

WARWICK SEWER AUTHORITY
Quarterly Report to City Council
On January 18, 2017

WSA Budget

See attached line item budget report for FY17 to date as of January 4th (approximately 51% of fiscal year complete). In summary:

- Revenues -- \$10,488,758 (49%)
- Expenses -- \$14,410,858 (67%)

Please note that debt service payments are made twice a year (September and April) with the most substantial principal payments due in September. With the WSA having only about one quarter's worth of revenue on account in September, the City makes the debt service payments and seeks subsequent reimbursement from the Sewer Fund throughout the fiscal year. The above percentages represent a typical snapshot of the WSA budget at this time of year. The WSA continues to study its rates and is planning for when it will be able to start accumulating funds in a debt service reserve account so that monies are available for the large debt service payments due in September.

Major WSA Board Actions in Last Quarter

At the October Board meeting, the WSA approved the direct purchase of \$311,900 in original equipment manufacturer (OEM) parts and equipment to replace the mechanical solids removal system (flights and chains) to rehabilitate WSA's two primary clarifiers. The WSA did solicit pricing from another manufacturer but found the OEM/supplier could provide the equipment more quickly at a better price. This project is being fast-tracked in order to minimize possible impacts on compliance with seasonal nutrient limits that will be in effect April 1st. While the equipment is on order, the WSA put out a request for public bids for construction/installation of this new treatment facility equipment; bid proposals will be opened on January 6th. The Board is expected to consider recommendations for the bid award at a Special meeting on January 17th.

Also in October, the Board authorized the signing of a Memorandum of Agreement (MOA) with the Narragansett Indian Tribe regarding compliance with the National Historical Preservation Act.

In November, the Board spent some time discussing various collection system infrastructure improvement projects including the Cedar Swamp force main assessment and repairs to the pipe under the East Avenue bridge as well as ongoing efforts to abate odors upstream from the Cedar Swamp pumping station. November was the last meeting for Board Member Steven Sylven, P.E. who resigned because he was moving out of the City. In December, the Mayor recommended Warwick resident Tina Moretti to fill Mr. Sylven's unexpired term on the Board.

In December, the Board approved a contract with CWL O&M Solutions, LLC for six months of specialized services in support of the development and implementation of WSA's collection system Capacity Management Operations & Maintenance (CMOM) program as required by the

2007 Administrative Order of the U.S. Environmental Protection Agency (EPA). Also in December, the WSA's rate consultant, Dave Bebyn, CPA, of B&E Consulting LLC presented his analysis and recommendations related to fair and equitable sewer assessment methods and rates for future sewer construction projects with authorized bond funding. There were many questions and much discussion on this topic and a small committee with two Board members, legal counsel and administrative staff is to be formed. The first meeting is scheduled for January 17th prior to the Special meeting of the Board at 5:30 PM. The WSA has already received comments and suggestions for sewer assessment regulations, including from the Warwick Wildlife and Conservation Committee, concerned about preserving open space.

"WSA Rules and Regulations" was added to the Director's Report portion of the WSA Board meeting agenda to provide regular updates on the status of the rewriting of the regulations. At this time, WSA legal counsel is continuing to review recommended format changes.

Treatment Facility Operations and Maintenance

The treatment facility continues with the process of starting up and troubleshooting the new ACTIFLO® phosphorus removal system, now slated for March 31st. With the new phosphorus discharge limit in effect on April 1st, WSA staff is focused on getting the ACTIFLO® process operating and successfully passing required performance testing. WSA management has kept regulators informed of the progress.

Flows to the treatment facility continued their downward trend, with monthly averages under 4.5 million gallons per day since June (versus plant capacity of 7.7 mgd). See attached graph of treatment facility flows since 2010.

Contract 91 (Treatment Facility Construction)

Construction on the new phosphorus removal process and associated facility upgrades is about 98% complete at this time. The most recent progress report from AECOM has been included with this report. Issues associated with the start-up of the ACTIFLO® process continue with the WSA Board extending the contract for substantial completion to March 31, 2017.

Contract 91A (Levee Improvements)

The most recent progress report from PARE Corporation has been included with this report. Although the project is now very close to being completed, the WSA requested an extension on the FEMA grant to June 30, 2017, to allow for loaming and seeding of the levee in the spring.

