July 6, 2018 (REVISED)

Joseph DiMura, P.E.
Director, Bureau of Water Compliance
New York State Department of Environmental Conservations
625 Broadway, 4th Floor
Albany, NY 12233-3506

Agreement DEC Index No: CO 1-20170626-244
Bay Park Sewage Treatment Plant
2018 Q1 Quarterly Report - Revised

Dear Mr. DiMuira:

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

c: NCDPW
Kenneth Arnold
Damon Urso
Thomas Immerso

Hazen and Sawyer
Mark Hanson
Paul Sauer
Eric Mills
Tom Zakrzewski

ARCADIS
Peter Glus
Greg Bazydola
Maryanne Dioquino

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Edward Hampston
Cathy Haas
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Josh Lin
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.
1.0 Executive Summary

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

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

**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

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

Table 3 – Construction Completion Milestones

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Agreement Date</th>
<th>Actual/Forecast</th>
<th>% Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barnes Avenue – Baldwin</td>
<td>12/31/2019</td>
<td>9/10/2018</td>
<td>70</td>
</tr>
<tr>
<td>Raw sewage pumping facility</td>
<td>12/1/2020</td>
<td>12/1/2020</td>
<td>0</td>
</tr>
<tr>
<td>Sludge dewatering facilities</td>
<td>12/15/2018</td>
<td>8/8/2018</td>
<td>82</td>
</tr>
<tr>
<td>Effluent Screening and disinfection</td>
<td>7/29/2020</td>
<td>12/5/2021</td>
<td>0</td>
</tr>
<tr>
<td>Electrical Distribution Phase E1-E3</td>
<td>9/21/2019</td>
<td>5/3/2019</td>
<td>86</td>
</tr>
<tr>
<td>Secondary Flood Protection</td>
<td>6/3/2020</td>
<td>TBD</td>
<td>0</td>
</tr>
<tr>
<td>Upgrade to 3 Generator Operation</td>
<td>11/30/2018</td>
<td>12/27/2018</td>
<td>27</td>
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<tr>
<td>Hot water piping system</td>
<td>11/17/2020</td>
<td>TBD</td>
<td>0</td>
</tr>
<tr>
<td>Cedar Dr, Roosevel et al PS</td>
<td>5/8/2018</td>
<td>1/12/2018</td>
<td>100</td>
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<tr>
<td>Wantagh, Newbridge et al PS</td>
<td>4/25/2018</td>
<td>2/12/2018</td>
<td>100</td>
</tr>
<tr>
<td>Lawrence &amp; Sage Lake PS</td>
<td>8/30/2018</td>
<td>7/10/2018</td>
<td>82</td>
</tr>
<tr>
<td>East Avenue Ejector Station</td>
<td>12/28/2019</td>
<td>3/16/2021</td>
<td>0</td>
</tr>
<tr>
<td>Level 1 BNR</td>
<td>4/8/2020</td>
<td>7/1/2020</td>
<td>11</td>
</tr>
<tr>
<td>Sidestream Deammonification</td>
<td>9/25/2020</td>
<td>8/12/2021</td>
<td>0</td>
</tr>
</tbody>
</table>
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 lightening 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 Hawthrone 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. A 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 reconnect 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.

**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

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

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

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

These milestones will be reviewed as the Sidestream Deammonification and Level 1 BNR projects progress through the construction phase.
VI.0

Diversion Project

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

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

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

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>
<thead>
<tr>
<th>Milestone</th>
<th>Date Completed</th>
<th>Certification Submitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effluent Screening and Disinfection - Design Completion</td>
<td>1/5/2018</td>
<td>7/5/18</td>
</tr>
<tr>
<td>East Avenue Ejector Station - Design Completion</td>
<td>3/2/2018</td>
<td>7/5/18</td>
</tr>
<tr>
<td>Cedar Dr, Roosevelt et al PS - Construction Completion</td>
<td>1/12/2018</td>
<td>7/5/18</td>
</tr>
<tr>
<td>Wantagh, Newbridge et al PS – Construction Completion</td>
<td>2/12/2018</td>
<td>7/5/18</td>
</tr>
</tbody>
</table>
IX.0  
Community Relations

