



Peirce Island WWTF Upgrade Construction  
Public Information Meeting  
March 20, 2019

# Topics of Discussion

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- Introductions
- Work Completed Since Last Meeting
- Work to be Completed in Coming Month
- Work Anticipated in Next 6 Months
- Project Construction Costs
- Events & Recreation
- Public Input/Comments/Concerns
- Next Meeting



# Introductions

- City Staff:

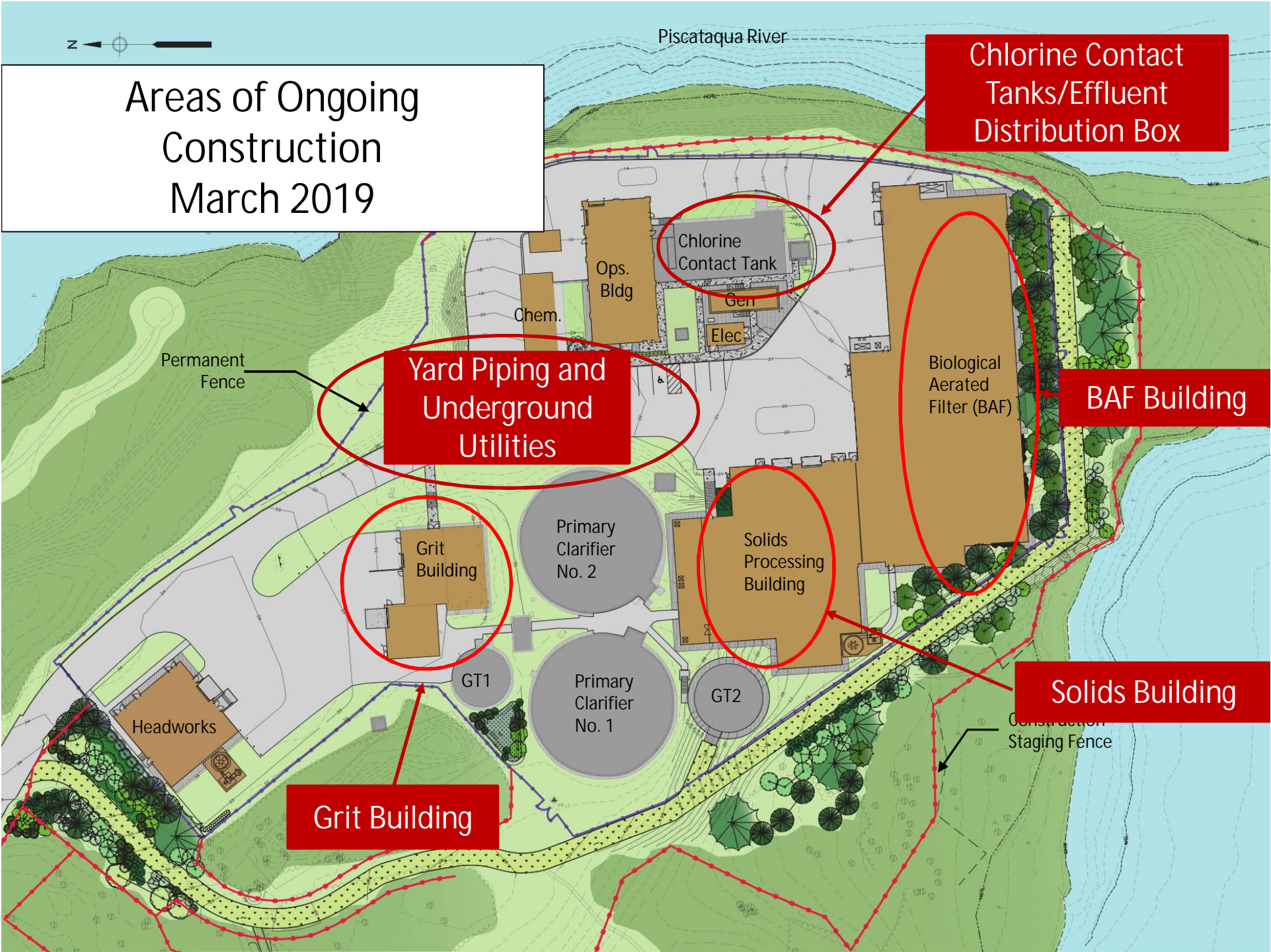
- Terry Desmarais, City Engineer, 603-766-1421  
tldesmarais@cityofportsmouth.com

- Website:

<https://www.cityofportsmouth.com/publicworks/wastewater/peirce-island-wastewater-facility/peirce-island-wastewater-facility-upgrade-project>

- News and Updates
- Recreational Info
- Project Info
- Report Form
- Etc.