CONTRACT 91/91A EXPENSE SUMMARY (as of December 31, 2016)

Contractor	Original Contract Amount	Change Orders or Amendments	Total Contract Amount	Amount Paid to Date	%	Contract Amount Remaining
AECOM	\$ 1,803,900.00	\$ 79,865.00	\$ 1,883,765.00	\$ 1,615,852.82	85.8%	\$ 267,912.18
PARE	\$ 78,810.00	\$ 196,900.00	\$ 275,710.00	\$ 166,830.92	60.5%	\$ 108,879.08
Hart	\$14,479,000.00	\$ 784,655.17	\$15,263,655.17	\$14,644,045.28	95.9%	\$ 619,609.89
DeGregorio	\$ 2,465,460.00	\$ -	\$ 2,465,460.00	\$ 768,051.05	31.2%	\$1,697,408.95

Change Order No.	Date	Amount	Reason
1	10/23/2014	\$ 4,051.00	Raise drainage structure in levee for maintenance/access
2	11/20/2014	\$ 21,919.20	Additional clearing of area adjacent to Route 95 to facilitate levee maintenance
3	10/23/2014	\$ 22,247.07	Add drainage to north side of Animal Shelter
4	2/26/2015	\$(530,639.15)	Adjustments to Bid Item No. 8 for floodwall installation
6	12/18/2014	\$13,198.87	Modifications to sludge grinder pump piping
7	2/26/2015	\$ 911.05	Increase grating area
8	3/26/2015	\$ (35,332.07)	Junction chamber relocation/reconfiguration
10	7/23/2015	\$ 29,151.29	Fiber optic line reroute
11	6/18/2015	\$ 40,100.20	PCB removal work
12	5/20/2015	\$ 3,472.42	Upgraded grinder pump
13	11/19/2015	\$ 58,240.18	Phosphorus analyzers
14	6/18/2015	\$ 61,547.41	New frac tank for sludge storage
15	7/23/2015	\$ 39,576.68	Pre-stressed concrete cylinder pipe
16	9/17/2015	\$ 4,819.68	Extend low pressure scum line
17	10/22/2015	\$ 59,433.79	Clarifier concrete repairs
18	11/19/2015	\$ 9,771.27	Center clarifier electrical work
19	10/22/2015	\$ 14,643.07	Hydrocone modifications
22	11/5/2015	\$(357,276.00)	Credit for levee work
26	11/5/2015	\$ 644,375.00	Phase I levee construction
27	11/5/2015	\$ 635,850.00	Phase II levee construction
31	4/28/2016	\$ -	TIME EXTENSION -- substantial completion to June 30, 2016
32	<i>pending</i>		Seal water piping for propellor pumps
35	6/23/2016	\$ -	TIME EXTENSION -- substantial completion to October 31, 2016
36	9/22/2016	\$ 35,100.00	Install new mixer supplied by Kruger
37	8/25/2016	\$ 911.05	Additional signage
39	7/28/2016	\$ 8,583.16	Relocate drainage swale for Phase II levee
41	10/27/2016	\$ -	TIME EXTENSION--substantial completion to December 31, 2016
42	12/15/2016	\$ -	TIME EXTENSION -- substantial completion to March 31, 2017
Total Change Orders:		\$ 784,655.17	

Sewer Extension Planning & Construction (projects included in \$33 million bond authorization)

Governor Francis Farms Phase III (Contract 85 B) – The most recent progress report has been included with this report.

East Natick Phase III/O'Donnell Hill (Contract 69 A) – The most recent progress report has been included with this report.

Northwest Gorton Pond (Contract 88) – Progress is being made in advancing the engineering design of this project. The most recent progress report has been included with this report.

Bayside (Contracts 86A & B) – The most recent progress report has been included with this report. While waiting on the fully-executed MOA for this project, the design engineers will begin the process of identifying customers' preferred sewer service locations which will be used to inform the remaining archaeological work. Letters to residents of the area are expected to be sent out in January.

See attached Construction Project Data Table for a summary of information related to projects with revenue bond funding authorization.