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


2. Community Meeting Minutes.

3. Environmental Benefit Project Cedar Creek Kayak Launch Catalog Cuts
## Bay Park Master Schedule 171130

### Existing Capital Projects

**S3B119-05G - Generator Controls**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Start</th>
<th>Finish</th>
<th>% Comp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design - Generator Controls</td>
<td>21-Oct-13 A</td>
<td>22-Apr-14 A</td>
<td>100</td>
</tr>
<tr>
<td>Procurement - Generator Controls</td>
<td>28-Oct-13 A</td>
<td>25-Feb-14 A</td>
<td>100</td>
</tr>
<tr>
<td>Temp Generators Off-line / Plant Power on House Generators</td>
<td>18-Nov-14 A</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Construction - Generator Controls</td>
<td>24-Jun-16 A</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

**S3B120-01G - Influent Screening Facility Improvements**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Start</th>
<th>Finish</th>
<th>% Comp</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFP / Advertise CM Services - Influent Screening</td>
<td>20-Apr-13 A</td>
<td>24-May-13 A</td>
<td>100</td>
</tr>
<tr>
<td>Award / NTP CM Services - Influent Screening</td>
<td>25-May-13 A</td>
<td>06-Jun-14 A</td>
<td>100</td>
</tr>
<tr>
<td>Bid / Advertise - Influent Screening</td>
<td>14-Oct-13 A</td>
<td>26-Nov-13 A</td>
<td>100</td>
</tr>
<tr>
<td>Award / NTP - Influent Screening</td>
<td>27-Nov-13 A</td>
<td>27-May-14 A</td>
<td>100</td>
</tr>
<tr>
<td>Construction - Influent Screening</td>
<td>27-May-14 A</td>
<td>09-Jun-17 A</td>
<td>100</td>
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**S3B120-02G - Grit Removal Facility Improvements**

<table>
<thead>
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<tbody>
<tr>
<td>RFP / Advertise CM Services - Grit Removal</td>
<td>07-Oct-13 A</td>
<td>25-Oct-13 A</td>
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</tr>
<tr>
<td>Award / NTP CM Services - Grit Removal</td>
<td>26-Oct-13 A</td>
<td>26-May-14 A</td>
<td>100</td>
</tr>
<tr>
<td>75% to 100% Design / Bid Documents - Grit Removal</td>
<td>06-May-13 A</td>
<td>12-Feb-14 A</td>
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<tr>
<td>County Prepare Bid for Advertisement - Grit Removal</td>
<td>13-Feb-14 A</td>
<td>23-Feb-14 A</td>
<td>100</td>
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<tr>
<td>Bid / Advertise - Grit Removal</td>
<td>24-Feb-14 A</td>
<td>21-Mar-14 A</td>
<td>100</td>
</tr>
<tr>
<td>Bid Opening - Grit Removal</td>
<td>25-Mar-14 A</td>
<td>25-Mar-14 A</td>
<td>100</td>
</tr>
<tr>
<td>Award / NTP - Grit Removal</td>
<td>26-Mar-14 A</td>
<td>20-Apr-15 A</td>
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<tr>
<td>Construction - Grit Removal</td>
<td>20-Apr-15 A</td>
<td>18-Jun-17 A</td>
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</table>

**S35100-01G - Cleaning & Repair of Digesters & Storage Tanks**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Start</th>
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<th>% Comp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction - Digger Cleaning</td>
<td>20-May-13 A</td>
<td>16-Apr-15 A</td>
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</tr>
</tbody>
</table>

**S35114-03G - Sludge Thickening Facility Improvements**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Start</th>
<th>Finish</th>
<th>% Comp</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFP / Advertise CM Services - Sludge Thickening</td>
<td>21-Aug-13 A</td>
<td>09-Sep-13 A</td>
<td>100</td>
</tr>
<tr>
<td>Award / NTP CM Services - Sludge Thickening</td>
<td>10-Sep-13 A</td>
<td>25-Mar-14 A</td>
<td>100</td>
</tr>
<tr>
<td>Award / NTP - Sludge Thickening</td>
<td>21-Aug-13 A</td>
<td>24-Oct-13 A</td>
<td>100</td>
</tr>
<tr>
<td>Construction - Sludge Thickening</td>
<td>28-Oct-13 A</td>
<td>30-Aug-16 A</td>
<td>100</td>
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</table>

