



# Peirce Island WWTF Upgrade Construction

Public Information Meeting

May 20, 2020

# 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
- Consent Decree Schedule
- Events & Recreation
- Public Input/Comments/Concerns
- Next Meeting



# Introductions

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- 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.







Piscataqua River

# Areas of Ongoing Construction May 2020

**Operations/ Lab Building**

**Chlorine Contact Tanks**

**Site Work**

**BAF Building**

**Gravity Thickener No. 2**

Permanent Fence

Construction Staging Fence

Chem.

Ops. Bldg

Chlorine Contact Tank

Gen

Elec

Biological Aerated Filter (BAF)

Site Work

Grit Building

Primary Clarifier No. 2

Solids Processing Building

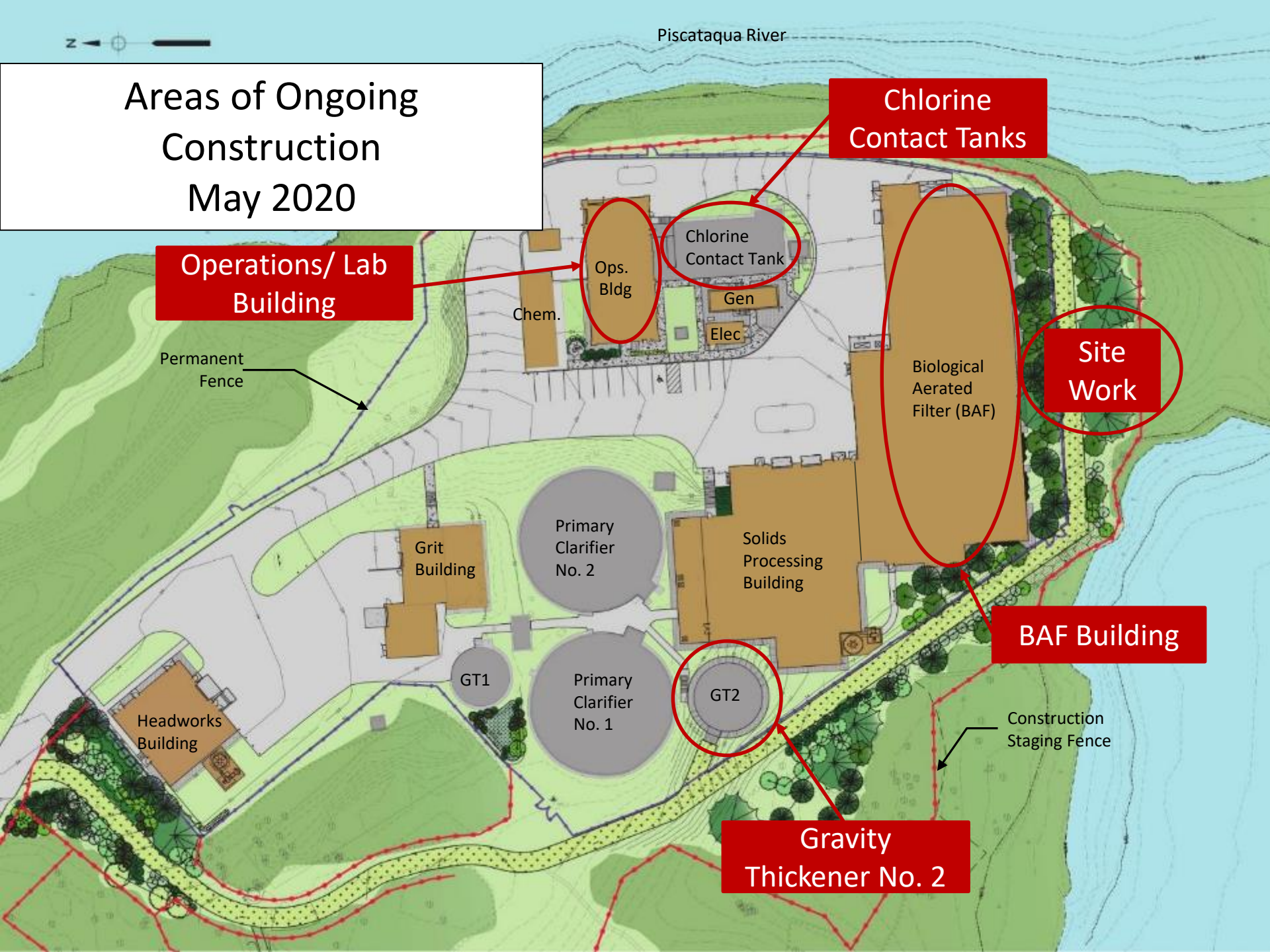
GT1

Primary Clarifier No. 1

GT2

Headworks Building

Construction Staging Fence



# Site Overview November 2016





# Work Completed Since Last Meeting



# Work Completed Since Last Meeting



Site Work





# Work Completed Since Last Meeting



Site Work





# Work Completed Since Last Meeting



Site Work





# Work Completed Since Last Meeting



**Ops/Lab Building**





# Work Completed Since Last Meeting



Ops/Lab Building





# Work Completed Since Last Meeting



Ops/Lab Building





# Work Completed Since Last Meeting



Ops/Lab Building