Warwick Sewer Authority FY17 Budget Report

Fund 80 - Sewer Operations, Maintenance, and Administration

As of January 4, 2017 (51% of fiscal year complete)

	FY17 Budget	Transfers/ Adjustments	Revised Budget	Expensed/ Received as of January 4	% Expended/ Collected
Personnel					
Sick Time & Other Leave	\$0		\$0	\$10,344	0.00%
Salaries	\$2,209,822		\$2,209,822	\$741,982	33.58%
Overtime	\$65,000		\$65,000	\$49,198	75.69%
Overtime Storm/Snow	\$10,000		\$10,000	\$1,682	16.82%
Easement Overtime	\$20,000		\$20,000	\$4,277	21.39%
Temporary Services	\$7,000		\$7,000	\$4,843	69.19%
Fringe Benefits	\$950,804		\$950,804	\$0	0.00%
Commodities					
Office Supplies & Equipment	\$11,800		\$11,800	\$4,727	40.06%
Print, Bind & Reproduction	\$18,200		\$18,200	\$5,232	28.75%
Advertising	\$3,500		\$3,500	\$0	0.00%
Postage	\$35,000		\$35,000	\$3,518	10.05%
Laboratory Supplies	\$22,500		\$22,500	\$9,450	42.00%
Gasoline	\$50,000		\$50,000	\$17,853	35.71%
Natural Gas	\$44,000		\$44,000	\$14,330	32.57%
Electricity	\$600,000		\$600,000	\$287,305	47.88%
Supplies - Safety Equipment	\$6,500		\$6,500	\$2,383	36.66%
Chemicals - Polymer	\$120,000		\$120,000	\$36,404	30.34%
Chemicals - Chlorine	\$54,000		\$54,000	\$22,302	41.30%
Chemicals - Dechlor	\$39,000		\$39,000	\$12,470	31.97%
Chemicals - Odor Control	\$207,000		\$207,000	\$56,595	27.34%
Chemicals - Alum	\$86,000		\$86,000	\$23,472	27.29%
Chemicals - Caustic	\$169,000		\$169,000	\$57,316	33.91%
Clothing	\$8,000		\$8,000	\$2,867	35.84%

	FY17 Budget	Transfers/ Adjustments	Revised Budget	Expensed/ Received as of January 4	% Expended/ Collected
Maintenance Materials	\$100,000		\$100,000	\$46,097	46.10%
Small Tools	\$3,000		\$3,000	\$1,757	58.57%
Deduct Meters	\$5,000		\$5,000	\$1,112	22.24%
Grinder Pumps	\$100,000		\$100,000	\$50,295	50.30%
Easement Maintenance	\$7,500		\$7,500	\$3,815	50.87%
Services					
Travel	\$500		\$500	\$201	40.20%
Training & Education	\$7,500		\$7,500	\$9,767	130.23%
Telephone	\$22,000		\$22,000	\$8,069	36.68%
Water Usage	\$8,000		\$8,000	\$8,772	109.65%
Equipment Repair	\$80,000		\$80,000	\$29,263	36.58%
Tax Sale	\$25,000		\$25,000	\$0	0.00%
Insurance	\$210,358		\$210,358	\$0	0.00%
Auto Maintenance	\$22,000		\$22,000	\$10,548	47.95%
Service Contracts	\$83,945		\$83,945	\$40,091	47.76%
Insured Accidents	\$0		\$0	\$0	0.00%
Professional Services	\$84,000		\$84,000	\$19,624	23.36%
Construction Services	\$135,000		\$135,000	\$90,972	67.39%
Sludge Removal	\$955,200		\$955,200	\$339,074	35.50%
Administration	\$114,158		\$114,158	\$0	0.00%
DEM - User Fees & Permits	\$3,370		\$3,370	\$370	10.98%
Testing & Lab Samples	\$46,400		\$46,400	\$13,475	29.04%
Engineering Services	\$80,000		\$80,000	\$37,029	46.29%
Sewer Connection Grants	\$41,100		\$41,100	\$0	0.00%
Public Outreach	\$4,000		\$4,000	\$85	2.13%
Services - Other	\$49,800		\$49,800	\$16,776	33.69%
Other Expenditures					
West Warwick WWTF	\$47,000		\$47,000	\$10,791	22.96%