**S35116-01G - Odor Control at Bay Park & Cedar Creek**

<table>
<thead>
<tr>
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<th>Start</th>
<th>Finish</th>
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</tr>
</thead>
<tbody>
<tr>
<td>RFP / Advertise CM Services - Odor Control BP &amp; CC WPCPs</td>
<td>21-Aug-13 A</td>
<td>09-Sep-13 A</td>
<td>100</td>
</tr>
<tr>
<td>Award / NTP CM Services - Odor Control BP &amp; CC WPCPs</td>
<td>10-Sep-13 A</td>
<td>10-Mar-14 A</td>
<td>100</td>
</tr>
<tr>
<td>Award / NTP - Odor Control BP &amp; CC WPCPs</td>
<td>21-Aug-13 A</td>
<td>23-Oct-13 A</td>
<td>100</td>
</tr>
<tr>
<td>Construction - Odor Control BP &amp; CC WPCPs</td>
<td>28-Oct-13 A</td>
<td>07-Nov-15 A</td>
<td>100</td>
</tr>
</tbody>
</table>
### Hurricane Sandy Projects

#### FEMA Approval Process
- FEMA-404 Grants: 60 days, Start: 12-Aug-13, Finish: 31-Oct-13, % Comp: 100
- FEMA Finalize Damage Scope and Cost: 45 days, Start: 12-Aug-13, Finish: 19-Dec-13, % Comp: 100
- Submit 406 HMP: 45 days, Start: 12-Aug-13, Finish: 19-Dec-13, % Comp: 100
- FEMA-406 HMP Negotiation: 90 days, Start: 06-Jan-14, Finish: 15-Jan-14, % Comp: 100
- FEMA Scope and Cost Negotiation: 90 days, Start: 20-Dec-13, Finish: 15-Jan-14, % Comp: 100

#### S35121-01G/E - Final Settling Tank Rehabilitation

<table>
<thead>
<tr>
<th>Activity</th>
<th>Orig Dur</th>
<th>Rem Dur</th>
<th>Start</th>
<th>Finish</th>
<th>% Comp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Award / NTP - Final Tank Rehabilitation</td>
<td>64</td>
<td>0</td>
<td>21-Aug-13</td>
<td>23-Oct-13</td>
<td>100</td>
</tr>
<tr>
<td>Construction - Final Tank Rehabilitation</td>
<td>730</td>
<td>0</td>
<td>28-Oct-13</td>
<td>13-May-16</td>
<td>100</td>
</tr>
</tbody>
</table>

#### S35121-03G - Raw Sewage Pumping Facility

<table>
<thead>
<tr>
<th>Activity</th>
<th>Orig Dur</th>
<th>Rem Dur</th>
<th>Start</th>
<th>Finish</th>
<th>% Comp</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFP / Advertise CM Services - Raw Sewage Pumping Facility</td>
<td>29</td>
<td>29</td>
<td>06-Apr-18</td>
<td>04-May-18</td>
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</tr>
<tr>
<td>Award / NTP CM Services - Raw Sewage Pumping Facility</td>
<td>90</td>
<td>90</td>
<td>05-May-18</td>
<td>02-Aug-18</td>
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</table>

#### S35121-09G - Sludge Dewatering

<table>
<thead>
<tr>
<th>Activity</th>
<th>Orig Dur</th>
<th>Rem Dur</th>
<th>Start</th>
<th>Finish</th>
<th>% Comp</th>
</tr>
</thead>
<tbody>
<tr>
<td>County Prepare Bid for Advertisement - Dewatering</td>
<td>7</td>
<td>7</td>
<td>27-Apr-18</td>
<td>03-May-18*</td>
<td>0</td>
</tr>
<tr>
<td>Bid / Advertise - Raw Sewage Pumping Facility</td>
<td>29</td>
<td>29</td>
<td>04-May-18</td>
<td>01-Jun-18</td>
<td>0</td>
</tr>
<tr>
<td>Bid Opening - Raw Sewage Pumping Facility</td>
<td>1</td>
<td>1</td>
<td>05-Jun-18</td>
<td>05-Jun-18</td>
<td>0</td>
</tr>
<tr>
<td>Award / NTP - Raw Sewage Pumping Facility</td>
<td>90</td>
<td>90</td>
<td>06-Jun-18</td>
<td>03-Sep-18</td>
<td>0</td>
</tr>
</tbody>
</table>

### Remaining Work

The remaining work includes various activities related to FEMA approval processes, design, construction, and testing phases.

