

WARWICK SEWER AUTHORITY
Quarterly Report to City Council
October 17, 2016

WSA Budget

See attached line item budget report for FY17 to date as of August 31st (approximately 17% of fiscal year complete). In summary:

- o Revenues -- \$4,497,050 (21%)
- o Expenses -- \$2,477,812 (12%)

Please note that debt service payments are made twice a year (September and April) with the most substantial principal payments due in September.

Major WSA Board Actions in Last Quarter

Since the last quarterly report, the WSA welcomed a new Board member, Mr. John Justo. Per the WSA enabling legislation, the WSA Board of Directors reorganized at its July meeting electing Mr. Peter Ginaitt as Chairman and Mr. Gary Jarvis as Secretary.

Also at the July meeting, the Board heard a presentation by consulting engineer Arcadis who recently completed a study of WSA's Industrial Pretreatment Program (IPP) rates, charges, and fees. Such a study had not been done for over twenty years and there have been numerous regulatory and operational changes over time which have rendered the existing schedule obsolete. The study examined permit and permit application fees as well as surcharges assessed for high-strength wastewaters discharged to the treatment facility. In addition to the existing charges, the WSA asked Arcadis to investigate the feasibility of a flat surcharge fee for all food service entities (FSEs) which can contribute significant amounts of fats, oils, and grease (FOG) to the wastewater collection and treatment system.

The study (report and Power Point presentations available upon request) concluded that revisions to existing rates are required based on current program and treatment facility expenses. The study also recommended new surcharges for ammonia (a form of nitrogen) and phosphorus. The study found that the proposed flat surcharge fee for FSEs was unreasonable and could possibly discourage some establishments from being proactive with respect to minimizing their discharges of FOG. The WSA will be initiating customer outreach and public hearings regarding the proposed changes with the intent to implement the new fees and surcharge rates for the fiscal year beginning July 1, 2017. As part of the study, Arcadis provided WSA with the final rate model spreadsheet it developed which the WSA can use going forward to examine the IPP fees on a more regular basis.

At the August meeting, the WSA Board awarded the contract for analytical laboratory services (Bid No. 2017-097) to low-bidder Rhode Island Analytical Laboratories, Inc. The bid was done in collaboration with the Department of Public Works (DPW) to include unit pricing for water quality sample analyses required by the City's storm water consent agreement. The annual

expense associated with this contract is approximately \$42,000 for the WSA and \$9,000 for DPW based on the estimated number of samples required for the year.

Also in August, the Board authorized the expense for installing a new sludge transfer pump (Hart Engineering, not to exceed \$15,600) and a new heating, ventilation, and air conditioning (HVAC) system for the maintenance shop (Capwell's Heating and Air Conditioning, \$10,500). The Board accepted/approved a proposal from specialty contractor A&W Maintenance, Inc. of Carver, Massachusetts, to rehabilitate the severely deteriorated pipe under the East Avenue Bridge (over Interstate Routes 95 and 295) which services several significant commercial customers including the Rhode Island Mall and the Community College of Rhode Island. The work will involve cleaning and preparing the exterior of the cast iron pipe, applying a patented epoxy coating which will structurally enhance as well as protect the pipe from future corrosion, and replacing the pipe hangers. The work, already underway, is being coordinated with the Rhode Island Department of Transportation in concert with their maintenance work on this bridge.

In September, Councilman Ladouceur of Ward 5 spoke with the Board about the possibilities for sewerage the southern end of Warwick Neck. He explained the need for and his constituents' interest in having sewers to replace their cesspools and ageing/failing septic systems. The Board was very supportive of extending sewers to this area and willing to work with the Councilman on the best, most cost-effective way to construct the sewers. The area is in WSA's long-term Facility Plan but currently has no bond authorization.

Also in September, the Board approved a change order under Contract 91 (treatment facility and phosphorus removal upgrades) in the amount of \$38,255.99 for Hart Engineering to install a mixer (to be supplied by the manufacturer) to improve the performance of the new ACTIFLO® system. The Board approved the purchase of four motorized hoists (\$14,421.57 from USA Blue Book) to replace old ones that are well past their useful life. The Board approved the reconditioning of a critical spare switchboard breaker in the disinfection building (Watermark Electric, \$6,724 with a 2-year warranty) which was significantly less expensive than purchasing a new one (quote for almost \$18,000). Finally, the Board approved a three-year contract with G&K Services to provide employee uniforms/service as required by the Union contract. G&K was the low bidder at a cost of \$3,793 per year.