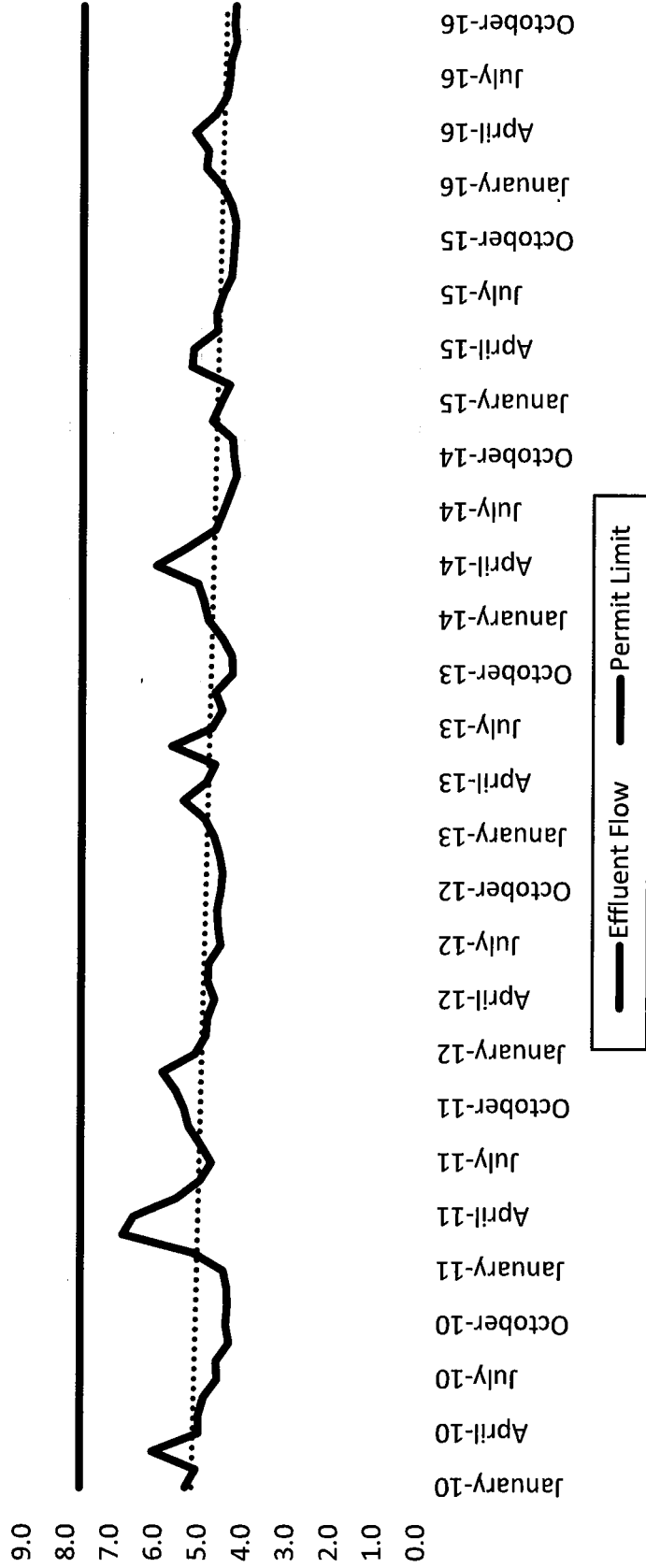
	FY17 Budget	Transfers/ Adjustments	Revised Budget	Expensed/ Received as of January 4	% Expended/ Collected
Debt Service					
Paying Agent Fees	\$12,600		\$12,600	\$2,000	15.87%
Renew & Replacement	\$10,000		\$10,000	\$0	0.00%
Debt Service	\$10,735,384	\$456,000	\$11,191,384	\$11,011,384	98.39%
Debt Interest	\$2,276,232		\$2,276,232	\$1,166,450	51.24%
Sewer Connection Loan Default	\$5,000		\$5,000	\$0	0.00%
Infrastructure Replacement	\$884,945	(\$456,000)	\$428,945	\$0	0.00%
Misc Capital Expenditures	\$550,000		\$550,000	\$124,491	22.63%
Total Expenses	\$21,446,118		\$21,446,118	\$14,410,858	67.20%

