

WARWICK SEWER AUTHORITY
Quarterly Report to City Council
July 18, 2016

WSA Budget

See attached line item budget report for the FY16 budget to date as of May 31st (92% of fiscal year complete). In summary:

- o Revenues -- \$19,346,845 (91%)
- o Expenses -- \$18,414,866 (87%)

Major WSA Board Actions in Last Quarter

The WSA Board of Directors has been busy, as usual, in the last quarter of the fiscal year with the budget, rates, and numerous capital purchases on the meeting agendas. The Board has been operating short-handed since April with Chairman Aaron Guckian formally resigning on June 2nd. The Mayor is prepared to expeditiously appoint a member to replace Mr. Guckian.

In April, the Board approved applications for Certificates of Approval for both the O'Donnell Hill (East Natick Phase 3) and the Levee Improvements (Phase 3) required for State Revolving Fund borrowing (those certificates have subsequently been received). The Board voted to amend WSA's contract with Garofalo & Associates for construction-phase engineering services for O'Donnell Hill for an increase of \$108,000. The Board also allowed for the no-cost extension of the substantial completion date for Contract 91 to June 30th. Finally, the Board approved the purchase of new pumps for the Kilvert Street station (from Diversified Pump for \$10,375) and the Warwick Avenue station (from Grundfos Water Utility, Inc. for \$10,790) and awarded Bid #2017-5 for wastewater treatment chemicals to Evoqua Water Technologies (liquid calcium nitrate), Univar (liquid sodium hydroxide) and Shannon Chemical (potassium permanganate).

In May, the Board held a public hearing on the FY17 budget (May 12th). At its regular business meeting on May 19th, the Board heard a presentation by WSA's rate consultant on the results of a new 5-year review. Recommendations include:

1. Now that the City's general fund has been repaid, use existing rates to begin repaying WSA's renewal and replacement fund (used for existing infrastructure improvement projects and significantly depleted over the years), establish a debt service sinking fund and increase working capital.
2. Begin increasing the renewal and replacement charge on the sewer usage bills with rate increases in FY18 and again in FY20 resulting in an estimated increase of about \$8 per quarter for an average residential customer.
3. Continue to review/update rates on an annual basis.

No rate increases were recommended for the FY17 budget which the Board approved in the amount of \$21,446,118.

Also in May, the Board awarded the bid for Phase III of the levee improvements (Contract 91A) to DiGregorio, Inc. of Smithfield, Rhode Island in the amount of \$2,465,460 which will

complete the work to elevate the levee to protect the treatment facility from a 500-year flood event. The Board approved several capital improvement project (CIP) expenses including replacing a pump at the Alteiri Way pumping station, installing a spill containment/drainage system in the sludge loading area, and hose and attachments/tools for the new sewer line cleaning truck. Finally, the Board approved the final balancing change order for Contract 93 (Main Influent Rehabilitation) which decreased the final contract amount by \$33,341.02.

At the June meeting, the Board had extensive discussions regarding the status of the new phosphorus removal process (ACTIFLO®), specifically start-up issues being encountered during performance testing. In addition to process-related problems, the new phosphorus analyzers (recently installed under Change Order No. 13), have allowed WSA to continuously monitor phosphorus concentrations going in and leaving the ACTIFLO® unit. The new phosphorus data has revealed unusual spikes in phosphorus entering the process overnight which is not related to the ACTIFLO® process but impacts that process in terms of required chemical addition and automated process controls. Given these complications, the Board approved a no-cost extension of contract with Hart Engineering Corporation to October 31st and an additional \$79,865 for project engineer AECOM for additional construction-phase services.

Following a series of problems with WSA's activated sludge recycling pumps, equipment which is critical to the nitrogen removal process, the Board approved the purchase of four (4) new replacement pumps (for \$103,923 from Carlsen Systems LLC). The pumps being replaced are over 10 years old and run 24 hours a day when nitrogen limits are in effect (May 1st through October 31st). The Board also approved a one-year extension of Contract CC with D'Ambra Construction for miscellaneous sewer extension and emergency pipe repairs.

Treatment Facility Operations and Maintenance

The treatment facility was in full compliance with the WSA discharge permit through the end of May. The Discharge Monitoring Report (DMR) for June will not be available until July 15th but preliminary information indicates WSA will not meet the average monthly permit limit for nitrogen due to issues related to the start-up of the ACTIFLO® process and problems with the sludge recycling pumps. Flows to the treatment facility have been averaging 4.8 million gallons per day (plant capacity is 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 to October 31st as the equipment vendor, the contractor, the project engineer, and WSA staff continue to work together to resolve the problems.

Contract 91A (Levee Improvements)

The most recent progress report from PARE Corporation has been included with this report. As previously mentioned, 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 and work is expected to begin in July and be completed by the end of 2016.