### Hazen & Sawyer PJR Joint Venture

The remaining work is managed by Hazen & Sawyer PJR Joint Venture, responsible for the project's completion.
## Bay Park Master Schedule

**Master Schedule**

<table>
<thead>
<tr>
<th>Activity Name</th>
<th>Start</th>
<th>Finish</th>
<th>% Comp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bid Opening - Dewatering</strong></td>
<td>19-May-15 A</td>
<td>19-May-15 A</td>
<td>100%</td>
</tr>
<tr>
<td><strong>Award / NTP - Dewatering</strong></td>
<td>20-May-15 A</td>
<td>07-Dec-15 A</td>
<td>100%</td>
</tr>
<tr>
<td><strong>Construction - Dewatering</strong></td>
<td>07-Dec-15 A</td>
<td>06-Jun-18 A</td>
<td>79%</td>
</tr>
</tbody>
</table>

### S35121-99R - Sludge Dewatering Demolition

**Design Process**
- 100% Design - Dewatering Demolition: 02-Jan-14 A, 01-May-15 A, 15-Sep-15 A, 20-Jan-18
- **Bid / Construction**
  - County Prepare Bid for Advertisement - Dewatering Demolition: 01-Apr-14 A, 04-Apr-14 A, 13-May-14 A, 14-May-14 A
  - Bid / Advertisement - Dewatering Demolition: 01-Apr-14 A, 04-Apr-14 A, 13-May-14 A, 14-May-14 A
  - Bid Opening - Dewatering Demolition: 01-Apr-14 A, 04-Apr-14 A, 13-May-14 A, 14-May-14 A
  - **Award / NTP - Dewatering Demolition** | 15-Sep-15 A | 22-Sep-15 A | 100% |
  - **Construction - Dewatering Demolition** | 15-Sep-15 A | 22-Sep-15 A | 100% |

### S35121-11G - Effluent Screening & Disinfection

**CM Contract**
- RFP / Advertise CM Services - Effluent Screening & Disinfection: 29-Jan-16 A, 29-Apr-16 A, 09-Jan-17 A, 26-Jan-18
- **Award / NTP CM Services - Effluent Screening & Disinfection** | 26-Jan-18 | 28-Feb-18 | 100% |

**Design Process**
- Finalize Technical Memorandum - Effluent Screening & Disinfection: 06-Jan-16 A, 10-Feb-16 A, 09-Jan-17 A, 22-May-17
- Prepare Design RFP - Effluent Screening & Disinfection: 06-Jan-16 A, 10-Feb-16 A, 09-Jan-17 A, 22-May-17
- **RFP / Advertise Final Design - Effluent Screening & Disinfection** | 29-Mar-16 A | 09-Jan-17 A | 100% |
- **Award / NTP Final Design - Effluent Screening & Disinfection** | 29-Mar-16 A | 09-Jan-17 A | 100% |
- **Final Design - Effluent Screening & Disinfection** | 29-Mar-16 A | 09-Jan-17 A | 100% |

**Bid / Construction**
- County Prepare Bid for Advertisement - Effluent Screening & Disinfection: 29-Jan-16 A, 16-Feb-16 A, 09-Jan-17 A, 09-Jan-17 A
- **Bid / Advertisement - Effluent Screening & Disinfection** | 29-Jan-16 A | 26-Feb-18 | 100% |
- **Bid Opening - Effluent Screening & Disinfection** | 29-Jan-16 A | 26-Feb-18 | 100% |
- **Bid / NTP Effluent Screening & Disinfection** | 29-Jan-16 A | 26-Feb-18 | 100% |
- **Construction - Effluent Screening & Disinfection** | 29-Jan-16 A | 26-Feb-18 | 100% |