Areas of Ongoing Construction  
March 2019

Chlorine Contact Tanks/Effluent Distribution Box

Yard Piping and Underground Utilities

BAF Building

Grit Building

Solids Processing Building

Solids Building

Grit Building

Construction Staging Fence

Permanent Fence

Piscataqua River



Primary Clarifier No. 2

Primary Clarifier No. 1

Headworks

GT1

GT2

Ops. Bldg

Chem.

Chlorine Contact Tank

Gen

Elec

Biological Aerated Filter (BAF)

# Site Overview November 2016



March 20, 2019



Peirce Island WWTF Upgrade Construction

# Work Completed Since Last Meeting



March 20, 2019



Peirce Island WWTF Upgrade Construction

# Work Completed Since Last Meeting



Yard Piping & Utilities

# Work Completed Since Last Meeting



Grit Building

March 20, 2019



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# Work Completed Since Last Meeting



BAF Building

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# Work Completed Since Last Meeting



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Peirce Island WWTF Upgrade Construction

BAF Building

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# Work Completed Since Last Meeting



BAF Building



# Work Completed Since Last Meeting



Solids Building

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# Work Completed Since Last Meeting



Solids Building

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# Work Completed Since Last Meeting



Solids Building



# Work Completed Since Last Meeting

## Chlorine Contact Tanks



San. Pump Station 1 Valve Vault

# Work to be Completed in Coming Month

- Continue minor finish work at the Headworks Building
- Continue architectural, structural, mechanical process, HVAC, plumbing, and electrical construction in the Grit Building
- Continue installation of the new polymer system in the Grit Building
- Continue installation of process piping in the pipe gallery and Stage 2 of the BAF Building
- Continue mechanical and electrical work in the BAF Building
- Continue installation of slide gates in the BAF cells





# Work to be Completed in Coming Month, Cont.

- Continue masonry work at the BAF and Solids Building
- Continue installation of equipment and process piping in the Solids Building
- Continue electrical, HVAC and plumbing work in Solids Building
- Continue painting of walls and ceilings in the Solids Building
- Continue underground piping installation between the Grit Building, Solids Building, and BAF Building
- Begin demolition of Parshall Flume
- Complete underground power feeds to BAF and Solids Building





Piscataqua River

# Anticipated Construction March – September 2019

Chlorine Contact  
Tanks/Effluent  
Distribution Box

Operations/Lab  
Building

Ops.  
Bldg

Chlorine  
Contact Tank

Gen

Elec

Chem.

Permanent  
Fence

Yard Piping and  
Underground  
Utilities

Biological  
Aerated  
Filter (BAF)