CONTRACT 91 EXPENSE SUMMARY (as of June 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	\$1,465,664.75	77.8%	\$418,100.25
PARE	\$78,810.00	\$196,900.00	\$275,710.00	\$103,823.42	37.7%	\$171,886.58
Hart	\$14,479,000.00	\$740,060.96	\$15,219,060.96	\$13,329,617.56	87.6%	\$1,889,443.40

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
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>		
21	<i>withdrawn</i>		
22	11/5/2015	\$ (357,276.00)	Credit for levee work
23	<i>withdrawn</i>		
24	<i>withdrawn</i>		
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>		
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

Change Order No.	Date	Amount	Reason
32	<i>pending</i>		Seal water piping for propeller pumps
33	<i>pending</i>		
34	<i>pending</i>		
35	6/23/2016	\$ -	TIME EXTENSION -- substantial completion to October 31, 2016
Total of Change Orders:		\$ 740,060.96	

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. This project is the most shovel-ready of all the sewer extension projects.

Northwest Gorton Pond (Contract 88) -- Some work was initiated on this project in the past quarter. 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. Discussions continue with the U.S. Environmental Protection Agency and the Narragansett Indian Tribe to finalize the Memorandum of Agreement regarding the plan for protecting the significant archaeological, historical and cultural resources known to exist in this project area.

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

Warwick Sewer Authority FY16 Budget Report

Fund 80 - Sewer Operations, Maintenance, and Administration
As of May 31, 2016 (92% of fiscal year complete)

	FY16 Budget	Transfers/ Adjustments	Revised Budget	Expensed/ Received as of May 31	% Expended/ Collected
Personnel					
Sick Time & Other Leave	\$0		\$0	\$30,520	0.00%
Salaries	\$1,918,278		\$1,918,278	\$1,498,297	78.11%
Overtime	\$65,000		\$65,000	\$67,703	104.16%
Overtime Storm/Snow	\$10,000		\$10,000	\$9,829	98.29%
Overtime Easement	\$0		\$0	\$14,411	0.00%
Temporary Services	\$11,280		\$11,280	\$14,855	131.69%
Fringe Benefits	\$801,501		\$801,501	\$610,667	76.19%
City Contractual Obligation	\$57,548		\$57,548	\$0	0.00%
Commodities					
Office Supplies & Equipment	\$9,800		\$9,800	\$6,517	66.50%
Print, Bind & Reproduction	\$17,300		\$17,300	\$12,209	70.57%
Advertising	\$3,500		\$3,500	\$1,102	31.49%
Postage	\$35,075		\$35,075	\$26,453	75.42%
Laboratory Supplies	\$21,500		\$21,500	\$16,618	77.29%
Gasoline	\$50,000		\$50,000	\$14,272	28.54%
Natural Gas	\$44,000		\$44,000	\$33,715	76.63%
Electricity	\$575,000	\$25,000	\$600,000	\$581,148	96.86%
Supplies - Safety Equipment	\$6,500		\$6,500	\$5,532	85.11%
Chemicals - Polymer	\$142,000		\$142,000	\$60,854	42.85%
Chemicals - Chlorine	\$50,000		\$50,000	\$34,201	68.40%
Chemicals - Dechlor	\$50,000		\$50,000	\$20,358	40.72%
Chemicals - Odor Control	\$234,000		\$207,000	\$86,992	42.03%
Chemicals - Alum	\$62,500		\$62,500	\$15,970	25.55%
Chemicals - Caustic	\$185,000		\$185,000	\$123,564	66.79%
Clothing	\$8,000		\$8,000	\$5,670	70.88%
Maintenance Materials	\$100,000		\$100,000	\$74,669	74.67%
Small Tools	\$3,000		\$3,000	\$2,740	91.33%

	FY16 Budget	Transfers/ Adjustments	Revised Budget	Expensed/ Received as of May 31	% Expended/ Collected
Deduct Meters	\$5,000	\$2,000	\$7,000	\$4,862	69.46%
Easement Maintenance	\$10,000		\$10,000	\$7,388	73.88%
Services					
Travel	\$500		\$500	\$199	39.80%
Training & Education	\$7,500		\$7,500	\$5,173	68.97%
Telephone	\$19,500	\$2,000	\$21,500	\$16,382	76.20%
Water Usage	\$6,000	\$2,500	\$8,500	\$7,791	91.66%
Equipment Repair	\$80,000		\$80,000	\$53,192	66.49%
Tax Sale	\$50,000	(\$12,000)	\$38,000	\$0	0.00%
Insurance	\$207,818		\$207,818	\$155,863	75.00%
Auto Maintenance	\$15,000	\$7,500	\$22,500	\$19,836	88.16%
Service Contracts	\$75,950		\$75,950	\$50,930	67.06%
Insured Accidents	\$0		\$0	\$10,348	0.00%
Professional Services	\$91,000		\$91,000	\$34,900	38.35%
Construction Services	\$105,000		\$105,000	\$70,520	67.16%
Sludge Removal	\$900,800		\$900,800	\$685,074	76.05%
Administration	\$115,623		\$115,623	\$66,362	57.40%
DEM - User Fees & Permits	\$3,500		\$3,500	\$370	10.57%
Testing & Lab Samples	\$44,200		\$44,200	\$23,213	52.52%
Engineering Services	\$55,000		\$55,000	\$25,642	46.62%
Sewer Connection Grants	\$41,100		\$41,100	\$0	0.00%
Public Outreach	\$4,000		\$4,000	\$85	2.13%
Services - Other	\$62,800		\$62,800	\$35,500	56.53%
West Warwick WWTF	\$0		\$0	\$115,735	0.00%
Debt Service					
Paying Agent Fees	\$0		\$0	\$10,090	0.00%
Renew & Replacement	\$10,000		\$10,000	\$0	0.00%
Debt Service	\$10,439,661		\$10,439,661	\$10,953,633	104.92%
Debt Interest	\$2,724,237		\$2,724,237	\$2,433,994	89.35%
Sewer Connection Loan Default	\$5,000		\$5,000	\$0	0.00%
Infrastructure Replacement	\$1,136,697		\$1,136,697	\$0	0.00%
Misc Capital Expenditures	\$550,000		\$550,000	\$258,918	47.08%
Total Expenses	\$21,226,668		\$21,226,668	\$18,414,866	86.75%