	FY17 Budget	Transfers/ Adjustments	Revised Budget	Expensed/ Received as of January 4	% Expended/ Collected
Revenues					
Industrial Pretreatment Fees	\$359,000		\$359,000	\$108,929	30.34%
Sewer Usage Fees	\$11,887,691		\$11,887,691	\$6,725,097	56.57%
Capital Account/Meters	\$5,000		\$5,000	\$1,578	31.56%
Energy Buyback Revenue	\$18,000		\$18,000	\$1,023	5.68%
Pretreatment Application Fees	\$6,000		\$6,000	\$4,175	69.58%
Sewer Service Charge	\$4,074,127		\$4,074,127	\$1,974,391	48.46%
Engineering Review Fees	\$6,600		\$6,600	\$4,200	63.64%
Sewer Assessment Fees	\$4,720,000		\$4,720,000	\$1,487,324	31.51%
Septage Dumping Fees	\$44,000		\$44,000	\$1,517	3.45%
Sewer Insurance	\$8,400		\$8,400	\$2,823	33.61%
Lease Income	\$41,100		\$41,100	\$0	0.00%
Pretreatment Fines	\$0		\$0	\$750	0.00%
Miscellaneous Income	\$4,000		\$4,000	\$3,085	77.13%
Sewer Connection Permits	\$37,500		\$37,500	\$21,600	57.60%
Reimburse - Grinder Pumps	\$32,000		\$32,000	\$12,008	37.53%
Sewer Tax Title Revenue	\$25,000		\$25,000	\$0	0.00%
Interest on Investments	\$1,200		\$1,200	\$348	29.00%
Interest Income	\$175,000		\$175,000	\$139,030	79.45%
SLA Administrative Fee	\$500		\$500	\$300	60.00%
SLA Inspection Fee	\$1,000		\$1,000	\$580	58.00%
Total Revenues	\$21,446,118		\$21,446,118	\$10,488,758	48.91%

NOTES:

1. Depreciation expense of approximately \$1.5 Million will be added by auditors when preparing the Sewer Fund balance sheet.
2. Current balance in **Renewal & Replacement Fund** is approximately \$334,000 (with an additional \$2,000,000 due from Fund 80).
3. **Debt Service Reserve Funds** (created with a portion of the proceeds from all revenue bond loans) currently totals \$3,200,000 to be used for final years of loan payments (starting in about 10 years).
4. There are other smaller Funds established and maintained for various purposes including Inflow & Infiltration Fund approximately (\$165,000), Sewer Line Agency Fund (revolving account for miscellaneous sewer line extensions paid for by private developers and property owners, about \$250,000).

City of Warwick Wastewater Treatment Facility Flows (monthly averages, millions of gallons per day)



WARWICK SEWER AUTHORITY
CONTRACT 91: PHOSPHORUS REMOVAL UPGRADE / FLOOD
CONTROL AND MITIGATION
NOVEMBER/DECEMBER 2016 PROGRESS REPORT
December 9, 2016

This Progress Report summarizes activity between November 12, 2016 and December 9, 2016 on Contract 91: Phosphorus Removal Upgrade/Flood Control & Mitigation Project, and provides a four week look ahead.

Construction Progress

- Overall, the project is approximately 95%-99% complete; progress toward completion continues.
- Continued construction administration services such as reviewing and processing operations and maintenance manuals, contractor applications for payment, including reduction of retainage, and requests for substantial completion, excluding field observation services (which ended on 8/5/16);
- Phosphorus Building, Levee and Other Work:
 - All work is mostly complete; mixer and polymer pump installation is mostly complete; start-up of these components is ongoing. Contractor continued to address punch list/incomplete work items.

Four Week Look Ahead-Phosphorus Building and Other Work

- Continuation of punch/incomplete work items;
- Sampling program action items;
- Start-up commissioning of mixer and polymer pump.

List of Remaining Items

- Final submittal to building officials - completed;
- Preparation of record drawings – submittal received from contractor; drafting to start soon
- Mixer/polymer pump installation - completed; startup/commissioning to ongoing
- Operational modifications to plant processes to reduce phosphorus spikes to Actiflo
- Performance testing of Actiflo system – spring 2017
- Remaining punch list/incomplete work items – ongoing;
- Finalize facility operations and maintenance manual – draft nearing completion.

Substantial Completion

Several critical items that are needed to establish precursor conditions for performance testing of the Actiflo system are mostly, but not fully complete at this time. Those include:

- Startup and commissioning of the mixer and polymer pump;
- Upstream process adjustments by WSA staff to address phosphorus spikes and stabilize concentrations coming to the Actiflo system, including:
 - Converting the return activated sludge to the BNR from constant to variable speed to reduce nitrates in the anaerobic zone, which impacts biological removal of phosphorus thereby contributing to the spikes to the Actiflo system;
 - Relocating the ORP probes to the anaerobic zone, and SCADA changes that allow data collection and trending of this process as well as other processes.
 - Addition of alum after the BNR process.