# Work Completed Since Last Meeting



Ops/Lab Building





# Work Completed Since Last Meeting



Ops/Lab Building



# Work to be Completed in Coming Month

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- Continue minor finish work at the Headworks Building, Grit Building, Solids Building, and BAF Building
- Continue startup of the BAF Building process
- Continue minor interior touch up painting in the BAF, Solids and Grit Buildings
- Continue integration of the BAF control system with the plant's SCADA system
- Complete outstanding work and startup Gravity Thickener No. 2 mechanism





# Work to be Completed in Coming Month

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- Continue structural steel, metal roof deck, interior metal stud framing, interior masonry, and exterior brick work at the new Operations/Lab Building
- Continue mechanical process work at the new Operations/Lab Building
- Continue HVAC, electrical, and plumbing rough in work at the new Operation /Lab Building lower level.
- Prepare site for planting and continue installation of landscaping



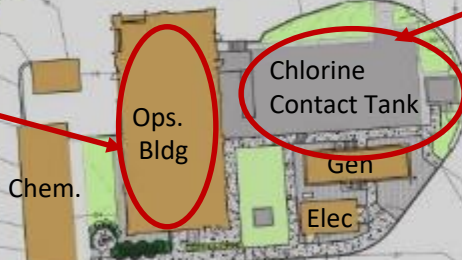


Piscataqua River

Anticipated Construction  
May – November 2020

Chlorine Contact Tanks

Operations/Lab Building



Site Work

Permanent Fence

Biological Aerated Filter (BAF)