### S35121-12G - Effluent Tide Pumping Building

**CM Contract**
- RFP / Advertise CM Services - Effluent Tide PB: 29-Mar-14 A, 29-Mar-14 A, 24-Aug-17 A, 08-Dec-19 A
- **Award / NTP CM Services - Effluent Tide PB** | 29-Mar-14 A | 24-Aug-17 A | 100% |

**Design Process**
- Preliminary Design - Effluent Tide PB: 30-Mar-14 A, 08-Dec-14 A, 07-Jul-15 A, 21-Jul-15 A
- **RFP / Advertise Final Design - Effluent Tide PB** | 30-Mar-14 A | 08-Dec-14 A | 100% |
- **Award / NTP Final Design - Effluent Tide PB** | 30-Mar-14 A | 08-Dec-14 A | 100% |
- **Final Design - Effluent Tide PB** | 30-Mar-14 A | 08-Dec-14 A | 100% |

**Bid / Construction**
- County Prepare Bid for Advertisement - Effluent Tide PB: 29-Mar-14 A, 29-Mar-14 A, 24-Aug-17 A, 08-Dec-19 A
- **Bid / Advertisement - Effluent Tide PB** | 29-Mar-14 A | 24-Aug-17 A | 100% |
- **Bid Opening - Effluent Tide PB** | 29-Mar-14 A | 24-Aug-17 A | 100% |
- **Bid / NTP Effluent Tide PB** | 29-Mar-14 A | 24-Aug-17 A | 100% |
- **Construction - Effluent Tide PB** | 29-Mar-14 A | 24-Aug-17 A | 100% |

### S35121-13E - Phase E1 Electrical Distribution Systems Improvements

**CM Contract**
- RFP / Advertise CM Services - Phase E1 EDS: 30-Jan-14 A, 24-Jan-14 A, 07-Jul-14 A, 07-Jul-14 A
- **Award / NTP CM Services - Phase E1 EDS** | 30-Jan-14 A | 24-Jan-14 A | 100% |
- **Award / NTP CM Services - Phase E1 EDS** | 30-Jan-14 A | 24-Jan-14 A | 100% |
- **Construction - Phase E1 EDS** | 30-Jan-14 A | 24-Jan-14 A | 100% |

---

**Remaining Level of Effort**

<table>
<thead>
<tr>
<th>Activity Name</th>
<th>Start</th>
<th>Finish</th>
<th>% Comp</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Remaining Level of Effort</strong></td>
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<td></td>
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**Actual Work**

<table>
<thead>
<tr>
<th>Activity Name</th>
<th>Start</th>
<th>Finish</th>
<th>% Comp</th>
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</thead>
<tbody>
<tr>
<td><strong>Actual Work</strong></td>
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**Remaining Work**

<table>
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<tr>
<th>Activity Name</th>
<th>Start</th>
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Bay Park Master Schedule 171130

Master Schedule

Activity Name | Orig Dur | Rem Dur | Start | Finish | % Comp

Design Process
- Phase E1 Design 119 0 15-Aug-13 A 11-Dec-13 A 100
- Finalize Technical Memorandum - Phase 1 EDS 46 0 12-Aug-13 A 03-Jan-14 A 100

Bid / Construction
- County Prepare Bid for Advertisement - Phase E1 EDS 7 0 12-Dec-13 A 19-Dec-13 A 100
- Bid / Advertise - Phase E1 EDS 30 0 20-Dec-13 A 31-Jan-14 A 100
- Bid Opening - Phase E1 EDS 1 0 06-Feb-14 A 06-Feb-14 A 100
- Award / NTP - Phase E1 EDS 76 0 07-Feb-14 A 27-May-14 A 100
- Construction - Phase E1 EDS 670 0 27-May-14 A 19-Oct-16 A 100

S35121-14E - Phase E2 Unit Substation No. 2 & Electrical Distribution

Design Process
- Phase E2 Design - EDS - USS No. 2 155 0 04-Apr-14 A 18-Aug-14 A 100