Because of the time involved in implementing the above changes and because WSA staff has expressed concern about testing the Actiflo system now since this is the phosphorus off-season, there is a preference to postpone performance testing until the early spring both to match conditions operators will face when they start-up the Actiflo system in preparation for the seasonal limit, which begins on April 1st, and to prove out system modifications and operational changes.

In order to complete and accommodate the above, an extension of the substantial completion and final completion dates has been and will be necessary. A series of change orders extended these dates to 12/31/16 and 3/31/17, respectively; however, as noted, the work remaining will not allow substantial completion to be achieved by the December date. It is AECOM's recommendation that WSA extend the dates again to 3/31/17 and 6/30/17, respectively.

Warwick Wastewater Treatment Plant Levee Project
Warwick, Rhode Island
Pare Project No. 15069.00

Project Progress Update No. 19
Submitted December 12, 2016

PHASE II LEVEE PROJECT: CONSTRUCTION PHASE

The following activities have occurred since the last report:

Please refer to the daily field summaries for more detailed description of the work completed.

- Hart/Equality coordinated with the sub-contractor Union Fence to re-install disturbed portions of the perimeter fence and RIDOT Right-of-Way Fence.

November 16, 2016

- Union Fence was on-site to install Right-of-Way and perimeter fence posts.

PHASE III LEVEE PROJECT: CONSTRUCTION PHASE

The following activities have occurred since the last report:

Please refer to the daily field summaries for more detailed description of the work completed.

- Coordinated with DiGregorio regarding schedule
- Coordinated with the contractor relative to the retaining wall
- Received, reviewed, and processed project submittals
- Pare provided part and full-time Construction Observation November 14th through December 6th.
- Pare observed the following activities by DiGregorio Corporation (DC)

November 14, 2016

- DC continued to place Imported Low Permeability Fill on the crest of the existing levee (STA 13+25 and STA 15+50).
- DC continued to place riprap and bedding stone up to elevation 34.5 (STA 14+65 and 15+00).

November 15, 2016

- DC continued to place Imported Low Permeability Fill on the crest of the existing levee (STA 13+25 and STA 14+50).
- DC continued to place Imported Engineered Fill on the crest of the existing levee (STA 13+25 and STA 14+50).
- DC continued to place riprap and bedding stone up to elevation 34.5 (STA 14+65 and 15+50).

November 16, 2016

- DC continued to place Imported Low Permeability Fill on the crest of the existing levee (STA 13+35 and STA 14+55).
- DC continued to place Imported Engineered Fill on the crest of the existing levee (STA 14+00 and STA 14+55).
- DC continued to place riprap and bedding stone up to elevation 34.5 (STA 14+00 and 15+50).

November 17, 2016

- DC continued to place Imported Low Permeability Fill on the crest of the existing levee (STA 12+65 and STA 13+30).

- DC continued to place Imported Engineered Fill on the crest of the existing levee (STA 12+65 and STA 14+00).
- DC continued to place riprap and bedding stone up to elevation 34.5 (STA 13+50 and 14+00).

November 18, 2016

- DC continued to place Imported Low Permeability Fill on the crest of the existing levee (STA 12+55 and STA 13+50).
- DC continued to place Imported Engineered Fill on the crest of the existing levee (STA 12+60 and STA 13+40).
- DC continued to place riprap and bedding stone up to elevation 34.5 (STA 13+20 and 13+50).

November 21, 2016

- DC continued to place Imported Low Permeability Fill on the crest of the existing levee (STA 12+55 and STA 13+50).
- DC continued to place Imported Engineered Fill on the crest of the existing levee (STA 12+60 and STA 13+40).
- DC continued to place riprap and bedding stone up to elevation 34.5 (STA 13+20 and 13+50).

November 22, 2016

- DC began to place Imported Low Permeability Fill on the outbound slope of the existing levee (STA 8+50 and STA 9+50).
- DC continued to place riprap and bedding stone up to elevation 34.5 (STA 12+20 and 12+70).

November 23, 2016

- DC continued to place Imported Low Permeability Fill on the outbound slope and crest of the existing levee (STA 8+50 and STA 9+50).
- DC placed Engineered Fill on the outbound slope of the existing levee (STA 8+50 and STA 9+50).

November 25, 2016

- DC continued to place Imported Low Permeability Fill on crest of the existing levee (STA 8+50 and STA 9+50).
- DC placed Engineered Fill on the outbound slope and crest of the existing levee (STA 8+80 and STA 9+50).