BAF Building

Grit Building

Primary Clarifier No. 2

Solids Processing Building

Construction Staging Fence

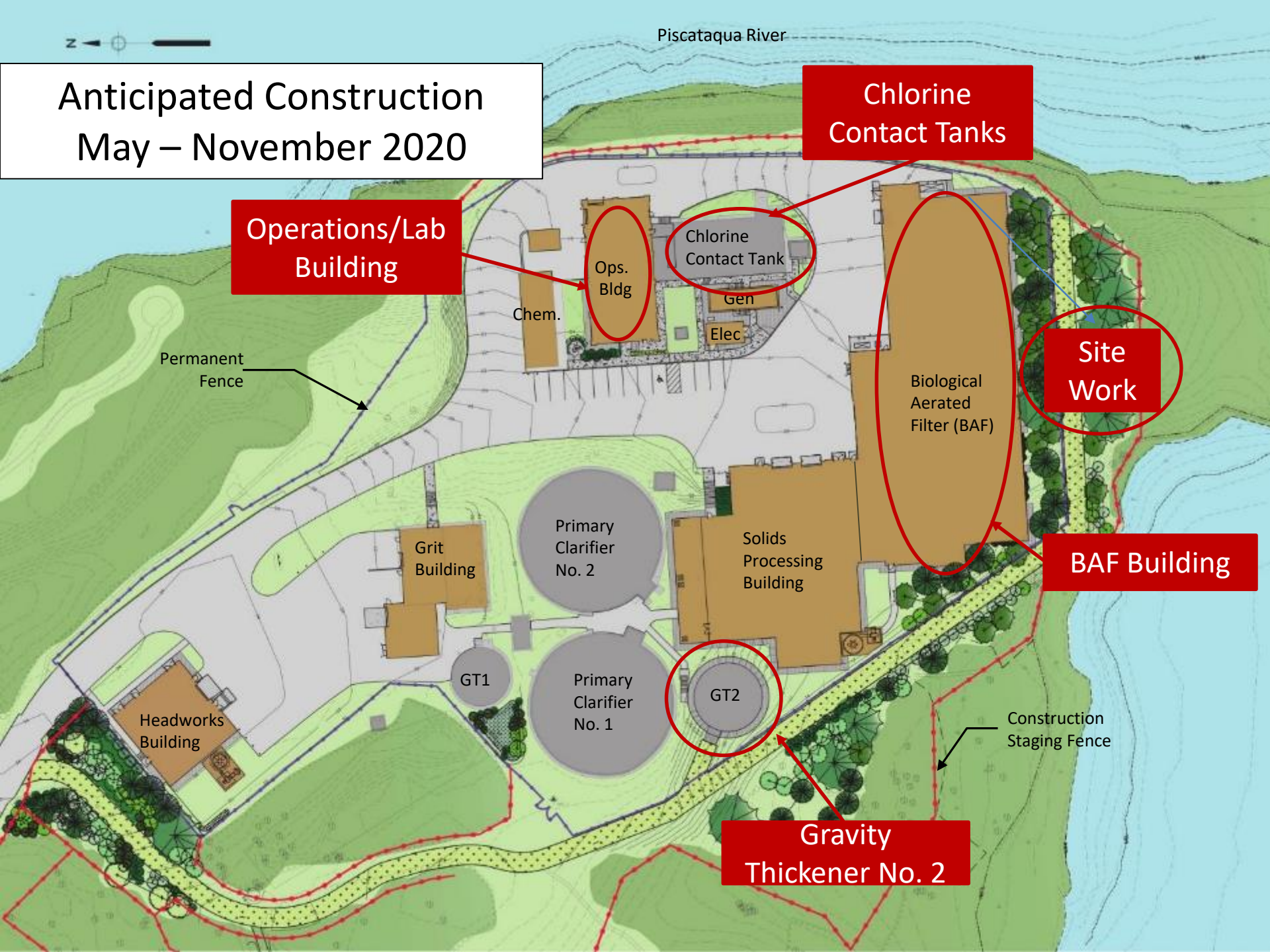
GT1

Primary Clarifier No. 1

GT2

Headworks Building

Gravity Thickener No. 2





# 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
- Change Order No. 7: \$0.169 million
- Change Order No. 8: \$0.113 million
- Change Order No. 9: \$0.242 million
- Total Contract: \$75.022 million