Bid / Construction
- County Prepare Bid for Advertisement - EDS Phase E2 - USS No. 2 7 0 21-Aug-14 A 27-Aug-14 A 100
- Bid / Advertise - EDS Phase E2 - USS No. 2 29 0 29-Aug-14 A 10-Oct-14 A 100
- Bid Opening - EDS Phase E2 - USS No. 2 1 0 14-Oct-14 A 14-Oct-14 A 100
- Award / NTP - EDS Phase E2 - USS No. 2 90 0 15-Oct-14 A 11-May-15 A 100
- Construction - Phase E2 - USS No. 2 660 0 11-May-15 A 29-Sep-17 A 100

S35121-14F - Phase E3 Main Substation & Electrical Distribution

Design Process
- Phase E3 Design - EDS - Main Substation 285 0 01-Apr-14 A 09-Feb-15 A 100

Bid / Construction
- County Prepare Bid for Advertisement - EDS Phase E3 - MSS 7 0 10-Feb-15 A 12-Feb-15 A 100
- Bid / Advertise - EDS Phase E3 - Main Substation 36 0 13-Feb-15 A 17-Apr-15 A 100
- Bid Opening - EDS Phase E3 - Main Substation 1 0 21-Apr-15 A 21-Apr-15 A 100
- Award / NTP - EDS Phase E3 - Main Substation 90 0 22-Apr-15 A 05-Oct-15 A 100
- Construction - Phase E3 - Main Substation 1095 562 05-Oct-15 A 14-Jun-19* 49

S35121-14M - Phase E2 & E3 Construction Management

CM Contract
- RFP / Advertise CM Services - Electrical Phase E2 & E3 29 0 25-Jul-14 A 22-Aug-14 A 100
- Award / NTP CM Services - Electrical Phase E2 & E3 90 0 23-Aug-14 A 08-Jun-15 A 100

S35123-L33E - Phase E4 Electrical Utility Connections

CM Contract
- RFP / Advertise CM Services - Phase E4 Electrical Utility Connections 29 0 20-Dec-18 17-Jan-19 0
- Award / NTP CM Services - Phase E4 Electrical Utility Connections 90 0 18-Jan-19 17-Apr-19 0

Design Process
- 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
- PSEG Coordination 5 1114 12-Aug-13 A 17-Dec-20 0

Bid / Construction
- 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 06-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 90 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

Page 4 of 12
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### Bay Park Master Schedule 171130

#### Master Schedule

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#### S35123-L37 - Miscellaneous Storm Repairs, Mitigation & Site Restoration

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#### Design Process

| 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      |

#### Bid / Construction

| County Prepare Bid for Advertisement - Misc Storm Repairs, Mitigation & Site Restoration | 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      |

#### S3B119-06G - Bay Park STP Heating Hot Water Piping Temporary System

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#### Bid / Construction

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| Bid / Advertise - Heating Hot Water Piping Temporary System                  | 8        | 0       | 19-Jun-15   | 26-Jun-15    | 100    |
| Bid Opening - Heating Hot Water Piping Temporary System                      | 1        | 0       | 30-Jun-15   | 30-Jun-15    | 100    |
| Award / NTP - Heating Hot Water Piping Temporary System                      | 13       | 0       | 01-Jul-15   | 13-Jul-15    | 100    |
| Construction - Heating Hot Water Piping Temporary System                     | 124      | 0       | 13-Jul-15   | 04-Aug-16    | 100    |

#### S35121-06G - Aeration Blower Facility

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#### Design Process

| Preliminary Design - Aeration Blower Facility                                | 180      | 64      | 01-Nov-16   | 01-Feb-18    | 64     |
| RFP / Advertise - Final Design - Aeration Blower Facility                   | 147      | 147     | 02-Feb-18   | 28-Jun-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      |

#### Bid / Construction

| 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-Oct-19    | 0      |
| Construction - Aeration Blower Facility                                     | 1095     | 1095    | 02-Oct-19   | 30-Nov-22*   | 0      |

---

**Remaining Level of Effort** | **Actual Work** | **Actual Level of Effort** | **Remaining Work**
### S3P311 - Pump Stations