November 28, 2016

- DC continued to place Imported Low Permeability Fill on the crest of the existing levee (STA 8+50 and STA 8+80).
- DC placed Engineered Fill on the outbound slope and crest of the existing levee (STA 8+50 and STA 8+80).
- DC began to excavate to the bottom of wall elevation between STA 16+50 and 17+25.

November 29, 2016

- DC continued to excavate to the bottom of wall elevation between STA 16+50 and 18+00.

November 30, 2016

- DC pumped out their wall excavation between STA 16+50 and 17+25.
- DC graded the inbound levee slope between STA 8+50 and 12+50.
- DC performed maintenance on silt fences around the stockpiled material.

December 5, 2016

- DC installed a second sump pump in the excavation for the wall between STA 16+50 and 17+25.

December 6, 2016

- DC placed engineered fill as foundation material for the proposed wall between STA 16+50 and 17+25.
- DC poured the leveling slab for the proposed wall between STA 16+50 and 17+25.

Two- Week Look Ahead

- **DiGregorio anticipates**
 - **Continue excavation for the retaining wall system (open up no more than 100 feet of excavation at any given time)**
 - **Begin delivery of pre-cast wall units to the site**
 - **Begin installation of pre-cast wall units between STA 16+50 and 19+41**
 - **Begin backfill of pre-cast wall between STA 16+50 and 19+41 with imported engineered fill and reused on-site materials excavated for the wall installation**
 - **Continue placement of low permeability fill**
 - **Continue placement of riprap slope protection**



December 12, 2016

PROGRESS REPORT
GOVERNOR FRANCIS PHASE III

Work this Period:

1. Administrative subdivision is proceeding. A lot description of the pump station property will be provided to the WSA by 12-16-16, and the subdivision plan will be submitted to the WSA, Owner and City by 12-23-16 for review.
2. RICRMC Coastal Assent Application is under review. RICRMC received letter of no effect on any significant cultural resource from RIHPHC on 11-29-16
3. The Certificate of Construction was submitted and is under review by RIDEM.
4. Parcel information has been provided to Keith White Appraisal to review and to determine appraisal needs to establish pump station lot value.

Design Schedule:

Tasks	2016												2017			
	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan.	Feb	Mar	Apr		
Final Design																
• Plans and Specifications	█	█	█	█												
• Pumping Station																
- Civil				█												
- Mechanical				█												
- Electrical				█												
• Utility Company Reviews	█	█	█	█	█	█	█	█	█	█						
• Land Acquisition	█	█	█	█	█	█	█	█	█	█	█	█	█	█		
• RIDEM Order of Approval				█	█	█	█	█	█	█	█	█	█	█		
• RIDEM RICRMC Approval					█	█	█	█	█	█	█	█	█	█		
Construction Bid Documents								█	█	█	█	█	█	█		
Advertise, Bids & Award											█	█	█	█		
Construction																

Legend

█	GRA - Tasks
█	WSA - Tasks
█	Agency Reviews
□	Contractor



PROGRESS REPORT
EAST NATICK -- PHASE 3 (O'DONNELL HILL)

DATE DECEMBER 3, 2016
PROJECT NUMBER 04635.00
INVOICE NUMBER N/A

PROFESSIONAL SERVICES FROM NOVEMBER 6, 2016 TO DECEMBER 3, 2016

PROJECT SUMMARY:

FILE REVIEW

Completed

BASE PLAN MODIFICATIONS

Completed

DESIGN PLAN, SPECS & EST. MOD.

Completed

ADDITIONAL SERVICES BEYOND SCOPE OF CONTRACT

No work this period

CONSTRUCTION BIDDING SERVICES

No work this period

WETLANDS BIOLOGIST

Completed

PRINTING

No work this period

CONTRACT AMENDMENT #1

Completed

CONTRACT AMENDMENT #2

No work this period

CONTRACT AMENDMENT #3

No work this period



PROGRESS REPORT
SANITARY SEWER IMPROVEMENTS – NORTHWEST GORTON POND

DATE DECEMBER 3, 2016
PROJECT NUMBER 6342.01
INVOICE NUMBER 110593

PROFESSIONAL SERVICES FROM NOVEMBER 6, 2016 TO DECEMBER 3, 2016

PROJECT SUMMARY:

FINAL DESIGN – PLAN PREPARATION

No work this period

FINAL DESIGN – SPECS & QUANTITIES

Ongoing Preparation of Specifications & Quantities for Project

FINAL DESIGN – PUMP STATION & FORCE MAIN PLANS

No work this period

FINAL DESIGN REIMBURSABLES

No work this period

CONTRACT AMENDMENT #4

FILE REVIEW AND PROJECT RESTART

Completed project re-start, reviewed current design plans, adapted existing roadway profiles

LAND SURVEYS

No work this period

AERIAL MAPPING

No work this period

PLAN PREPARATION OF COLLECTION SYSTEM

Prepared sewer design and sewer plans to accommodate current project. Currently progressing through sewer plans.