	FY16 Budget	Transfers/ Adjustments	Revised Budget	Expensed/ Received as of May 31	% Expended/ Collected
Revenues					
Industrial Pretreatment Fees	\$359,000		\$359,000	\$283,673	79.02%
Sewer Usage Fees	\$11,800,000		\$11,800,000	\$11,723,911	99.36%
Capital Account/Meters	\$5,000		\$5,000	\$6,464	129.28%
Energy Buyback Revenue	\$3,000		\$3,000	\$16,072	535.73%
Pretreatment Application Fees	\$6,000		\$6,000	\$4,700	78.33%
Sewer Service Charge	\$3,965,000		\$3,965,000	\$4,152,899	104.74%
Engineering Review Fees	\$5,700		\$5,700	\$8,400	147.37%
Sewer Assessment Fees	\$4,725,518		\$4,725,518	\$2,759,400	58.39%
Septage Dumping Fees	\$36,000		\$36,000	\$41,311	114.75%
Sewer Insurance	\$8,400		\$8,400	\$11,939	142.13%
Lease Income	\$41,100		\$41,100	\$41,100	100.00%
Pretreatment Fines	\$0		\$0	\$7,700	0.00%
Miscellaneous Income	\$4,000		\$4,000	\$30	0.75%
Sewer Connection Permits	\$45,000		\$45,000	\$33,900	75.33%
Reimburse - Grinder Pumps	\$20,000		\$20,000	\$31,995	159.98%
Sewer Tax Title Revenue	\$50,000		\$50,000	\$0	0.00%
Interest on Investments	\$1,200		\$1,200	\$1,396	116.33%
Interest Income	\$150,000		\$150,000	\$215,511	143.67%
SLA Administrative Fee	\$500		\$500	\$1,000	200.00%
SLA Inspection Fee	\$1,250		\$1,250	\$5,444	435.52%
Total Revenues	\$21,226,668		\$21,226,668	\$19,346,845	91.14%

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
MAY/JUNE 2016 PROGRESS REPORT
June 17, 2016**

This Progress Report summarizes activity between May 14, 2016 and June 17, 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% complete;
- Continued construction administration services such as reviewing and processing RFIs, shop drawings, change order proposals and contractor applications for payment; including field observation and specialty staff site visits for Building Code compliance;
- Held Progress Meeting #24 on June 2nd with Hart and WSA;
- Phosphorus Building, Levee and Other Work:
 - Phosphorus Building: Interior trade work is mostly complete. Actiflo process optimization is ongoing. Miscellaneous minor interior work is ongoing. Exterior fencing is complete. Loaming and seeding is mostly complete;
 - Utility Building: Piping work is mostly complete; electrical work is ongoing;
 - Center Clarifiers: Restoration is complete;
 - Levee Work: Restoration of the headwall areas is mostly complete.

Four Week Look Ahead-Phosphorus Building and Other Work

- Continue interior work: Complete minor miscellaneous interior work; continue process optimization. Exterior work: complete final paving, loam and seed and bioretention basin work;
- Utility Building: Complete piping and electrical work; install exhaust and supply fans;
- Next progress meeting: TBD

Four Week Look Ahead-Levee

- Install ballast on drain manholes.