Treatment Facility Operations and Maintenance

The treatment facility continues with the process of starting up and troubleshooting the new ACTIFLO® phosphorus removal system. Considerable WSA staff effort has been expended working with the project engineer and contractor to determine the cause of the problems and the best solutions. A major issue is overnight fluctuations in the concentration of phosphorus entering the ACTIFLO® process. Proper dosing, delivery and mixing of treatment chemicals has not yet been achieved. The WSA requested an extension from the Rhode Island Department of Environmental Management (RIDEM) on the deadline for meeting the new 0.1 milligrams per liter phosphorus permit limit. RIDEM determined there was good cause and granted an extension for compliance to November 1st. However, as a result of problems experienced in starting up the new process, the WSA has had two permit violations: an exceedance of the

average monthly total nitrogen limit in June and an exceedance of the daily maximum discharge limit on CBOD in August.

Flows to the treatment facility continued their downward trend during the summer, now averaging 4.7 million gallons per day (versus plant capacity of 7.7 mgd).

Contract 91 (Treatment Facility Construction)

Construction on the new phosphorus removal process and associated facility upgrades is about 95% complete at this time. The most recent progress report from AECOM has been included with this report. As discussed, issues associated with the start-up of the ACTIFLO® process has delayed substantial completion.

Contract 91A (Levee Improvements)

The most recent progress report from PARE Corporation has been included with this report. As mentioned last quarter, the WSA Board awarded the bid for the last phase of construction of levee improvements (Phase III) to DiGregorio, Inc. in the amount of \$2,465,460. The Notice to Proceed was issued on August 11th and the work initiated shortly thereafter. At the time of this report, the contractor has made significant progress in the work required to raise the remaining 55% of the levee on the western side of the facility to the 500-year protection level.

CONTRACT 91 EXPENSE SUMMARY (as of September 30, 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	\$ 103,823.42	37.7%	\$ 171,886.58
Hart	\$14,479,000.00	\$ 784,655.17	\$15,263,655.17	\$13,953,484.14	91.4%	\$1,310,171.03

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
5	<i>reserved</i>		Steel sheeting proposal
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
9	<i>rejected</i>		Duplex strainer
10	7/23/2015	\$ 29,151.29	Fiber optic line reroute

Change Order No.	Date	Amount	Reason
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
20	<i>withdrawn</i>		Hydrocyclone relocation
21	<i>withdrawn</i>		New mower for levee
22	11/5/2015	\$(357,276.00)	Credit for levee work
23	<i>withdrawn</i>		Additional PCB floor thickness
24	<i>withdrawn</i>		PS sludge line
25	<i>pending</i>		Scum pipe hole core
26	11/5/2015	\$ 644,375.00	Phase I levee construction
27	11/5/2015	\$ 635,850.00	Phase II levee construction
28	<i>withdrawn</i>		Phase III levee construction
29	<i>pending</i>		Repair of site lighting
30	<i>pending</i>		Flowable fill of abandoned 48-inch pipe
31	4/28/2016	\$ -	TIME EXTENSION -- substantial completion to June 30, 2016
32	<i>pending</i>		Seal water piping for propellor pumps
33	<i>pending</i>		HVAC controls - fiber optic lines
34	<i>pending</i>		I-Client
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
38	<i>pending</i>		
39	7/28/2016	\$ 8,583.16	Relocate drainage swale for Phase II levee
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) – Following Board approval in July, WSA executed a contract amendment with design engineer Garofalo & Associates to complete the design of sewers for this neighborhood and prepare plans and specifications for construction. The updated project approach minimized the number of low-pressure services and added services for approximately 30 homes along Greenwich Avenue and on Centennial Street, Weber Avenue, and Clifford Street. 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. The final draft of the Memorandum of Agreement (MOA) between the WSA, the Narragansett Indian Tribe, U.S. Environmental Protection Agency and the Rhode Island Historical Preservation & Heritage Commission is circulating for review. The MOA sets forth the plan for protecting the significant archaeological, historical and cultural resources known to exist in this project area. This agreement will hopefully be discussed and approved at the WSA Board meeting in October so that the project design, including more (but much more limited) archaeological investigations, can proceed.