# Consent Decree Schedule

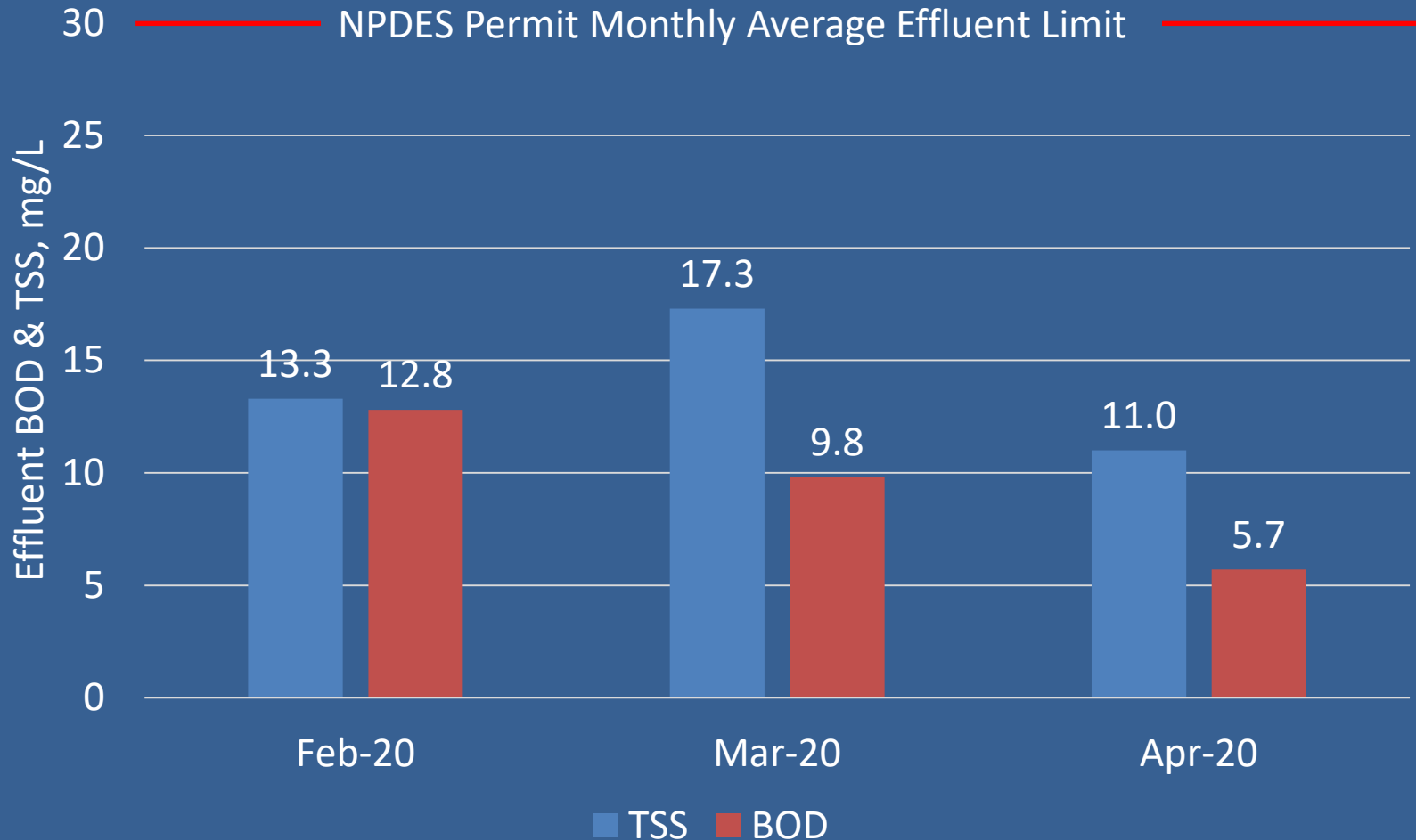
Milestone	Date	Status
Execute Contract to Construct Upgrades	September 1, 2016	Complete
Submit Two Additional Milestones for EPA Review and Approval	December 1, 2016	Complete
Additional Milestone 1: Transfer of the existing SCADA system to the new Headworks Building	November 21, 2017	Complete
Additional Milestone 2: Startup and testing of the Secondary Influent Pump Station in the new Solids Building	May 9, 2019	Complete
BAF Substantial Completion	<del>December 1, 2019</del> December 31, 2019	Complete
Achieve Compliance with NPDES Permit Limits	April 1, 2020	Complete
Achieve Compliance with Consent Decree Total Nitrogen Limits*	June 1, 2020	On Schedule