BAF Building  
Construction

Primary  
Clarifier  
No. 2

Solids  
Processing  
Building

Solids Building  
Construction

Grit  
Building

Primary  
Clarifier  
No. 1

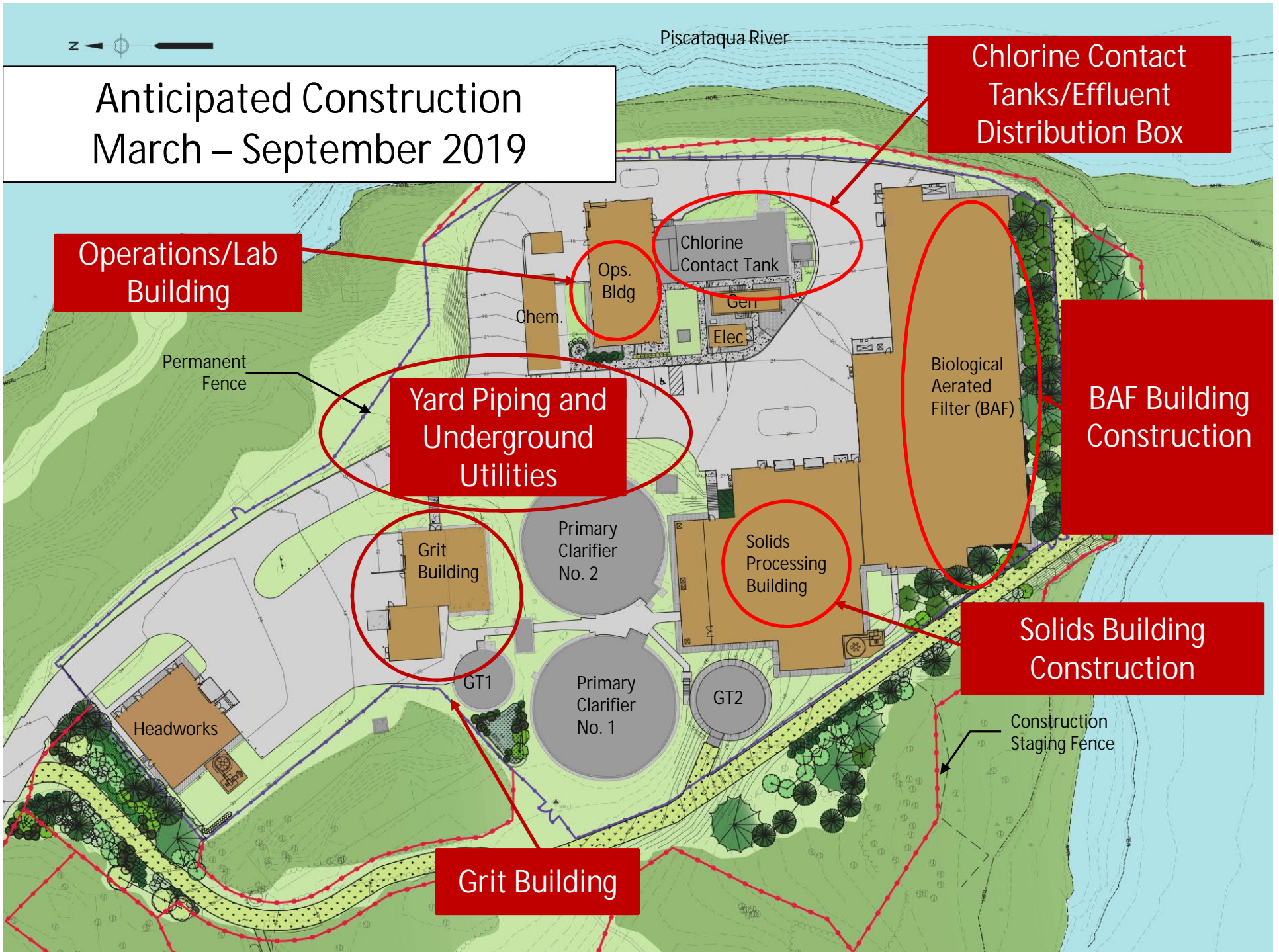
GT1

GT2

Headworks

Construction  
Staging Fence

Grit Building



# Project Construction Costs

- Original Contract: \$72.786 million
- Change Order No. 1: \$0.367 million
- Change Order No. 2: \$0.547 million
- Change Order No. 3: \$0.093 million
- Change Order No. 4: \$0.163 million
- Change Order No. 5: \$0.250 million
- Change Order No. 6: \$0.292 million
- Total Contract: \$74.498 million



# Consent Decree Schedule

Milestone	Date	Status
Execute Contract to Construct Upgrades	September 1, 2016	Complete
Submit Two Additional Milestones for EPA Review and Approval	December 1, 2016	Complete
Additional Milestone 1: Transfer of the existing SCADA system to the new Headworks Building	November 21, 2017	Complete
Additional Milestone 2: Startup and testing of the Secondary Influent Pump Station in the new Solids Building	May 9, 2019	On Schedule
BAF Substantial Completion	December 1, 2019	On Schedule
Achieve Compliance with NPDES Permit Limits	April 1, 2020	On Schedule



