arnold mentioned that this administration is aware of the generators and generation on site, and feeder to PSEG situation. The County mentioned that they are in contact with Senator Schumer's office to intervene and get the PSEG situation moving faster. Furthermore, Senator Schumer is going to have a press conference, on 3/28.
  - Resident asked about the Aggreko units – where it is currently located. The JV mentioned that emergency power from the United Rental units now, not Aggrekos, and is not visible from outside.
- Maintenance of the Park and Plant
  - The residents praise the fact that the parks were done wonderfully. However, the maintenance or lack thereof is an issue. Specifically, the light is not working and there is rusting on the exhaust stack.
  - JV mentioned that the County previously contacted the manufacturer and the path light situation will be fixed.
  - JV is following up with Suez about the stacks that need cleaning and painting.
- Odor
  - The resident asked to understand how odor is monitored. Suez and the JV mentioned that with the odor monitoring control around the plant, the sensor from these units goes back to computer system. No one is looking at the screen constantly but if someone call, it let us identify where the odor issue is coming from. The program for this doesn't just monitor but it look at the wind and weather components as well. If a resident makes a complaint, the information from this system will allow us to see where the plume is. In general, if we get a call, immediate action is taken, a staff is send out and we will install an odor monitoring unit at your house and we will register the date and look at the information.
  - Suez asked residents to use hotline when they sense an odor issue
- Sludge Dewatering
  - The residents asked how the dewatering project is coming along. The JV and Suez mentioned that more than 80% is completed as of now. It is estimated that by July the temporary work will be done. The temporary tent is going to be move into the facility.
- Other non-plant/ Bay Park Program related topics:
  - Boat Ramp - B. Schneider mentioned that some of the residents are on the citizen advisory panel for Living with the Bays. He believe they will redo the boat ramp and make it into green infrastructure. Further to the south, GOSR plan seems to include installing a board walk where it will encourage the people to be near the water again and learn about the marshland. Education components tie to NYU and natural conservation efforts. There is an initiate with Living with the Bays to tie to the marshland. A definitive elevation and perspective to the board walk to build up into a berm. The plan for this will be unveil by GOSR. GOSR has a component

dedicated to cleaning up the area and the intent is to extend the walking path. The GOSR office asked the County to keep it low until the design is finalized. County expects the GOSR project to be fast tracked

- New facility on golf course - Community doesn't like the fact that the County is constructing a new facility on the golf course. They asked why it isn't near road maintenance. B. Schneider stated that the road maintenance is going to be relocated. This new facility, golf and road maintenance facility is to replace the one damaged in the plant. Brian S. said concerns will be brought back to the administration. The residents asked to see the plan and what will be stored within this new facility. K. Arnold mentioned that he will find out if it is for storage or other purposes.
- Enhancement of golf course. Resident asked if the GOSR plan to enhance the golf course. B. Schneider stated that no plan through GOSR but that there is a County capital project to install new sprinklers. County said a sprinkler system is expected to be complete in April.
- Use of parks. Residents asked about the restriction on the use of the leisure pass. Residents complaints that they can use the pass to access the parks except for the loading boat area. B. Schneider stated that there are certain things that require permit. He clarified that if you're a County's residents, just show your license, only need it for boat launching. The permit is for non-residents.
- Police officers where present to discuss larceny of auto and how to prevent it.

Action Items – Community Concerns and Comments

Issues	Contact/Responsible Party
<b>Eternal Flame</b>	Suez
<b>Noise from Construction Vehicles. And, visibility of a yellow noise attenuator panel near primary tanks.</b>	JV
<b>Drainage on Harbor Road</b>	JV and County
<b>Plant Name Change</b>	County/Suez
<b>BNR – noise, dust and odor into playground</b>	JV
<b>Diversion</b>	County
<b>Purpose of the new facility on golf course</b>	County
<b>Status of generators/PSE&amp;G</b>	JV/County
<b>Park &amp; Plant Maintenance – light and cleaning of stack</b>	Suez/JV
<b>Odor</b>	Suez

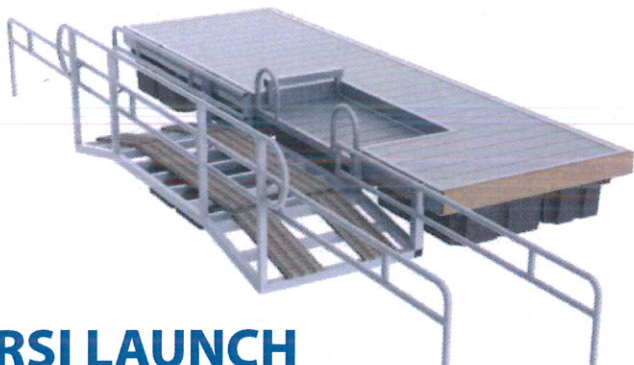
Meeting concluded at approximately 8:20 pm

Next meeting date will be in the summer, R. Faseler to coordinate with Bay Park Civic Association.

