July 30, 2018

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

Agreement DEC Index No: CO 1-20170626-244
Bay Park Sewage Treatment Plant
2018 Q2 Quarterly Report

Dear Mr. DiMuira:

We are submitting herewith our revised Quarterly Report for the period of April 1, 2018 through June 30, 2018.

Very truly yours,

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

Cc: NCDPW
   Kenneth Arnold
   Damon Urso
   Thomas Immerso

   Hazen and Sawyer
   Mark Hanson
   Paul Saurer
   Eric Mills
   Tom Zakrzewski

   ARCADIS
   Peter Glus
   Greg Bazydola
   Maryanne Dioquino

   DEC
   Joseph DiMura
   Edward Hampston
   Cathy Haas
   Katie French
   Paul Harding
   Brian Lee
   Josh Lin
DEC Agreement
Q2 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 April 1, 2018 through June 30, 2018.
I.0 Executive Summary

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

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

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

Additional information is included to provide a comprehensive representation of the County’s efforts towards achieving compliance with the Agreement. This Quarterly Report updates the status and progress of DPW’s compliance with the milestones set forth in the Agreement during the period from April 1, 2018 through June 30, 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>10/1/2019</td>
</tr>
<tr>
<td>East Avenue Ejector Station</td>
<td>2/8/2018</td>
<td>3/2/2018 *</td>
</tr>
</tbody>
</table>

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

Project Notes:

**Effluent Screening and Disinfection**

Progress This Quarter:
The design phase was completed last quarter and certification of completion has been submitted this quarter.

**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. 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:
On August 31, 2018, the County will advertise the services contract of the Final Design Engineer who will produce the bid documents for this construction project. A modification request will be submitted to the Office of General Counsel for this milestone.

**East Avenue Ejector Station**

Progress This Quarter:
The design phase was completed in the first quarter and certification of completion has been submitted this quarter.
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>4/14/2019</td>
</tr>
<tr>
<td>Effluent Screening and disinfection</td>
<td>8/21/2018</td>
<td>2/10/2019</td>
</tr>
<tr>
<td>Secondary Flood Protection</td>
<td>6/5/2018</td>
<td>10/22/18</td>
</tr>
<tr>
<td>Hot water piping system</td>
<td>5/25/2019</td>
<td>5/7/2020</td>
</tr>
<tr>
<td>East Avenue Ejector Station</td>
<td>8/19/2018</td>
<td>4/15/2019</td>
</tr>
<tr>
<td>Sidestream Deammonification</td>
<td>6/12/2018</td>
<td>10/22/2018</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>10/25/2018</td>
<td>80</td>
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<tr>
<td>Raw sewage pumping facility</td>
<td>12/1/2020</td>
<td>10/9/2021</td>
<td>0</td>
</tr>
<tr>
<td>Sludge dewatering facilities</td>
<td>12/15/2018</td>
<td>8/8/2018</td>
<td>85</td>
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<tr>
<td>Effluent Screening and disinfection</td>
<td>7/29/2020</td>
<td>12/5/2021</td>
<td>0</td>
</tr>
<tr>
<td>Effluent tide pumping facilities</td>
<td>5/28/2020</td>
<td>5/12/2020</td>
<td>12</td>
</tr>
<tr>
<td>Electrical Distribution Phase E1-E3</td>
<td>9/21/2019</td>
<td>5/2/2019</td>
<td>87</td>
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<tr>
<td>Secondary Flood Protection</td>
<td>6/3/2020</td>
<td>10/21/20</td>
<td>0</td>
</tr>
<tr>
<td>Stormwater Pump Stations</td>
<td>3/31/2018</td>
<td>1/18/2019</td>
<td>61</td>
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<tr>
<td>Upgrade to 3 Generator Operation</td>
<td>11/30/2018</td>
<td>2/28/2019</td>
<td>40</td>
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<tr>
<td>Hot water piping system</td>
<td>11/17/2020</td>
<td>5/6/2022</td>
<td>0</td>
</tr>
<tr>
<td>Cedar Dr, Roosevelt et al PS</td>
<td>5/8/2018</td>
<td>1/12/2018 A</td>
<td>100</td>
</tr>
<tr>
<td>Wantagh, Newbridge et al PS</td>
<td>4/25/2018</td>
<td>2/12/2018 A</td>
<td>100</td>
</tr>
<tr>
<td>Ocean Ave, Mill Rd et al PS</td>
<td>12/5/2018</td>
<td>8/31/2018</td>
<td>93</td>
</tr>
<tr>
<td>Inwood, Doughty et al PS</td>
<td>7/4/2019</td>
<td>3/18/2019</td>
<td>38</td>
</tr>
<tr>
<td>Lawrence &amp; Sage Lake PS</td>
<td>8/30/2018</td>
<td>8/9/2018</td>
<td>91</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>12</td>
</tr>
<tr>
<td>Sidestream Deammonification</td>
<td>9/25/2020</td>
<td>10/21/20</td>
<td>0</td>
</tr>
</tbody>
</table>

