

PEIRCE ISLAND WASTEWATER TREATMENT FACILITY UPGRADE



Quarterly Report

April 2017

The City of Portsmouth awarded the Peirce Island Treatment Facility Upgrade to Methuen Construction, of Salem, NH in August 2016. Construction began September 1, 2016 and kicked off the largest construction project in the City's history. The first three months of work focused on roadway preparation to the treatment facility and mobilizing equipment and materials. During the most recent quarter (through March 2017), construction has progressed steadily on site and is depicted on the center pages.

In this Quarterly Update a summary of construction progress is covered through pictures of installed and ongoing work and with metrics on the amount of dollars spent to date and time elapsed on the project. Upcoming work is summarized on the last page of the document. A listing of comments received on this project from the public is provided as well as the answers and actions taken as a result of the comments and concerns. The City remains committed to making this a successful project and mitigating construction impacts. Questions and comments are always welcome and may be directed to the City staff by phone, email, or through the City's project web page at www.portsmouthwastewater.com/piupgrade.html.

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COST SUMMARY

Original Construction Contract	\$72,785,545
Change Order 1—January 2017	\$367,290
TOTAL CONTRACT	\$ 73,152,835
Funding Spent through April 1, 2017	\$12,958,668
Funding Spent through April 1, 2017	18%

After an extensive bidding process, the construction contract was awarded to Methuen Construction. The value for the construction project was \$72.79 million. During this past quarter Change Order No. 1 was executed. This work included realignment and increased the size of a potable water main extending from the public pool, past the treatment facility to New Castle. This change in work was added in order to address improvements in the water distribution system and realign the water main to be easily accessible for future maintenance. The change order also included pavement required to protect

historical resources in the area of Strawberry Banke. All the items in the change order were identified after the project was awarded. The City has planned for additional funding for construction contingency and engineering oversight costs as part of the Fiscal Year 18 Capital Improvement Plan. These costs will be covered through an amendment to the City's State Revolving Loan Fund with the Department of Environmental Services. This loan allows the City to pay only 1% interest during construction and 2.23% interest for the life of the 20 year loan. Authorization for this additional funding will be requested after July 2017.