#### S3P311-01G - Dock Place & Southland Drive

**Construction**
- **Rem Dur**: 240
- **Start**: 28-Oct-13
- **Finish**: 31-Oct-14
- **% Comp**: 100

#### S3P311-02G - Cedar, Roosevelt, Whitewood, Biltmore & Alhambra

**Design Process**
- **Finalize Technical Memorandum - Pump Station 2**: 140
- **Start**: 12-Aug-13
- **Finish**: 22-Nov-13
- **% Comp**: 100
- **Remaining Dur**: 0

**Bid / Construction**
- **County Prepare Bid for Advertisement - Pump Station 2**: 7
- **Start**: 27-Mar-15
- **Finish**: 09-Apr-15
- **% Comp**: 100
- **Remaining Dur**: 0

#### S3P311-03G - Wantagh, Newbridge, Merrick & Ray

**Design Process**
- **Finalize Technical Memorandum - Pump Station 3**: 140
- **Start**: 12-Aug-13
- **Finish**: 22-Nov-13
- **% Comp**: 100
- **Remaining Dur**: 0

**Bid / Construction**
- **County Prepare Bid for Advertisement - Pump Station 3**: 7
- **Start**: 14-Apr-15
- **Finish**: 30-Apr-15
- **% Comp**: 100
- **Remaining Dur**: 0

#### S3P311-02M - PS2 & PS3 Construction Management

**CM Contract**
- **RFP / Advertise CM Services - PS2 & PS3**: 29
- **Start**: 03-Oct-14
- **Finish**: 31-Oct-14
- **% Comp**: 100
- **Remaining Dur**: 0

**Award / NTP CM Services - PS2 & PS3**: 90
- **Start**: 01-Nov-14
- **Finish**: 03-Mar-16
- **% Comp**: 100
- **Remaining Dur**: 0

#### S3P311-04G - Felix, Fox, Northern & Grand

**Design Process**
- **Finalize Technical Memorandum - Pump Station 4**: 140
- **Start**: 12-Aug-13
- **Finish**: 22-Nov-13
- **% Comp**: 100
- **Remaining Dur**: 0

**Bid / Construction**
- **County Prepare Bid for Advertisement - Pump Station 4**: 7
- **Start**: 13-Mar-15
- **Finish**: 19-Mar-15
- **% Comp**: 100
- **Remaining Dur**: 0

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**Legend**
- Remaining Level of Effort
- Actual Work
- Actual Level of Effort
- Remaining Work
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- **Remaining Duration (Rem Dur):** 0
- **Start:** 15-Sep-15
- **Finish:** 08-Mar-16
- **Completed:** 100%

### Bid / Construction
- **Activity:** County Prepare Bid for Advertisement - Lawrence STP & Sage Lake PS
  - **Start:** 09-Apr-16
  - **End:** 14-Apr-16
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  - **Start:** 15-Apr-16
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- **Activity:** Award / NTP - Lawrence STP & Sage Lake PS
  - **Start:** 18-May-16
  - **End:** 22-Mar-17
  - **Completed:** 100%
- **Activity:** Construction - Lawrence STP & Sage Lake PS
  - **Start:** 30-May-18
  - **End:** 30-May-18
  - **Completed:** 67%

### S3P311-11G - Roslyn Village, Morgan Park & Shore Road

#### CM Contract
- **Activity:** RFP / Advertise CM Services - Roslyn Village, Morgan Park & Shore Rd
  - **Start:** 30-Nov-17
  - **End:** 28-Dec-17
  - **Completed:** 0%
- **Activity:** Award / NTP CM Services - Roslyn Village, Morgan Park & Shore Rd
  - **Start:** 29-Dec-17
  - **End:** 28-Mar-18
  - **Completed:** 0%