\*Seasonal Limit May through October

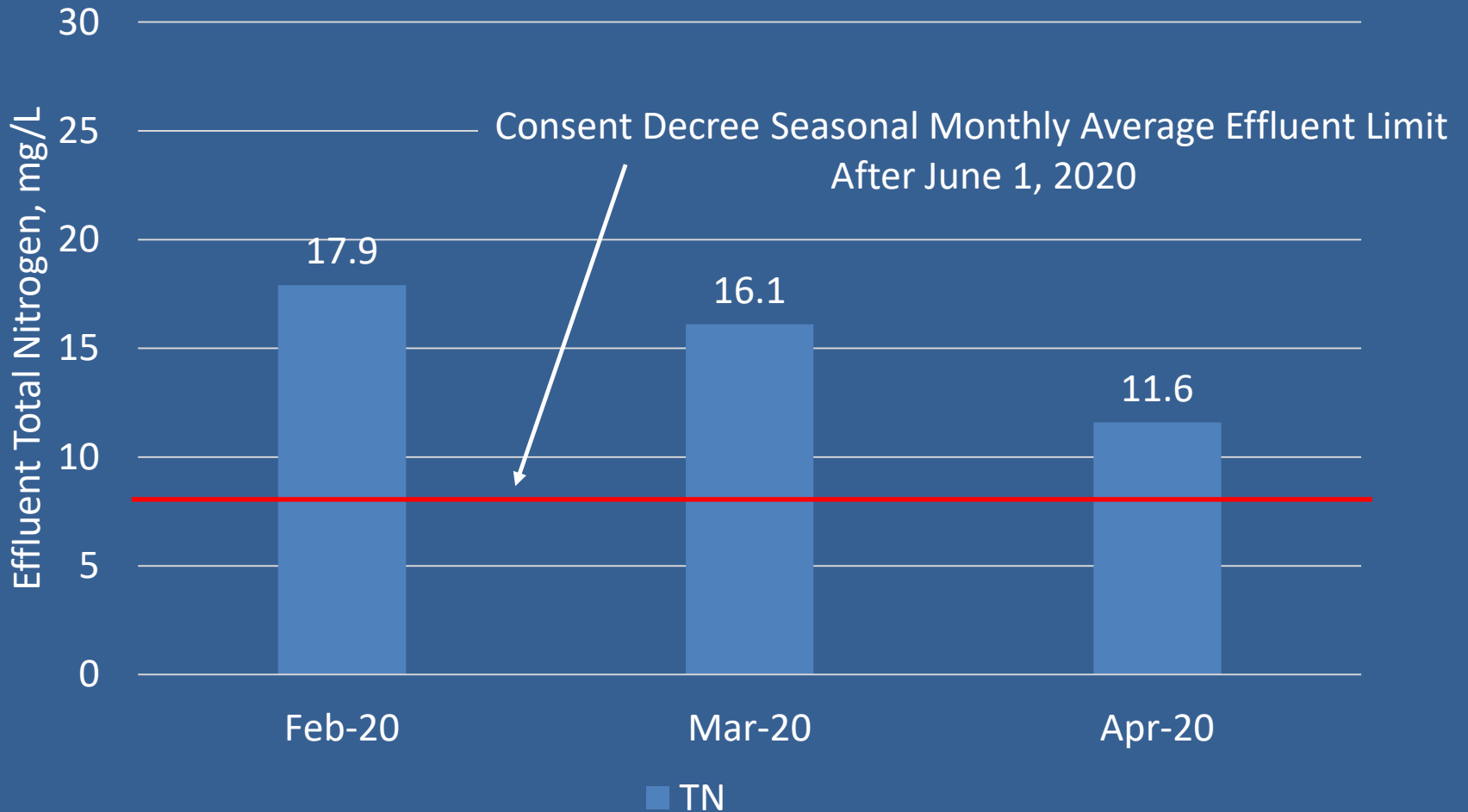




# Effluent Results