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

**Expected Progress Next Quarter:**
- Hempstead WWFM Project (S3P311-09S)
- The Contractor will complete installation of the 24” FM along Front St. between Peninsula Blvd. & Hempstead PS (400 Front St.)
- The Contractor will install SMH-05 & connect to the existing Interceptor near West Dr.
- Hempstead WWPS Project (S3P311-09G)
- The Contractor will perform wet well cleaning at NCPS.
- The Contractor will conduct testing & training for equipment at Hempstead PS & Newmans Court PS.
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 is currently 4/14/2019. A milestone modification request will be submitted to the Office of General Counsel.

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 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.

Expected Progress Next Quarter:
- Continue Centrifuge Start-up and Testing.
- Continue installation, repair, start-up, and testing of conveying systems.
- Continue start-up and integration of PMCS system.
- Continue start-up and testing of polymer systems.
- Continue start-up and testing of chemical systems.
- Continue installation and start-up of electric and lighting systems.
- Continue misc. architectural installations.
- Demo existing and install new doors and hardware.
- Continue installation, start-up, and testing of HVAC systems.
- Continue installation, start-up, and testing of Fire Alarm and Fire Suppression systems.

Effluent Screening and Disinfection
Progress This Quarter:
The design phase was completed this quarter.

Expected Progress Next Quarter
The County will advertise this project, then receive bids and proceed with the award process. 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 has decided to move forward with construction management services procurement concurrent with ongoing negotiations with CSEA. The NTP is currently projected for 2/10/2019. A milestone modification request will be submitted by the County 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:
- Remove unsuitable material, installed blue stone and filter fabric under four electrical manholes.
- Place concrete ductbank.

Expected Progress Next Quarter
- Continue advancing procurement items, submittals and vendors’ approval.
- Perform Masonry remediation brickwork reconstruction.
- Misc. electric work for temporary electric power.
- Demolition of Existing Substation No.3.
- Approval, lay out, and start of fabrication of Annex Building Foundation Piles

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 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

Expected Progress Next Quarter:
• Prep for, schedule and perform testing of three Cast Coil Transformers on site.
• Start P-051 site lighting work once change order is executed.
• Continue underground cable pulling, splicing, testing and arc-proofing of 5KV cables.
• Continue/complete testing of new Electrical equipment.
• Continue branch conduit work and wiring on EL. 18.25 & 41.25 floors
• Continue/complete power and control wiring for HVAC equipment.
• Install DC battery racks and batteries and wire same for DC controls to Switchgear.
• Continue conduit, wiring and installation of lighting fixtures on EL. 18.25 in all rooms.
• Continue conduit and wiring for exterior lighting fixtures.
• Complete conduit and wiring to equipment in Fuel Transfer room
• Install drop-in lighting fixtures and wire same in rooms when drop ceilings and metal pan ceilings are complete.
• Complete installation of fire alarm devices and start check-out of system.
• Complete drop-in and metal pan ceilings at EL. 41.25 and Transformer rooms.
• Take delivery of flood doors and install same.
• Continue installation of exterior sun shades once exterior lighting is complete.
• Install Fire Suppression system inside Generator enclosures once permit application is approved by NC FM office.
• Continue working on miscellaneous electrical change orders.
• Start pulling quick-pull wire bundles from MSS Bldg to Generator Bldg for P-115 Generator control wiring.
• PSE&G to connect interim service and install CT’s and PT’s once load letter is provided.

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. 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 has decided to move forward with construction management services procurement concurrent with ongoing negotiations with CSEA. The NTP is currently projected for 10/22/2018. A milestone modification request will be submitted by the County 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. A milestone modification request will be submitted to the Office of General Counsel.

Progress This 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.