Substantial Completion

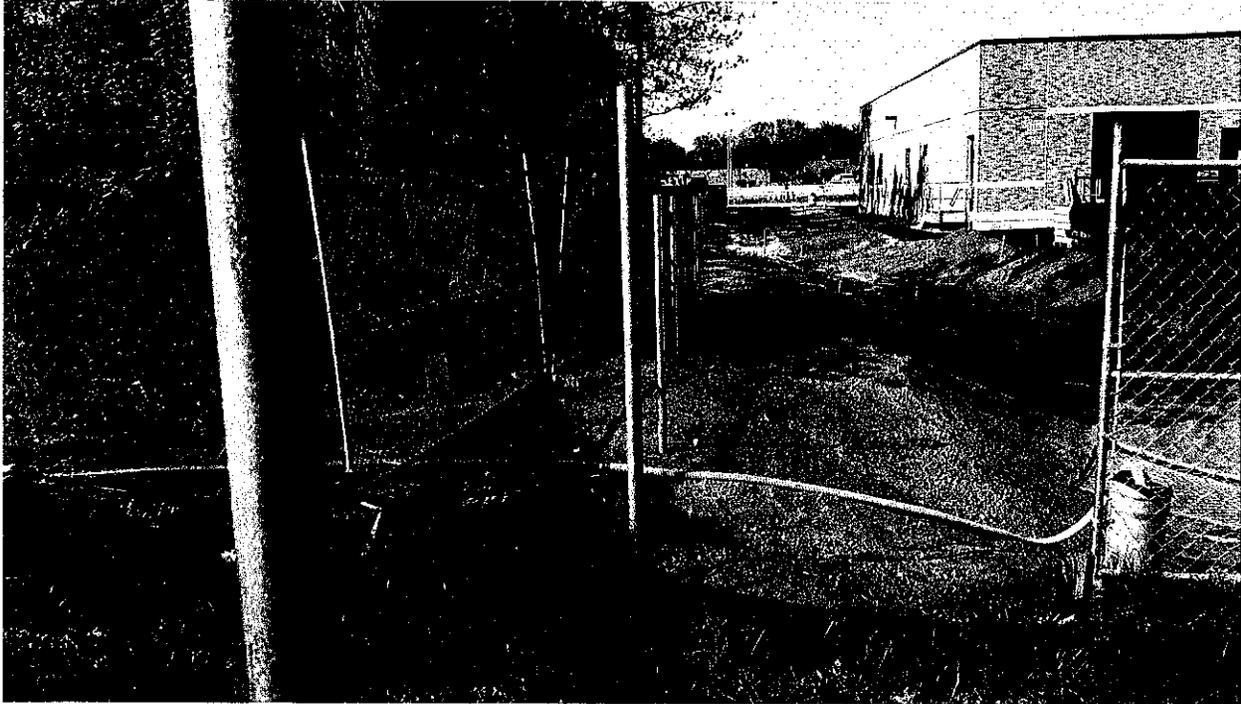
In recent weeks, Hart and Kruger (the phosphorus removal manufacturer) have encountered some process optimization challenges, and the Actiflo system has not consistently treated to and below the effluent phosphorus limit.

This is an emerging situation, so it is not possible to identify all of the causes at this time, but the construction team (Hart, Kruger, AECOM) is continuing to work together on the troubleshooting effort.

WSA operations and laboratory staff have also been very helpful and cooperative during this phase of the project.

Because the troubleshooting effort is ongoing and continues to evolve, the Contractor is unlikely to meet the revised substantial completion date of June 30, 2016. A time extension appears necessary.