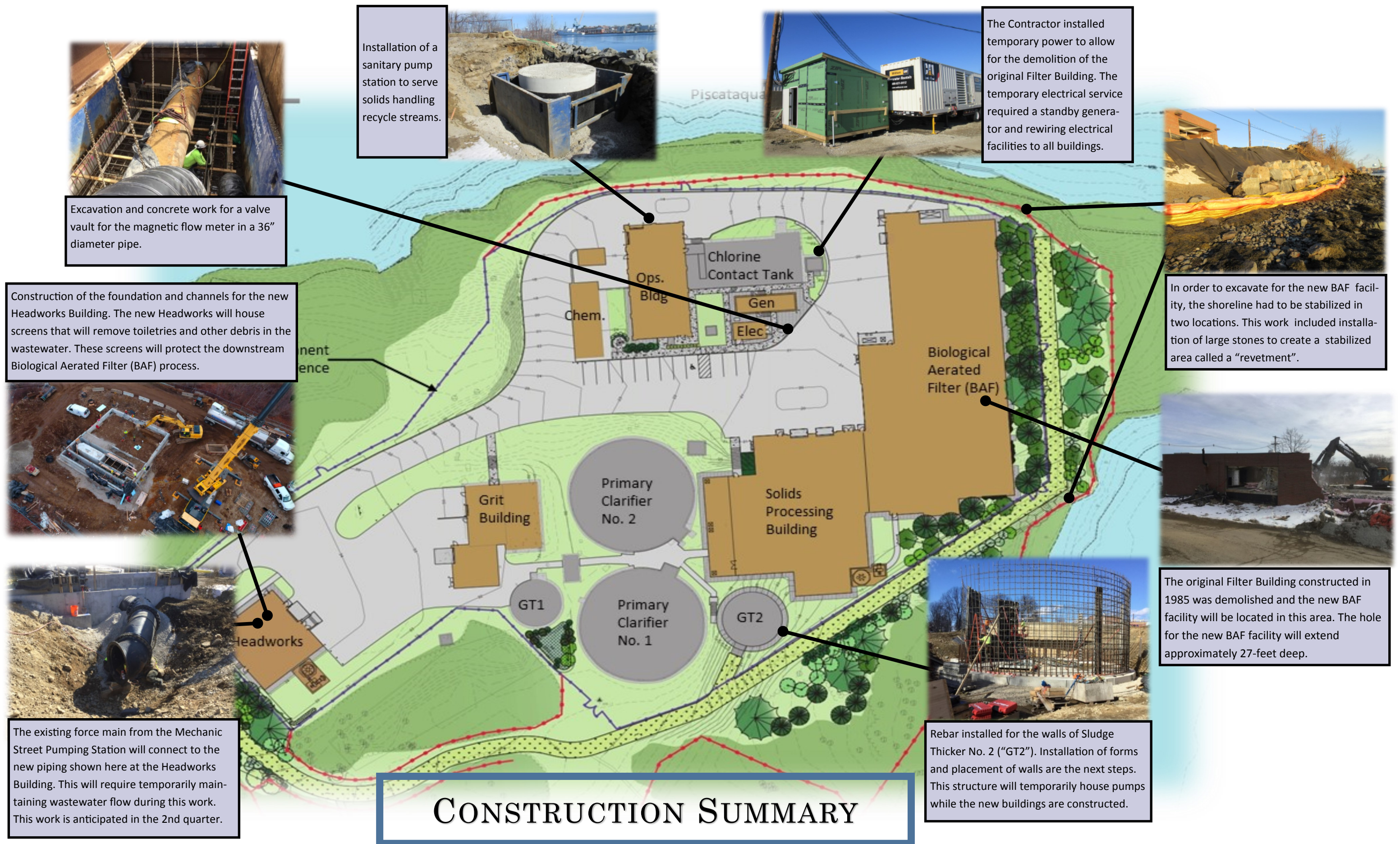
SCHEDULE

Project Milestones

Consent Decree Interim Milestone: Complete Headworks Building	11/21/2017
Consent Decree Interim Milestone: Startup Secondary Influent Pumps	05/09/2019
Consent Decree Milestone: Biological Aerated Filter (BAF) Substantial Completion	12/01/2019
Consent Decree Milestone: NPDES Permit Compliance	04/01/2020
Contract Milestone: Project Substantial Completion	05/31/2020
Contract Milestone: Project Final Completion	08/30/2020

The project is on schedule to meet required Consent Decree and Contract Milestones. It is 15.5% complete as of April 1, 2017 based on the project substantial completion date.

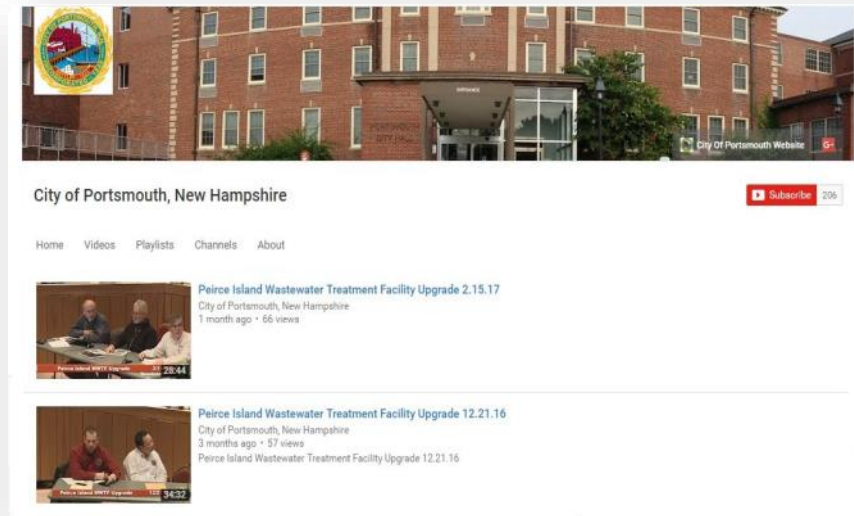
In addition to the Contract Milestones for the Peirce Island Treatment Facility Upgrade, the City was required by the Environmental Protection Agency to perform a treatment enhancement study. Staff are performing the study and are testing alternative settling chemicals to see if the overall treatment performance can be improved. The study will conclude in two to three months and an update will be provided in the next Quarterly Report.