Expected Progress Next Quarter:
- North Pump Station
  - Install Pump Power Cable
  - Install Stop Log Frames and Weirs
  - Install Exterior Lighting Conduit
  - Install Exterior Lighting Fixtures
  - Install Cable Tray
  - Install SCADA components
- North Pump Station MCC Bldg
  - Set Steel Beams @ El +19.50 - MCC Bldg
  - Install cable, conduit and lighting
  - Install HVAC equipment
  - Install Gas Monitoring Devices
  - Install Lightning Protection Conduits
  - Install Lighting Switches MCC Electrical Room
  - Install Lightning Protection Ground Loop
  - Install HVAC Ductwork @ North MCC Building
  - Install Gas Monitoring Conduit
  - Complete Exterior Flood Door Installation - North MCC Bldg
  - Install Lightning Protection System Roof
  - Pull Wire Gas Monitoring
- South Pump Station
  - Place Pump Pads
  - Set Pump PS 1
  - Set Pump PS 2
  - Set Pump PS 3
  - Set Pump PS 4
  - Install Force Main Piping
  - Install Bar Screen
Install Bending Weir
- Install Stop Log Frame
- Install Exterior Lighting Fixtures
- Form MCC Bldg Support Piers
- Install Roofing System

**Upgrade to 3 Simultaneous Generator Operation**
There have been delays to this project and it is currently projected to be complete three months beyond the milestone date. The project continues to be driven by resolution of change orders for modifications to the gas compressor system. The change order was negotiated in Q2 2018 and the contractor has begun procurement activities. Once the submittals are approved a delivery firm delivery and installation dates will be developed in hopes of advancing the completion date. An update will be provided in the next quarterly report.

**Progress This 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.

**Expected Progress Next Quarter:**
- Continue procurement of major equipment
- Complete starting air compressor installation & commence testing
- Continue service are compressor installation
- Continue cooling loop piping installation
- Commence installation of natural gas compressors & piping
- Commence installation of TCL heat exchanger & MOPO

**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. The current projection for NTP is 5/7/2020. 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 has been submitted.

**Wantagh, Newbridge, Merrick & Ray St Pump Stations**
Construction is complete, milestone has been met, certification of completion has been submitted.

**Ocean Ave, Mill Rd, Woodmere Blvd & Longacre Ave Pump Stations**
This project is on schedule to meet the milestone.

**Progress This 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.

**Expected Progress Next Quarter:**
- Complete field testing (leak and level detection systems and unit heaters)
- Complete training /spare part turnover(Woodmere generator training and turn over spare parts for gas detection system)
- Complete electrical MOPO at Woodmere (PSE&G power and MCC modifications)
- Complete As-Built Drawings and O&Ms
- Complete all punch list work
- Closeout all remaining P files and Change Orders
- Issue Certification of completion

**Inwood, Doughty Blvd, Bayview Ave & Roslyn Rd Pump Stations**
This project is on schedule to meet the milestone.

**Progress This 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).

**Expected Progress Next Quarter:**
- Complete pump installation (main pumps and sump pump) at Doughty Blvd. P.S. Test pumps
- Startup bypass pumping system at Inwood P.S.
- Install main pumps and peak flow pumps at Inwood P.S.
- Progress electrical and generator platform work at Inwood P.S.
- Complete Odor Control System installation at Inwood P.S.
- Progress submittals, training, spare parts turnover
- Progress painting at all P.S.
- Progress door installations at all P.S.
- Progress fire alarm/gas detection/F.O. tank leak & level detection at all P.S.
Lawrence and Sage Lake Pump Stations
This project is on schedule to meet the milestone.

Progress This 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.

Expected Progress Next Quarter:

Lawrence P.S.
- The removal of the bubbler system in the wet well and ultrasonic level transducer and the demolition of the MCC, MCC pad
- Mechanical Work: the gas detection system will be started up and tested; the personnel will be field trained; the new bubbler system in the wet well and level transducer will be installed.
- Electrical Work: the fire alarm system including FACP and devices; SAF-1 and EAF-1/2 panels will be installed, started up and tested; the air monitoring system will be reinstalled.
- The interior and architectural work, site restorations, punch lists and demobilizations, inspections, and the preparations, submissions, review and approvals of the remaining O&M manuals, “as built” and project closeout documents will take place.

Sage Lake P.S.
- The approval of change orders P-025 Control Chamber and P-026 Motor-Gen Chamber Duct Opening at Sage Lake (including P-026 registration) will be done.
- All outstanding submittals for site, mechanical and electrical works will be completed.
The sump pumps at Sage Lake will be removed, replaced, tested, started up and returned back to service.

Mechanical Work: the new supply (SAF-1) and exhaust fans (EAF-1) and associated duct work, the 10 in. ductile air piping; signage and lighting will be installed; the gas detection system will be started up and tested, and the personnel will be field trained.

Electrical work: new wiring in the new D/B conduit; The SCADA system will also be started up and tested; new pump control panel will be started up and tested.

The interior and architectural work, site restorations, punch lists and demobilizations, inspections, and the preparations, submissions, review and approvals of the remaining O&M manuals, “as builts” and project closeout documents will take place.