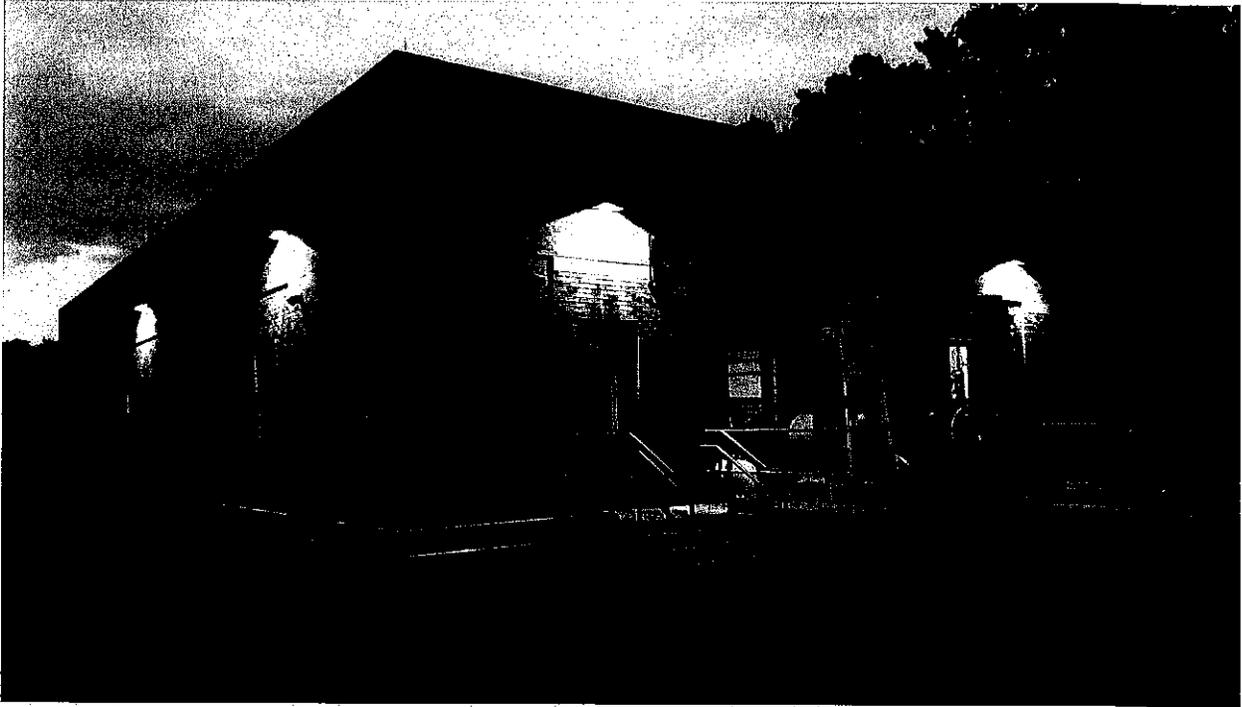
Progress Photographs



#1 Phosphorus Building - Exterior – Fence Restoration



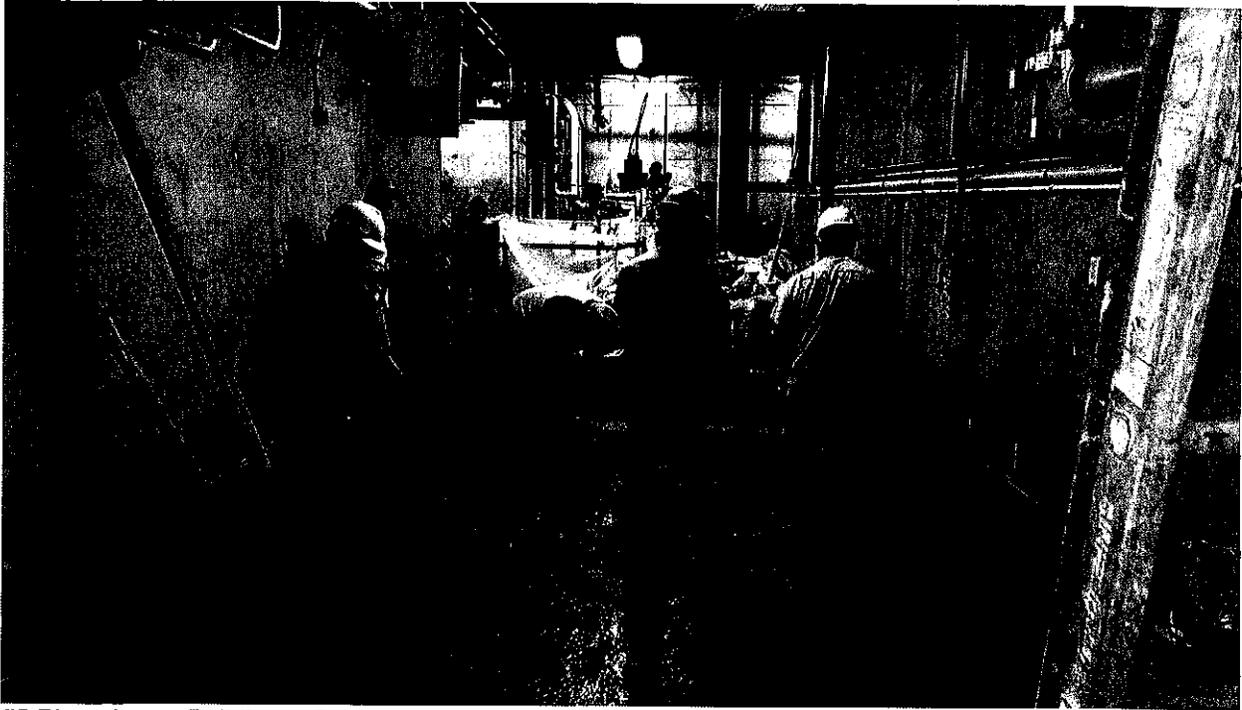
#2 Phosphorus Building – Exterior – Hydroseeding