# Events and Recreation

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- Upcoming
  - Eastern States 20 Mile Road Race
  - St. John's Lodge Annual 5k
  - New Castle 10k
  - Walk MS: Portsmouth
  - Strawberry Banke Events





Public Input / Comments / Concerns

# Next Meeting

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- Public Construction Meeting
  - Next Meeting: April 17, 2019, 11:00 AM



## Meeting Notes

Subject	Peirce Island WWTF Upgrade – Monthly Public Construction Meeting
Date	March 20, 2019
Time	11:00 AM
Location	Portsmouth, NH

A public meeting was held at 11:00 AM on March 20, 2019 in Conference Room A at Portsmouth City Hall for the subject project. A record of the discussion follows:

Peter Rice, Director of Public Works, gave an introduction to the meeting and outlined the topics of discussion, including work completed since the last meeting, work to be completed in the coming month, work anticipated in the next six months, construction cost to date, summary of Consent Decree milestones, events and recreation, and public input.

The members of the Project Team in attendance introduced themselves, and included:

- Peter Rice, Director of Public Works
- Brian Goetz, Deputy Director of Public Works
- Jon Pearson, AECOM Project Manager
- Andy Brodeur, Methuen Construction, Project Manager

Peter noted that to obtain additional information regarding the project, there is a project website that can be accessed through [www.cityofportsmouth.com/publicworks/wastewater/peirce-island-wastewater-facility/peirce-island-wastewater-facility-upgrade-project](http://www.cityofportsmouth.com/publicworks/wastewater/peirce-island-wastewater-facility/peirce-island-wastewater-facility-upgrade-project). The website is updated weekly with news and recreational information and contains a link to a reporting form that can be used to provide feedback or notify the City of any issues associated with the project. Terry Desmarais, City Engineer, is the point of contact for the City.

Jon discussed work that has been completed this month. He noted areas where work is ongoing at the site, including:

- Yard Piping / Utility Service
- Grit Building
- Solids Building
- Biological Aerated Filter (BAF) Building
- Chlorine Contact Tanks / Effluent Distribution Box

Jon reviewed photos of construction progress, including:

- Site Overview – Existing conditions of the Peirce Island Wastewater Treatment Facility in November 2016. Prior to construction, the treatment process consisted of the Aerated Grit Chambers, followed by the Primary Clarifiers and Chlorine Contact Tanks.



- Yard Piping and Utility Service - Work to install yard piping and electrical ductbanks between the Grit Building, Solids Building and BAF Building is in progress.
- Grit Building & Aerated Grit Chambers – Work to install new mechanical process, HVAC and electrical equipment in the Grit Building is in progress; this includes but is not limited to the construction of the Polymer Room. Structural and architectural modifications to the building are also in progress. Efforts to keep the Grit Building operational during equipment replacement are ongoing.
- BAF Building – Installation of mechanical process piping within the BAF cells, Pipe Gallery, and mechanical process spaces is in progress. Work to install the mechanical process valves and slide gates is in progress. Work to install electrical equipment within the Blower and Electrical Rooms is in progress, this includes but is not limited to the installation of the Motor Control Center and various control panels. Masonry work on the brick façade of the western stairway is in progress. Major concrete placement work in the BAF Building has been completed.
- Solids Building – Installation of mechanical process piping and placement of mechanical process equipment in the Pump Gallery and Upper Level is underway; this includes but is not limited to the primary sludge pumps and grinders, screw press feed pump and grinders, and various process piping. Work to construct and isolate chemical areas is underway, this includes the application of protective coatings. Plumbing, HVAC, and electrical work on the Lower Level and Upper Level is underway. Work to install the brick façade has begun.
- Chlorine Contact Tanks/ Effluent Distribution Box – Work to install a temporary bulkhead has been completed. The bulkhead was installed so that modifications to the Effluent Distribution Box can occur as flow passes through the distribution box.
- Sanitary Pump Station 1 Valve Vault – work to install mechanical process piping is ongoing.