**East Avenue Ejector Station**
The construction and construction services contracts are to be advertised in Q3 2018. The County had encountered delays in procuring a construction manager for this project due to objections from a third party, CSEA Local 830. The County has decided to move forward with construction management services procurement concurrent with ongoing negotiations with CSEA. The NTP is currently projected for 4/15/2019. A milestone modification request will be submitted by the County to the Office of General Counsel.

**Level 1 BNR**
The current forecast remains three months beyond the milestone date. Due to special limitations in the existing room that is to house a new MCC, a redesign of the MCC was required. This redesign resulted in a significant delay in the fabrication and delivery of the new MCC. In order to mitigate this delay, a change order is being prepared to provide temporary power to the new mixers to allow installation and testing to remain on schedule.

**Progress This 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.

**Expected Progress Next Quarter:**
- Aeration Tank No.5
  - Install Baffle Walls
  - Install diffusing equipment
  - Install mixer support and mixers.
  - Install instrumentation.
  - Install conduit/wire and interim power to feed equipment in AT5.
  - Test all the equipment install and restore tank operations.
- Aeration Tank No.4
• Take Tank out of operation and clean the tank.
• Conduct structural repair.
• Replace valves and expansion joints for the existing process air pipe.

• Pipe Gallery: Continue to install SWAS Pipe from Aeration Tanks to standpipe location.

• Final Settling Tanks (FST)
  • Continue to take FST out of service in order. (No.6, 5, 4, 3, 2, 1)
  • Clean each FST.
  • Install wood baffles and FRP baffles in each tank.
  • Conduct structural repair and MIC coating in each RAS Box accordingly.
  • Install FRP Trough in FST No.7 and No.8.

**Sidestream Deammonification**

Not yet in the construction phase. This project is expected to be awarded and NTP will be issued upon final procurement of a Construction Management consultant. The County had encountered delays in procuring a construction manager for this project due to objections from a third party, CSEA Local 830. The County has decided to move forward with construction management services procurement concurrent with ongoing negotiations with CSEA.

The NTP is currently projected for 10/22/2018 based on the award of the construction contract to the lowest responsive bidder. The construction phase of this project was bid on 1/9/2018 however, due to the extended period between the bid and potential NTP date, the construction contractor is reluctant to accept award of the contract at its bid price due to cost escalation. The County is in discussions with the contractor regarding the award of the contract. A milestone modification request will be submitted by the County 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.

While the County continues to work with the City of Long Beach to develop an economically viable agreement, the County continues to move forward with components of the interconnection, such as the Austin Blvd force main, for which the County has made a WQIP grant application.
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 Influen</td>
<td>June 2024</td>
</tr>
<tr>
<td>Wastewater from Bay Park WWTP to Cedar Creek WWTP</td>
<td></td>
</tr>
</tbody>
</table>

Progress This Quarter:
The County advertised the RFP for preliminary design services and received proposals.

Expected Progress Next Quarter:
The County will evaluate the proposals, select a consultant and proceed with awarding the contract.

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. The County does not believe that the Diversion Project Report referred to in this Appendix is the same as that referred to in section III.A. A request for clarification of this apparent discrepancy will be addressed by a submittal to the Office of General Counsel.

Per Section VI of the Agreement, it is not the responsibility of the County to report on work performed by the State. The project is now to be executed by the State under the Design-Build delivery method, therefore the slip lining milestone would fall under the State’s purview.
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 2018
2. Finalize RFP - end of September 2018
3. Advertise RFP - Mid October 2018 to mid-November 2018
4. TRC makes selection - End of November 2018
5. RD/ROA approved - Mid December 2018
6. Package approved by Admin in ECRS - end of December 2018
7. Legislative Rules Calendar – January 2019
8. Comptroller and NIFA approval of Contract - Mid February 2019
10. Design Term 9 to 12 months
VIII.0
Certification of Completed Activities

The following table lists the activities for which certification of compliance were 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 second quarter of 2018, no community meetings were held. There were no complaints from the community in this period. A ponding issue on Harbor Road was raised during the March 27th community meeting, and this was addressed this quarter by lowering a stormwater catch basin.
X.0

Attachments

None
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.

<table>
<thead>
<tr>
<th>Vincent Falkowski, PE, PMP, CCM</th>
<th>Deputy Commissioner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permittee (Per CRF 122.22)</td>
<td>Title</td>
</tr>
<tr>
<td>![Signature]</td>
<td>7/30/2018</td>
</tr>
<tr>
<td>Signature</td>
<td>Date Signed</td>
</tr>
</tbody>
</table>