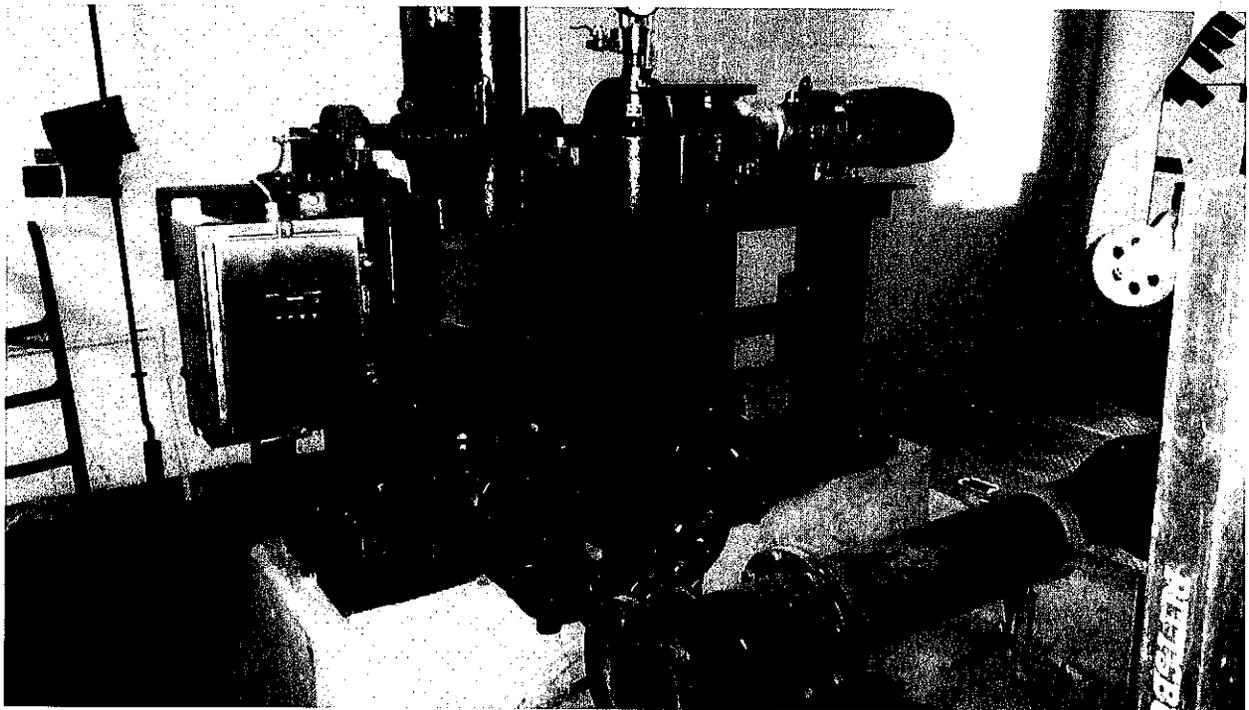
#3 Phosphorus Building - Exterior - Lighting



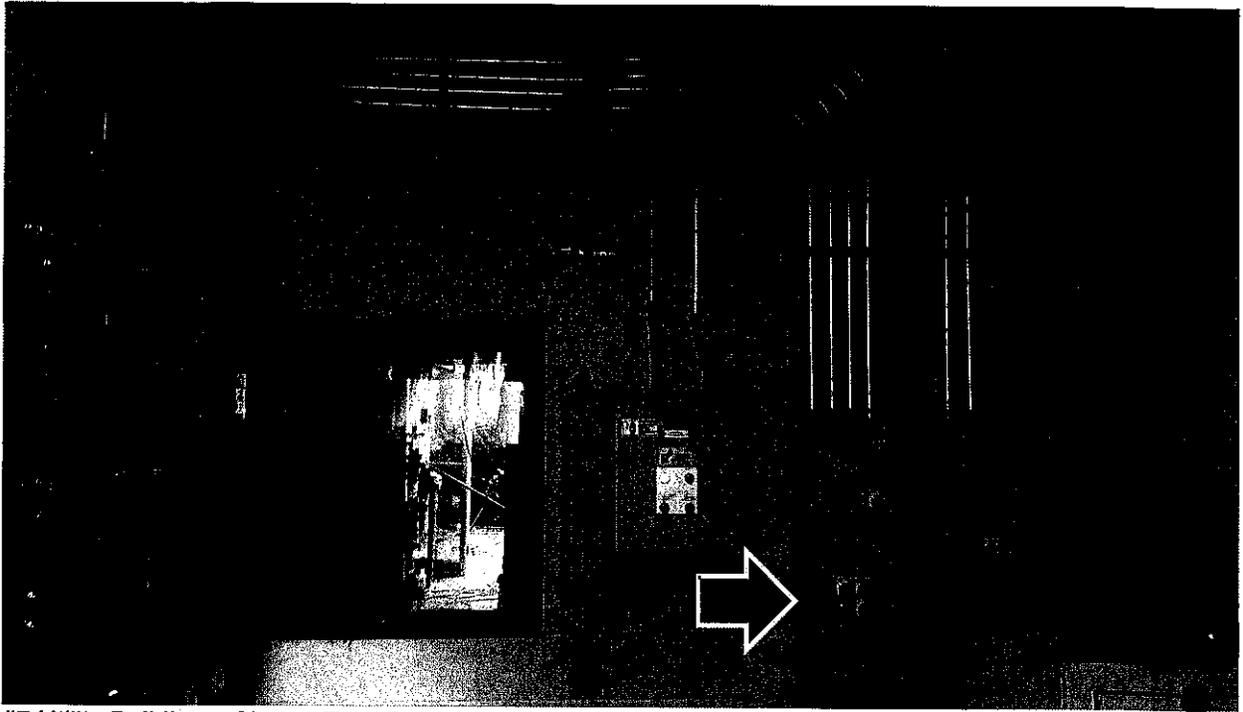
#4 Phosphorus Building - Ground Floor - Preparations for Concrete Topping