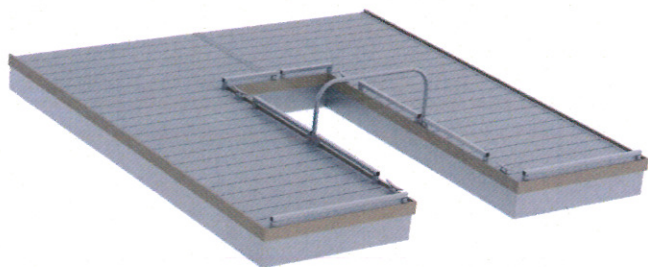
## EASY LAUNCH



## EXPRESS LAUNCH



## VERSI LAUNCH



GATORDOCK STANDARD LAUNCH SYSTEMS

### GATORDOCK EASY LAUNCH KAYAK SYSTEM

The easy launch kayak dock system provides a recessed dock section for reduced deck height during loading. The grab bars steady the passenger while the boat cradle positions the boat close for easy launch and retrieval. Add this kayak launch system to the end of a traditional boat ramp for a multipurpose dock.

### GATORDOCK EXPRESS LAUNCH KAYAK SYSTEM

The Express Launch Kayak dock system is a great option for high traffic areas. While one party launches their kayak or canoe at the recessed decking area, another party can begin process of placing their boat in the rail system. The rail system of the Express Launch not only provides additional support for the kayaker during launch and retrieval but also the elevated undercarriage of the express launch keeps the boat raised at the loading platform.

### GATORDOCK VERSI LAUNCH

The Versi Launch system is great for kayaks and canoes as well as a multitude of other small watercraft. This dock system has holding bays which keep the watercraft still during loading or storage. The Versi Launch can be enhanced with grab rail options, loading platforms accessories or ADA lift designs. If your project caters to multiple boat types as well as kayaks and canoes, the Versi Launch design may be right for you.

info@gatordock.com ■ 866.730.9199 ■ 770.933.8629



# KAYAK & CANOE LAUNCHES



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## LOW FREEBOARD

Gator's Full Float docks can achieve the lowest freeboard in the industry while still meeting load criteria for public launches. Low freeboard minimizes the distance between the dock deck and the water level making it easier to load and unload personal watercraft.



## CUSTOMIZED FOR YOU

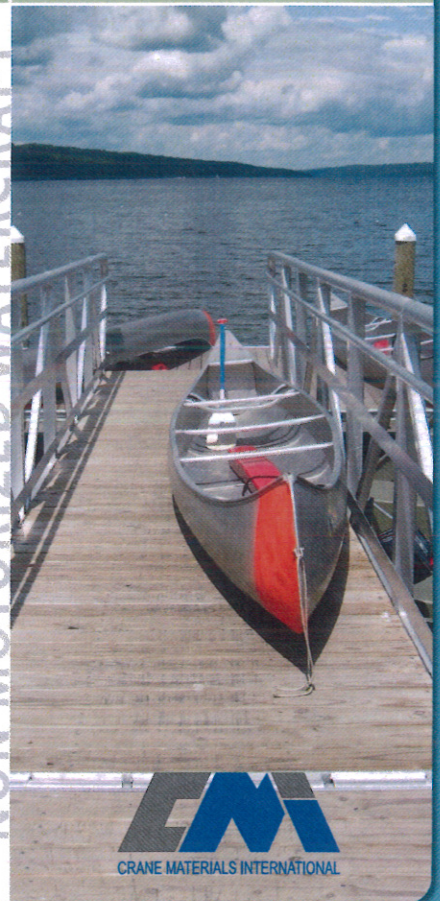
Think it is impossible to have a traditional boat ramp which is also a kayak launch? Need a custom dock for your specialized watercraft needs? Gator fabricates custom designs every day - Give us a call.



## ADA DESIGN & GRABRAILS

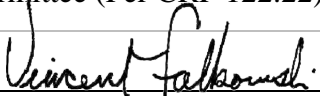
Gator not only incorporates grab rails which make loading and unloading easy, but can also design ADA compliant launches. Talk to Gator about making your launch accessible for all.

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Vincent Falkowski, PE, PMP, CCM		Deputy Commissioner
Permittee (Per CRF 122.22)		Title
		7/6/2018
Signature		Date Signed