Andy discussed work anticipated for the coming month, including:

- Continue minor finish work in the Headworks Building.
- Continue architectural, structural, mechanical process, HVAC, plumbing, and electrical construction in the Grit Building.
- Continue installation of the new polymer system in the Grit Building.
- Continue installation of process piping in the pipe gallery and Stage 2 of the BAF Building.
- Continue mechanical and electrical work throughout the BAF Building.
- Continue installation of slide gates in the BAF cells.
- Continue masonry work on the BAF Building and Solids Building.
- Continue installation of equipment and process piping in lower level of the Solids Building.
- Continue electrical, HVAC and plumbing work in the Solids Building.
- Continue painting of walls and ceilings in the Solids Building.
- Continue underground piping installation between the Grit Building, Solids Building, and BAF Building.
- Begin demolition of Parshall Flume.
- Complete underground power feeds to the BAF and Solids Building.

Andy then discussed the work anticipated through March and into September 2019, including:

- Headworks Building – Complete minor finish work.
- Grit Building – Interior: Complete selective architectural, structural and mechanical process modifications. Complete installation of electrical and control wiring and fire alarm wiring. Complete installation and turnover of new chemical systems (ferric chloride and polymer).

Complete installation of mechanical process piping and equipment. Exterior: Complete work on the yard piping associated with the building and installation of exterior features such as doors and windows.

- BAF Building – Continue installation of mechanical process piping and equipment, electrical, plumbing, and HVAC systems, this includes the Boiler Room, Mechanical Room, and Blower Room. Continue interior painting and protective coatings. Complete masonry work, including installation of CMU walls on both ends of the building for the stairways and buildout of rooms. Complete installation of precast roof planks, roofing system and brick façade. Complete installation of yard piping associated with the BAF Building and backfilling around the building.
- Solids Building – Continue work on interior mechanical process piping and equipment, this includes but is not limited to the startup and testing of the Secondary Influent Pumps. Complete installation of yard piping and underground utilities in and around the Solids Building. Complete reinforcement, formwork, and concrete placement for equipment pads. Complete masonry work, including installation of brick façade. Complete installation of chemical systems. Complete interior painting and protective coatings. Complete installation of exterior features, including windows and doors.
- Sanitary Pump Station No. 1 – Complete associated yard piping and installation of pumps within the structure.
- Operations Building – Complete hazardous materials abatement work as well as demolition of the upper level. Complete installation of new structural steel. Begin framework for exterior walls and roof. Begin mechanical processes, electrical, HVAC and plumbing rough-in work. Begin installation of CMU walls and chemical containment curbs in the basement.
- Underground Piping and Utility Services – Complete yard piping from the Primary Clarifiers to the BAF Building, Solids Building, and Primary Clarifier Effluent Distribution Box. Complete the electrical and communication ductbanks towards the BAF and Solids Buildings. Begin installation of utility connections to the Operations Building.

Jon provided an update on the project construction cost:

- Original Contract: \$72.786 million
- Change Order No. 1: \$0.367 million
- Change Order No. 2: \$0.547 million
- Change Order No. 3: \$0.093 million
- Change Order No. 4: \$0.163 million
- Change Order No. 5: \$0.250 million
- Change Order No. 6: \$0.292 million
- Total Contract: \$74.498 million

Jon provided a summary of the project milestones set by the Consent Decree:

- Execute Contract to Construction Upgrades - Date: 9/1/2016 - Status: Complete
- Submit Two Additional Millstones for EPA Review and Approval - Date: 12/1/2016 - Status: Complete
- Additional Milestone 1: Transfer of the Existing SCADA system to the New Headworks Building - Date: 11/21/2017 - Status: Complete
- Additional Milestone 2: Startup and Testing of the Secondary Influent Pump Station in the New Solids Building - Date: 5/9/2019 - Status: On Schedule
- BAF Substantial Completion - Date: 12/1/2019 - Status: On Schedule

- Achieve Compliance with NPDES Permit Limits - Date: 4/1/2020 - Status: On Schedule

Jon noted that the project team is continuing to coordinate construction with community events. Upcoming events this month include Eastern State 20 Mile Road Race, St. John's Lodge Annual 5k, New Castle 10k, Walk MS: Portsmouth, and Strawberry Banke Events.

There were no questions or comments from the public during the public input portion of the meeting.

The next public construction meeting will be on April 17, 2019 at 11:00 AM in Conference Room A at Portsmouth City Hall.

These notes present a summary of the items discussed at the meeting and are not a transcript of the meeting.