#5 Phosphorus Building – Ground Floor – Placing Concrete Topping



#6 Utility Building – Painting of Sludge Transfer Pump



#7 Utility Building – Sludge Transfer Pump Variable Frequency Drive

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

Project Progress Update No. 13
Submitted June 20 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.
- Pare presided over a meeting with Hart and WSA on Thursday, June 16th to review the schedule for implementation of Phase II and to review the disposal of excess material from Phase I.
- Hart plans to commence removing excess material on Monday, June 20th
- Excavation for the core of the Phase II Levee is anticipated later in that week.
- Hart projects completion of Phase II by July 30.

PHASE III LEVEE PROJECT: BID PHASE

The following activities have occurred since the last report:

- Pare and WSA met to discuss the Phase III award and EPA approval
- Pare prepared and supplied WSA with a Notice of Award letter, which was then forwarded to DiGregorio.
- Pare Scheduled a Pre-Construction meeting for Phase III for June 30, 2016 at 9AM at WSA

Two- Week Look Ahead

- **Hart shall commence excavation and filling activities at Phase II commencing with the removal of excess Phase I material, excavation for the low permeability core, and placement of low permeability fill material.**
- **DiGregorio will attend a kick-off meeting and finalize the contract for Phase III**

Attachment:

Warwick Wastewater Treatment Facility Levee Improvements Phase II

- Weekly Construction Progress Meeting No. 1 Minutes

Warwick Wastewater Treatment Facility Levee Improvements – Phase II

Warwick, Rhode Island

Pare Project #15069.00

Weekly Construction Progress Meeting No. 1 – Minutes

Meeting Date: June 16, 2016; 8:00 am Location: Warwick Wastewater Treatment Facility Warwick, Rhode Island Prepared By: David Caouette, PARE Issue Date: June 16, 2016	Meeting Attendants: Janine Burke-Wells, WSA David Caouette, Pare James Ramos, Hart Ray Lagesse, Hart
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The following provides a summary of the meeting minutes as recorded by Pare. New information reported in old business is highlighted in italics. Closed items to be removed from future minutes are shaded. Should you have any comments or clarifications please notify Pare within 3 business days so that revised minutes can be prepared.

Item No.	Item	Action Req. By:	Date Opened	Status
OLD BUSINESS				
--	None	--	--	--
NEW BUSINESS				
1.01	HART provided an updated schedule for the Phase II work. HART stated that they plan to start work on Monday, June 20, 2016 by hauling out the material excavated from Phase I. Excavation for the Low Permeability Fill keyway would commence later in the week. HART estimated that they would be done by mid to late July (excluding loam and seed). <i>Pare and the WSA acknowledged.</i>	-	6/16/16	Closed
1.02	Pare asked how HART plans on tracking the disposed material and if tonnage slips could be provided. <i>HART stated that they did not know if the disposal facility would have a scale, but if it does they would provide slips; otherwise Pare and HART would have to discuss a means of quantifying the material. Once HART knows the location of the disposal facility HART and Pare will determine the best means to quantify the weight of the disposed material.</i>	HART	6/16/16	OPEN
1.03	Pare asked HART to submit for review the proposed haul roads and provide a certification of acceptance from the disposal facility in accordance with the contract specifications. <i>HART stated that once they knew the location of the disposal facility they would provide the requested submittals.</i>	HART	6/16/16	OPEN
1.04	All parties discussed logistics to the Phase II work including: access, parking lot closures, telephone pole/utility support, and stockpiling of material.	-	6/16/16	Closed
1.05	The WSA asked about the required completion date. <i>Pare stated that while no date was discussed as part of the Phase II work, since this work is being completed as a change order under the existing Contract 91 the completion date should reflect the dates in that contract. The WSA stated that the substantial completion date for Contract 91 was June 30, 2016; however, it was likely that an extension would be granted to the end of July for substantial completion. Final completion will be 3 months later. All parties agreed that an end of July date should accommodate all but the landscaping work associated with the Phase II work. The WSA should issue a contract extension to confirm this.</i>	WSA	6/16/16	OPEN
Date of Next Progress Meeting: To be determined				

Attachment: None



Gordon R. Archibald, Inc.
Civil and Environmental Engineers

June 17, 2016

PROGRESS REPORT
GOVERNOR FRANCIS PHASE III

Work this Period:

1. GRA met with the Warwick Planning Department on May 25, 2016 to discuss the revised subdivision plans based on the meeting held with the land owner on May 13, 2016. The Warwick Planning Department indicated the subdivision process could proceed administratively. However, they requested that a meeting be held with the Tax Assessor to review and to discuss the Tax Assessor Lots as indicated on the Plat Maps to ensure there are no issues.
2. GRA met with the Tax Assessor June 7, 2016 to discuss the administrative subdivision. There are no issues relating to the Tax Assessor Lots as indicated on the Plat Maps which would impact the administrative subdivision process.
3. At the Tax Assessor meeting, the Landowner decided to modify the parcel layout in order to not impact future development rights. This would be done by adding A.P. 307 Lot 413 or A.P. 313 Lot 120 to administrative subdivision process. Both are large parcels. Accordingly, the surveyor is researching these lots to determine feasibility.
4. Based on the meetings with the Planning Department and Tax Assessor, GRA will submit the Order of Approval to RIDEM by June 24, 2016. 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 JUNE 18, 2016
PROJECT NUMBER 04635.00

PROFESSIONAL SERVICES FROM MAY 19, 2016 TO JUNE 18, 2016

PROJECT SUMMARY:

FILE REVIEW
COMPLETED

BASE PLAN MODIFICATIONS
COMPLETED

DESIGN PLAN, SPECS & EST. MOD.

1. MEETING ON JUNE 13, 2016 WITH RESIDENTS AND WARWICK SEWER AUTHORITY

ADDITIONAL SERVICES BEYOND SCOPE OF CONTRACT
NO WORK THIS PERIOD

CONSTRUCTION BIDDING SERVICES
NO WORK THIS PERIOD

WETLANDS BIOLOGIST
COMPLETED

PROGRESS REPORT
SANITARY SEWER IMPROVEMENTS – NORTHWEST GORTON POND

DATE JUNE 18, 2016
PROJECT NUMBER 6342.01

PROFESSIONAL SERVICES FROM MAY 19, 2016 TO JUNE 18, 2016

PROJECT SUMMARY:

ZONE 1 FINAL DESIGN / ZONE 2 PRELIMINARY DESIGN

- 1.) UPDATED PLAN & PROFILE DESIGN OF ZONE 1 - ONGOING
- 2.) RESTARTED WORK ON ZONE 1 PUMPSTATION DESIGN – ONGOING
- 3.) INVESTIGATED ZONE 2 AREA TO DETERMINE IDEAL LOCATION OF PUMP STATION AND/OR LOW PRESSURE SEWERS, AND EFFECT ON ZONE 1 DESIGN - ONGOING
- 4.) MET WITH HAYES PUMP TO DISCUSS PUMP AND POWER OPTIONS FOR ZONE 1 AND ZONE 2 PUMP STATIONS.



Gordon R. Archibald, Inc.
Civil and Environmental Engineers

June 17, 2016

PROGRESS REPORT
BAYSIDE SEWERS -CONTRACT 86A-2 TIDEWATER INTERCEPTOR

Work this Period:

1. The design team continues coordination on a Memorandum of Agreement (MOA) with EPA, RIHPHC, WSA, and NITHPO.
2. GRA continues preparation of the design proposal to combine the project into a single construction project which would utilize trenchless technologies. However, GRA will not finalize the proposal until NITHPO signs the MOA. NITHPO has recently indicated that relocation of burials may be their preferred method of mitigation rather than preservation in place. If the burials are to be exhumed and/or relocated, the scope of services and cost for design, archaeological investigation, and construction would significantly change and increase.

WSA Construction Project Data Table

As Of: 07/05/16

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 Phase III (O'Donnell Hill)	Anticipated Summer 2016	95%	N/A	5/16/16	N/A		
Northwest Gorton Pond	Still Planning for 2017	10%					
Governor Francis III	Anticipated Fall 2016	90%	8/4/2008				
Bayside 86A-1 (Tidewater Interceptor)	05/01/15	100%	5/16/2006	7/7/2015	7/7/2015	09/04/15	100%
Bayside 86A-2 and 86B (Tidewater Interceptor & 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		90%
AWT Levee Improvement	12/31/13	100%	N/A	3/14/2014	4/3/2013		40%

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)	\$26,710.00	N/A				\$800.00	\$27,510.00	\$2,550.00	N/A
Northwest Gorton Pond	\$165,819.77				\$1,427.43		\$167,247.20	\$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	\$200,355.54	\$1,105.19	\$0.00	\$515,813.86	\$504,302.61	N/A
Bayside 86A-2 and 86B (Tidewater Interceptor & Lateral Pressure Sewers)	\$263,217.52	N/A			\$24,094.21	\$103,687.32	\$390,999.05	\$390,999.05	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	\$11,740,677.84	\$1,465,664.75	\$0.00	\$447,646.96	\$14,403,447.40	\$14,220,509.52	N/A
AWT Levee Improvement	\$116,357.76	N/A	\$1,588,939.72	\$103,823.42	\$0.00	\$0.00	\$1,809,120.90	\$0.00	\$1,628,208.81

Cost of Issuance and Debt Service Reserve for all borrowing: \$1,751,432.42
 Total Bond Authorization Utilized: \$16,903,093.82
 Total Bond Authorization Remaining (of \$56 Million): \$39,096,906.18