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 August 31, 2016 (16.7% of fiscal year complete)

	FY17 Budget	Expensed/ Received as of August 31	% Expended/ Collected
Personnel			
Sick Time & Other Leave	\$0	\$3,709	0.00%
Salaries	\$2,209,822	\$229,053	10.37%
Overtime	\$65,000	\$10,996	16.92%
Overtime Storm/Snow	\$10,000	\$592	5.92%
Easement Overtime	\$20,000	\$0	0.00%
Temporary Services	\$7,000	\$1,844	26.34%
Fringe Benefits	\$950,804	\$0	0.00%
Commodities			
Office Supplies & Equipment	\$11,800	\$3,116	26.41%
Print, Bind & Reproduction	\$18,200	\$292	1.60%
Advertising	\$3,500	\$0	0.00%
Postage	\$35,000	\$853	2.44%
Laboratory Supplies	\$22,500	\$618	2.75%
Gasoline	\$50,000	\$7,377	14.75%
Natural Gas	\$44,000	\$1,162	2.64%
Electricity	\$600,000	\$60,749	10.12%
Supplies - Safety Equipment	\$6,500	\$266	4.09%
Chemicals - Polymer	\$120,000	\$9,793	8.16%
Chemicals - Chlorine	\$54,000	\$6,258	11.59%
Chemicals - Dechlor	\$39,000	\$2,635	6.76%
Chemicals - Odor Control	\$207,000	\$10,171	4.91%
Chemicals - Alum	\$86,000	\$8,906	10.36%
Chemicals - Caustic	\$169,000	\$15,662	9.27%
Clothing	\$8,000	\$564	7.05%
Maintenance Materials	\$100,000	\$13,486	13.49%
Small Tools	\$3,000	\$0	0.00%
Deduct Meters	\$5,000	\$320	6.40%
Grinder Pumps	\$100,000	\$0	0.00%
Easement Maintenance	\$7,500	\$0	0.00%
Services			
Travel	\$500	\$0	0.00%
Training & Education	\$7,500	\$2,008	26.77%
Telephone	\$22,000	\$2,441	11.10%
Water Usage	\$8,000	\$0	0.00%
Equipment Repair	\$80,000	\$9,649	12.06%
Tax Sale	\$25,000	\$0	0.00%
Insurance	\$210,358	\$0	0.00%
Auto Maintenance	\$22,000	\$0	0.00%
Service Contracts	\$83,945	\$18,586	22.14%

	FY17 Budget	Expensed/ Received as of August 31	% Expended/ Collected
Insured Accidents	\$0	\$0	0.00%
Professional Services	\$84,000	\$5,874	6.99%
Construction Services	\$135,000	\$675	0.50%
Sludge Removal	\$955,200	\$72,026	7.54%
Administration	\$114,158	\$0	0.00%
DEM - User Fees & Permits	\$3,370	\$0	0.00%
Testing & Lab Samples	\$46,400	\$1,513	3.26%
Engineering Services	\$80,000	\$0	0.00%
Sewer Connection Grants	\$41,100	\$0	0.00%
Public Outreach	\$4,000	\$85	2.13%
Services - Other	\$49,800	\$3,966	7.96%
<i>Other Expenditures</i>			
West Warwick WWTF	\$47,000	\$0	0.00%
<i>Debt Service</i>			
Paying Agent Fees	\$12,600	\$1,000	7.94%
Renew & Replacement	\$10,000	\$0	0.00%
Debt Service	\$10,735,384	\$1,765,048	16.44%
Debt Interest	\$2,276,232	\$195,399	8.58%
Sewer Connection Loan Default	\$5,000	\$0	0.00%
Infrastructure Replacement	\$884,945	\$0	0.00%
Misc Capital Expenditures	\$550,000	\$11,120	2.02%
<i>Total Expenses</i>	\$21,446,118	\$2,477,812	11.55%