CONTRACT SPECS, QUANTITIES & ESTIMATE

No work this period

(2) PUMP STATION AND FORCE MAIN DESIGN PLANS / DETAILS

No work this period



Gordon R. Archibald, Inc.
Civil and Environmental Engineers

December 12 2016

PROGRESS REPORT
BAYSIDE SEWERS PROJECT

Work this Period:

1. WSA and EPA are coordinating with the Tribe on the Memorandum of Agreement (MOA).

PROJECT STATUS Updated Since Last Report

Projects Included in \$33 Million Revenue Bond Authorization

Project Name	Design Completion Date	Design Percent Complete	Design Certificate of Approval	Construction Certificate of Approval	Order of Approval	Construction Completion Date	Construction Percent Complete
East Natick III (O'Donnell Hill)	Preparing to bid in 2017	95%	N/A	5/16/16	N/A		
Northwest Gorton Pond	Still Planning for 2017	75%	N/A				
Governor Francis III	Preparing to bid in 2017	95%	8/4/2008	12/27/2016	9/19/2016		
Bayside 86A-1 (Tidewater Interceptor)	05/01/15	100%	5/16/2006	7/7/2015	7/7/2015	09/04/15	100%
Bayside 86B (Tidewater Interceptor and Lateral Pressure Sewers)	Still Planning for 2017	20%	5/16/2006				

Projects Included in \$23 Million Revenue Bond Authorization

Project Name	Design Completion Date	Design Percent Complete	Design Certificate of Approval	Construction Certificate of Approval	Order of Approval	Construction Completion Date	Construction Percent Complete
AWT Phosphorus Upgrade	12/31/13	100%	N/A	3/14/2014	4/3/2013		98%
AWT Levee Improvement	12/31/13	100%	N/A	3/14/2014	4/3/2013		85%

PROJECT EXPENSES

Projects Included in \$33 Million Revenue Bond Authorization

Project Name	Design Expenditures	Land Acquisition	Construction Expenditures	Inspection Expenditures	Traffic Details Expenditures	Miscellaneous Expenditures	Expenditures to Date	RI Infrastructure Bank Payments	To be Reimbursed by FEMA
East Natick III (O'Donnell Hill)	\$28,697.50	N/A				\$800.00	\$29,497.50	\$4,537.50	N/A
Northwest Gorton Pond	\$237,795.83	N/A			\$1,427.43		\$239,223.26	\$0.00	N/A
Governor Francis III	\$199,703.39						\$199,703.39	\$33,300.22	N/A
Bayside 86A-1 (Tidewater Interceptor)	\$11,511.25	N/A	\$302,841.88	\$26,793.73	\$1,105.19	\$0.00	\$342,252.05	\$330,740.80	N/A
Bayside 86B (Tidewater Interceptor and Lateral Pressure Sewers)	\$436,773.33	N/A			\$24,094.21	\$103,687.32	\$564,554.86	\$564,554.86	N/A

Projects Included in \$23 Million Revenue Bond Authorization

Project Name	Design Expenditures	Land Acquisition	Construction Expenditures	Inspection Expenditures	Traffic Details Expenditures	Miscellaneous Expenditures	Expenditures to Date	RI Infrastructure Bank Payments	To be Reimbursed by FEMA
AWT Phosphorus Upgrade	\$749,457.85	N/A	\$12,368,221.05	\$1,615,852.82	\$0.00	\$448,190.96	\$15,181,722.68	\$14,970,136.71	N/A
AWT Levee Improvement	\$147,312.96	N/A	\$3,043,875.28	\$166,830.92	\$0.00	\$0.00	\$3,358,019.16	\$0.00	\$3,022,217.24

Cost of Issuance and Debt Service Reserve for all borrowing: \$1,751,432.42
 Total Bond Authorization Utilized: \$17,654,702.51
 Total Bond Authorization Remaining (of \$56 Million): \$38,345,297.49