PUBLIC MEETINGS

Public information meetings regarding construction activities are held on the third Wednesday of every month through the duration of the project. The meetings offer a forum for the public to provide feedback on the project.

Check out videos on the City's YouTube Channel at: www.youtube.com/user/CityofPortsmouth



An excerpt of comments received during public meetings and their responses are noted below.

Q: Why were large rocks being delivered to the site?

A: The rocks were being brought to the site for the construction of the revetments (rip rap slope stabilization).

Q: People have been accessing the site on nights and weekends.

A: Increased police attention to the site has been paid and increased signage has been installed.

Q: Why are CSOs not being addressed as part of this project? Why is a larger plant not being constructed to address the CSO issues?

A: The City is compliant with the EPA's requirements in regards to the CSO program. The CSO program (or Long Term Control Plan) has been effective with this approach and the number of CSOs has been significantly reduced.

CSO reduction will continue to be addressed through work like sewer separation. The approach of increasing the size of the treatment facility for CSO control has not been determined an effective solution.

Q: Vehicles are not stopping at Marcy and Mechanic Streets.

A: Additional traffic signage has been posted for this intersection and a video camera has been installed to observe and correct any infractions.

Q: I am upset about the sewer main break {which occurred on February 3rd} and allowed raw sewage in the river. How did it happen and why was there no Digsafe investigation prior to the incident?

A: Digsafe procedures had been performed prior to the incident, but it did not pinpoint the exact location of the bend in the pipe that was not located as indicated on construction drawings. Details of the incident are provided in press releases and reports available on the website.

ADDITIONAL PUBLIC COMMENTS

Feedback was provided by email to City Staff regarding the following topics:

Construction traffic has not been following stop signs and crosswalks on Marcy Street.

The contractor has addressed all of his own employees and subcontractors that there is no tolerance for reckless driving and it is means for termination. Traffic cameras have been installed at the intersections of Marcy & Mechanic and Marcy & State to monitor traffic.

Contractor has been starting construction prior to 7 AM on workdays.

The contract restricts large deliveries utilizing oversize trucks from 12 AM to 8 AM. The contractor is allowed to start work at 7 AM and is prohibited from operating heavy machinery prior to 7 AM.

LEGAL NEWS

Late last year, a small number of Portsmouth residents opposed to the Peirce Wastewater Treatment Facility (WWTF) Upgrade brought a Clean Water Act claim against the Environmental Protection Agency, the State of New Hampshire and the City of Portsmouth (the defendants). This action is pending in the United States District Court for the District of New Hampshire.

Each defendant has filed a motion to dismiss the action. These motions to dismiss the lawsuit are



pending before the court. It is uncertain how long it will take the court to review the legal arguments made by the various parties and issue a ruling. Also pending is a motion by the plaintiffs to amend their complaint, to which the defendants objected. In late March of this year, the