	FY17 Budget	Expensed/ Received as of August 31	% Expended/ Collected
Revenues			
Industrial Pretreatment Fees	\$359,000	\$233	0.06%
Sewer Usage Fees	\$11,887,691	\$3,519,348	29.60%
Capital Account/Meters	\$5,000	\$1,578	0.00%
Energy Buyback Revenue	\$18,000	\$0	0.00%
Pretreatment Application Fees	\$6,000	\$1,025	17.08%
Sewer Service Charge	\$4,074,127	\$917,705	22.53%
Engineering Review Fees	\$6,600	\$1,200	18.18%
Sewer Assessment Fees	\$4,720,000	\$0	0.00%
Septage Dumping Fees	\$44,000	\$1,517	3.45%
Sewer Insurance	\$8,400	\$1,136	13.52%
Lease Income	\$41,100	\$0	0.00%
Pretreatment Fines	\$0	\$0	0.00%
Miscellaneous Income	\$4,000	\$3,073	76.83%
Sewer Connection Permits	\$37,500	\$3,000	8.00%
Reimburse - Grinder Pumps	\$32,000	\$3,588	11.21%
Sewer Tax Title Revenue	\$25,000	\$0	0.00%
Interest on Investments	\$1,200	\$234	19.50%
Interest Income	\$175,000	\$43,413	24.81%
SLA Administrative Fee	\$500	\$0	0.00%
SLA Inspection Fee	\$1,000	\$0	0.00%
Total Revenues	\$21,446,118	\$4,497,050	20.97%

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 \$702,000 (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 (\$86,000), Sewer Line Agency Fund (revolving account for miscellaneous sewer line extensions paid for by private developers and property owners, about \$250,000).

WARWICK SEWER AUTHORITY
CONTRACT 91: PHOSPHORUS REMOVAL UPGRADE / FLOOD
CONTROL AND MITIGATION
AUGUST/SEPTEMBER 2016 PROGRESS REPORT
September 16, 2016

This Progress Report summarizes activity between August 20, 2016 and September 16, 2016 on Contract 91: Phosphorus Removal Upgrade/Flood Control & Mitigation Project, and provides a four week look ahead.

Construction Progress

- Overall, the project is at approximately 95%-99% complete; Progress being made toward completion.
- Continued construction administration services such as reviewing and processing shop drawings, operations and maintenance manuals, change order proposals and contractor applications for payment, excluding field observation services (which ended on 8/5/16);
- Phosphorus Building, Levee and Other Work:
 - All work is mostly complete; Actiflo process optimization is on hold pending results of the sampling program and installation of mixer. Contractor worked on punch list/incomplete work items;
 - Sampling program completed on 9/1; results received from laboratory; data currently under review;

Four Week Look Ahead-Phosphorus Building and Other Work

- Continuation of punch/incomplete work items;
- Results of sampling program and action items;
- Possible start of mixer installation.

List of Remaining Items

- Final submittal to building officials;
- Preparation of record drawings (red line mark-ups not received from contractor);
- Mixer installation;
- Performance testing and commissioning of Actiflo system;
- Remaining punch list/incomplete work items;
- Finalize facility operations and maintenance manual (a number of outstanding manufacturer O&M manuals needed).

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

Project Progress Update No. 16
Submitted September 19, 2016

PHASE II LEVEE PROJECT: CONSTRUCTION PHASE

The following activities have occurred since the last report:

- Pare continued coordinating with WSA and Hart relative to the work at Phase II.

PHASE III LEVEE PROJECT: CONSTRUCTION PHASE

The following activities have occurred since the last report:

- Coordinated with DiGregorio regarding schedule
- Conducted pre-construction meeting with DiGregorio for August 23rd
- Coordinated with the contractor relative to the retaining wall
- Received reviewed and processed project submittals
- Pare provided part and full-time Construction Observation on September 13, September 14, September 15, and September 16.
- Pare observed the following activities by DiGregorio Corporation (DC)

September 13, 2016

- DC loaded the vegetation that had previously been grubbed from the embankment and hauled it off site
- DC worked on the installation of the catch basin within the downstream area near 9+50.

September 14, 2016

- DC continued work at CB-001 near 9+50.
- DC stripped and stockpiled the loam from the downstream slope and downstream area from CB-23 to CB-20.
- DC began the work at CB-23.
- DC removed the existing CB-23 and removed the 12-inch drain line that ran from CB-23 and CB-22.
- DC began the work at CB-22.

September 15, 2016

- DC continued work at CB-23.
- DC continued work at CB-22.
- DC removed the existing toe drain line at CB-22 and the existing drain line between CB-22 and CB-23.
- DC placed a new CB-22.
- DC backfilled the area of the replaced toe drain line and removed drain line.

September 16, 2016

- DC continued work at CB-23.