#### Design Process
- **Activity:** Preliminary Design - Roslyn Village, Morgan Park & Shore Rd
  - **Start:** 01-Mar-17
  - **End:** 16-Jun-16
  - **Completed:** 100%
- **Activity:** RFP / Advertise Final Design - Roslyn Village, Morgan Park & Shore Rd
  - **Start:** 29-Mar-17
  - **End:** 15-Jul-16
  - **Completed:** 100%
- **Activity:** Award / NTP Final Design - Roslyn Village, Morgan Park & Shore Rd
  - **Start:** 16-Jul-16
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- **Activity:** Final Design - Roslyn Village, Morgan Park & Shore Rd
  - **Start:** 02-Feb-17
  - **End:** 02-Aug-17
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#### Bid / Construction
- **Activity:** County Prepare Bid for Advertisement - Roslyn Village, Morgan Park & Shore Rd
  - **Start:** 13-Oct-17
  - **End:** 09-Nov-17
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- **Activity:** Bid / Advertise - Roslyn Village, Morgan Park & Shore Rd
  - **Start:** 09-Nov-17
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- **Activity:** Construction - Roslyn Village, Morgan Park & Shore Rd
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### S80019-03GR - Cedar Point Lake (Doxey Brook) Pump Station

#### CM Contract
- **Activity:** RFP / Advertise CM Services - Cedar Point Lake PS
  - **Start:** 01-Dec-16
  - **End:** 23-Dec-16
  - **Completed:** 100%
- **Activity:** Award / NTP CM Services - Cedar Point Lake PS
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  - **End:** 29-Dec-17
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#### Design Process
- **Activity:** Final Design - Cedar Point Lake PS
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- **Activity:** County Prepare Bid for Advertisement - Cedar Point Lake PS
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- **Activity:** Construction - Cedar Point Lake PS
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### Nitrogen Reduction Projects

#### S35123-L38G - Sidestream Deammonification

##### CM Contract
- **Activity:** RFP / Advertise CM Services - Sidestream Centrate Treatment
  - **Start:** 29-Jul-17
  - **End:** 25-Aug-17
  - **Completed:** 100%
- **Activity:** Award / NTP CM Services - Sidestream Centrate Treatment
  - **Start:** 26-Aug-17
  - **End:** 23-Oct-17
  - **Completed:** 73%

##### RFP Process
- **Activity:** Develop / Issue RFI - Sidestream Centrate Treatment
  - **Start:** 30-Sep-14
  - **End:** 26-May-15
  - **Completed:** 100%
- **Activity:** RFI Response Period - Sidestream Centrate Treatment
  - **Start:** 26-May-15
  - **End:** 07-Aug-15
  - **Completed:** 100%
- **Activity:** RFI Evaluation Period - Sidestream Centrate Treatment
  - **Start:** 08-Aug-15
  - **End:** 29-Feb-16
  - **Completed:** 100%
- **Activity:** NCDPW Review & Award Sidestream Centrate Treatment
  - **Start:** 01-Mar-16
  - **End:** 26-Sep-16
  - **Completed:** 100%

##### Design Process
- **Activity:** Complete Technical Design Report
  - **Start:** 27-Sep-16
  - **End:** 26-Nov-16
  - **Completed:** 100%
- **Activity:** Detailed Design - Sidestream Centrate Treatment
  - **Start:** 27-Sep-16
  - **End:** 31-Oct-17
  - **Completed:** 100%

##### Bid / Construction
- **Activity:** County Prepare Bid for Advertisement - Sidestream Centrate Treatment
  - **Start:** 01-Nov-17
  - **End:** 16-Nov-17
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**Remaining Level of Effort**
**Actual Work**
**Actual Level of Effort**
**Remaining Work**

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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 1st Avenue
  - JV is following up on the plans to repave the road.
  - JV is aware of the drainage issues that need correcting on 1st 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

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<th>Issues</th>
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<td>Noise from Construction Vehicles. And, visibility of a yellow noise attenuator panel near primary tanks.</td>
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<td>Drainage on Harbor Road</td>
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<td>BNR – noise, dust and odor into playground</td>
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<td>Status of generators/PSE&amp;G</td>
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<td>Park &amp; Plant Maintenance – light and cleaning of stack</td>
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<td>Suez</td>
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Meeting concluded at approximately 8:20 pm

Next meeting date will be in the summer, R. Faseler to coordinate with Bay Park Civic Association.
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
From kayaks and canoes to sailboats and wave runners, Gator has been custom fabricating aluminum dock systems for 44 years. Our dock systems are most often used in public or commercial applications where durability, long life-cycle and minimal maintenance are imperative to the project. When you choose Gator for your launch, we support you throughout the entire project.

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

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<tr>
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