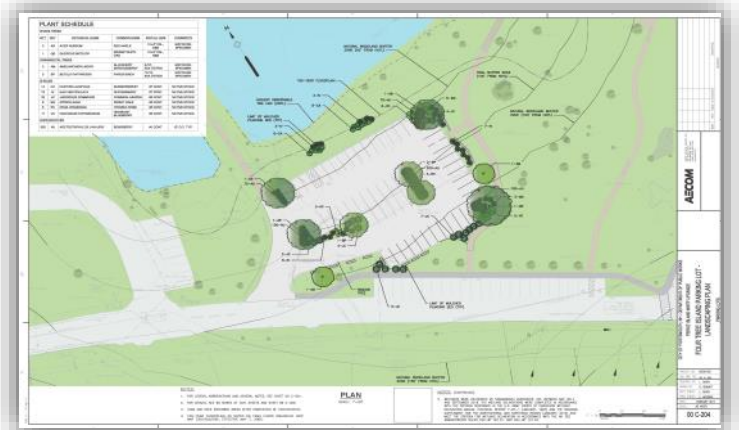
Court rejected the request of the plaintiffs to expedite discovery and trial. Instead, after hearing extensively from counsel for the City, as well as other parties, the Court postponed discovery until after pending motions are resolved.

PARKING MITIGATION

The pool parking lot is being used during the project for temporary offices for City treatment plant staff, the Contractor, and Engineers. In order to mitigate the loss of parking for the Peirce Island outdoor pool, additional parking improvements are planned.

The Four Tree Island parking lot area will be increased by approx. 50% and reconfigured which will nearly double the number of parking spots. The work will incorporate porous pavement and new landscaping.

The grassed area adjacent to the existing boat ramp has been used for overflow parking in the past. In order to make this area more reliable and stabilize the surface, drainage improvements will be constructed in this area and new parking features will be provided to help better organize this parking area.



Construction of these improvements will begin soon so that they can be completed by the summer pool season. Construction will result in temporary impact to parking in these areas.

Safety officer(s) will be used to help direct summer traffic and pedestrians on the island. DPW staff are working closely with the Recreation Department and Prescott Park to coordinate logistics of construction impacts.

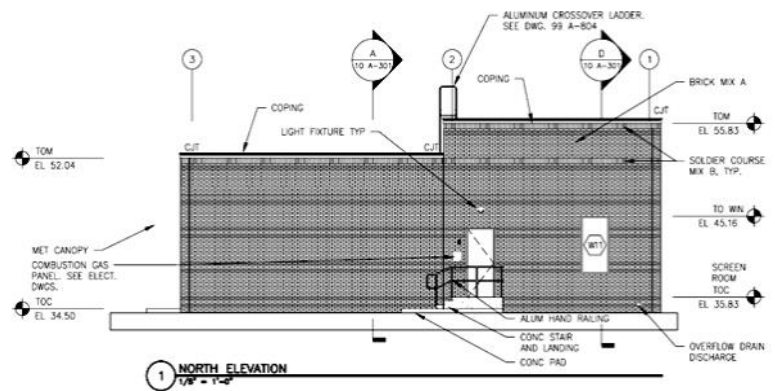
UPCOMING WORK

The timeframe to build the new treatment facility components, such as the Headworks Building and the Biological Aerated Filter (BAF) will extend over multiple quarters. A general summary of upcoming work includes the following:

- Continued work on the Headworks Building including construction of the walls, roof, architectural finishes, and interior mechanical piping. The first Consent Decree project milestone is completion of this building later this year.
- Complete the new Sanitary Pump Station including the installation of mechanical equipment and piping, electrical, instrumentation and startup.
- Complete the excavation for the new BAF Building including removal of the existing Filter Building and removal of ledge.
- Begin the foundation for the BAF Building including concrete forms and reinforcing.
- Construction of underground piping throughout the treatment facility site. This work will require significant coordination for maintaining existing operations at the treatment facility and avoid construction and operations impacts to vehicles moving through the site.
- Continue installation of reinforcing steel and concrete for the foundation and walls of the new Primary Effluent Flow Meter Vault and Sludge Thickener No. 2.



Headworks Building - Under Construction



Headworks Building - Proposed

Tours of the construction will be scheduled in the spring of this year. In the near term, the public may view the project and the staging areas by drone video. The videos provide a clear picture from overhead and may be accessed by going to the City's project web page.

Peirce Island Wastewater Treatment Facility Upgrade Project website:
www.portsmouthwastewater.com/piupgrade.html

Prepared by the Department of Public Works