- DC continued work at CB-22.
- DC excavated, removed, and backfilled the former drain line between CB-22 and CB-20.
- DC excavated and reset CB-20.
- DC installed and backfilled the new drain line between CB-22 and CB-23

Two- Week Look Ahead

- **Hart will continue and complete excavation and filling activities at Phase II and begin restoration**
- **DiGregorio anticipates**
 - **Completing drainage modifications w/e 9/23**
 - **Commence importing riprap and placing it along the northwestern portion of the levee**
 - **Commencing excavation at the northern junction of the previously completed work and the Phase III construction**



Gordon R. Archibald, Inc.
Civil and Environmental Engineers

September 16, 2016

PROGRESS REPORT
GOVERNOR FRANCIS PHASE III

Work this Period:

1. The Owner has revised the subdivision to include only 3 deeded lots. Accordingly, GRA revised the scope of services and resubmitted to the Owner. GRA is awaiting final Owner approval to begin work.
2. GRA responded to comments and resubmitted the Order of Approval to RIDEM. The application is currently in final review by RIDEM.
3. An application will be forwarded to RICRMC upon approval of the Order of Approval.

Design Schedule:

Tasks	2016											2017	
	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan.	Feb	
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 SEPTEMBER 10, 2016
PROJECT NUMBER 04635.00

PROFESSIONAL SERVICES FROM AUGUST 14, 2016 TO SEPTEMBER 10, 2016

PROJECT SUMMARY:

FILE REVIEW

Completed

BASE PLAN MODIFICATIONS

Completed

DESIGN PLAN, SPECS & EST. MOD.

95% complete

ADDITIONAL SERVICES BEYOND SCOPE OF CONTRACT

No work this period

CONSTRUCTION BIDDING SERVICES

No work this period

WETLANDS BIOLOGIST

Completed

CONTRACT AMENDMENT #3

Contacted homeowners at #2 and #6 Jambray Avenue to discuss easement for sewer main, meeting with homeowners on September 19.



PROGRESS REPORT
SANITARY SEWER IMPROVEMENTS – NORTHWEST GORTON POND

DATE SEPTEMBER 10, 2016
PROJECT NUMBER 6342.01
INVOICE NUMBER 110475

PROFESSIONAL SERVICES FROM AUGUST 14, 2016 TO SEPTEMBER 10, 2016

PROJECT SUMMARY:

FINAL DESIGN – PLAN PREPARATION

No work this period

FINAL DESIGN – SPECS & QUANTITIES

No work this period

FINAL DESIGN – PUMP STATION & FORCE MAIN PLANS

No work this period

CONTRACT AMENDMENT #4

FILE REVIEW AND PROJECT RESTART

Continued project re-start, reviewed current design plans

LAND SURVEYS

Completed survey services to complete an existing conditions plan with topography and utilities within additional service area

AERIAL MAPPING

Col-East completed aerial photogrammetric mapping of additional area

PLAN PREPARATION OF COLLECTION SYSTEM

No work this period

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

September 16, 2016

PROGRESS REPORT
BAYSIDE SEWERS PROJECT

Work this Period:

1. EPA is revising the Memorandum of Agreement (MOA) based on review comments. Final approval is being coordinated by EPA with NITHPO.

WSA Construction Project Data Table as of 9-30

As Of: 09/30/16

PROJECT STATUS

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)	Anticipated Spring 2016	95%	N/A	5/16/16	N/A		
Northwest Gorton Pond	Still Planning for 2017	20%					
Governor Francis III	Anticipated Summer 2016	95%	8/4/2008		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)	Anticipated in Early 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		95%
AWT Levee Improvement	12/31/13	100%	N/A	3/14/2014	4/3/2013		45%

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	\$213,363.33	N/A			\$1,427.43		\$214,790.76	\$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	\$11,923,984.10	\$1,615,852.82	\$0.00	\$448,190.96	\$14,737,485.73	\$14,525,899.76	N/A
AWT Levee Improvement	\$147,312.96	N/A	\$2,029,500.04	\$103,823.42	\$0.00	\$0.00	\$2,280,636.42	\$0.00	\$2,052,572.78

Cost of Issuance and Debt Service Reserve for all borrowing: \$1,751,432.42
 Total Bond Authorization Utilized: \$17,210,465.56
 Total Bond Authorization Remaining (of \$56 Million): \$38,789,534.44