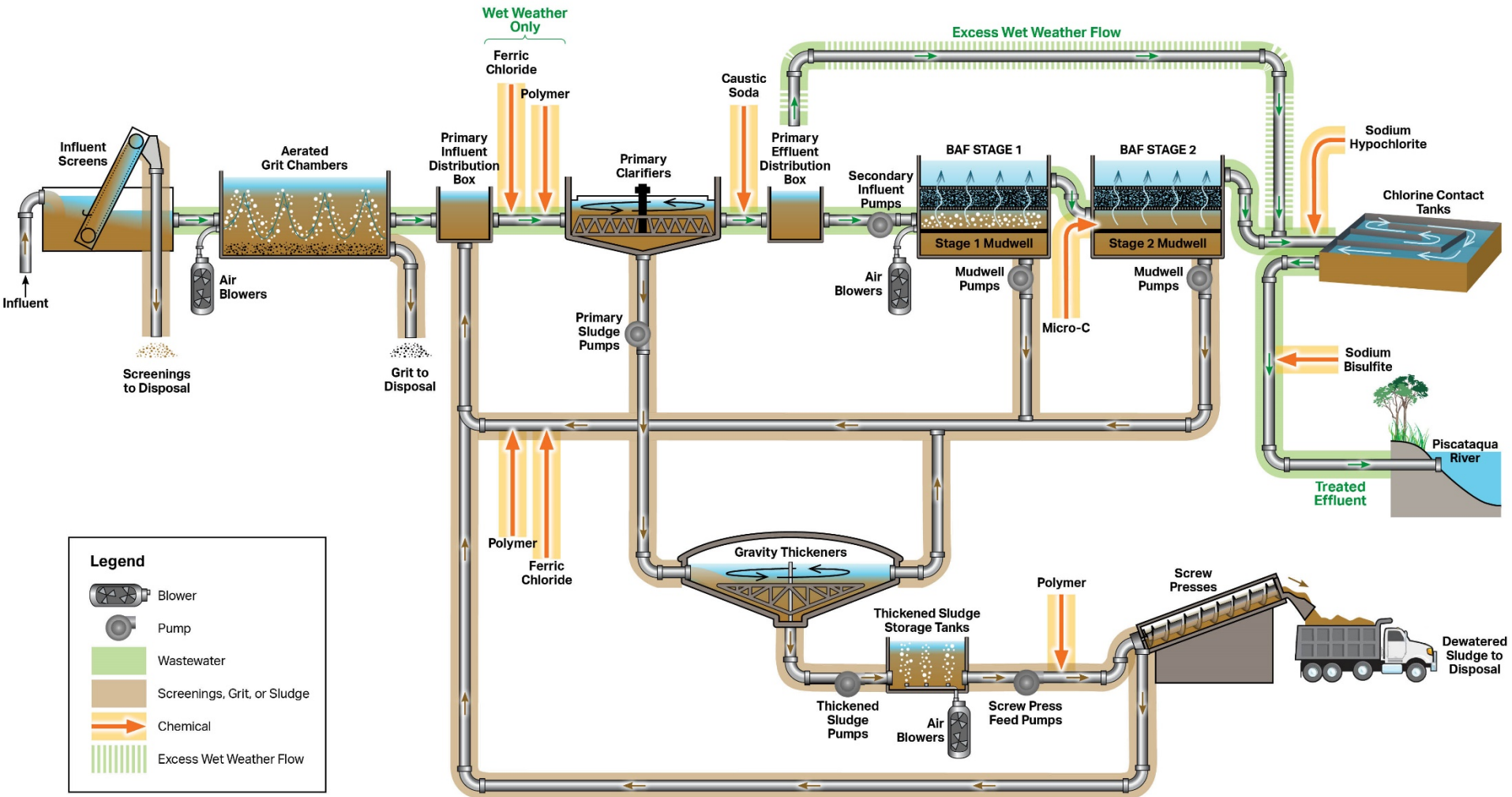


# Effluent Results





# Process Flow Schematic



# PI WWTF Wet Weather Flow Path





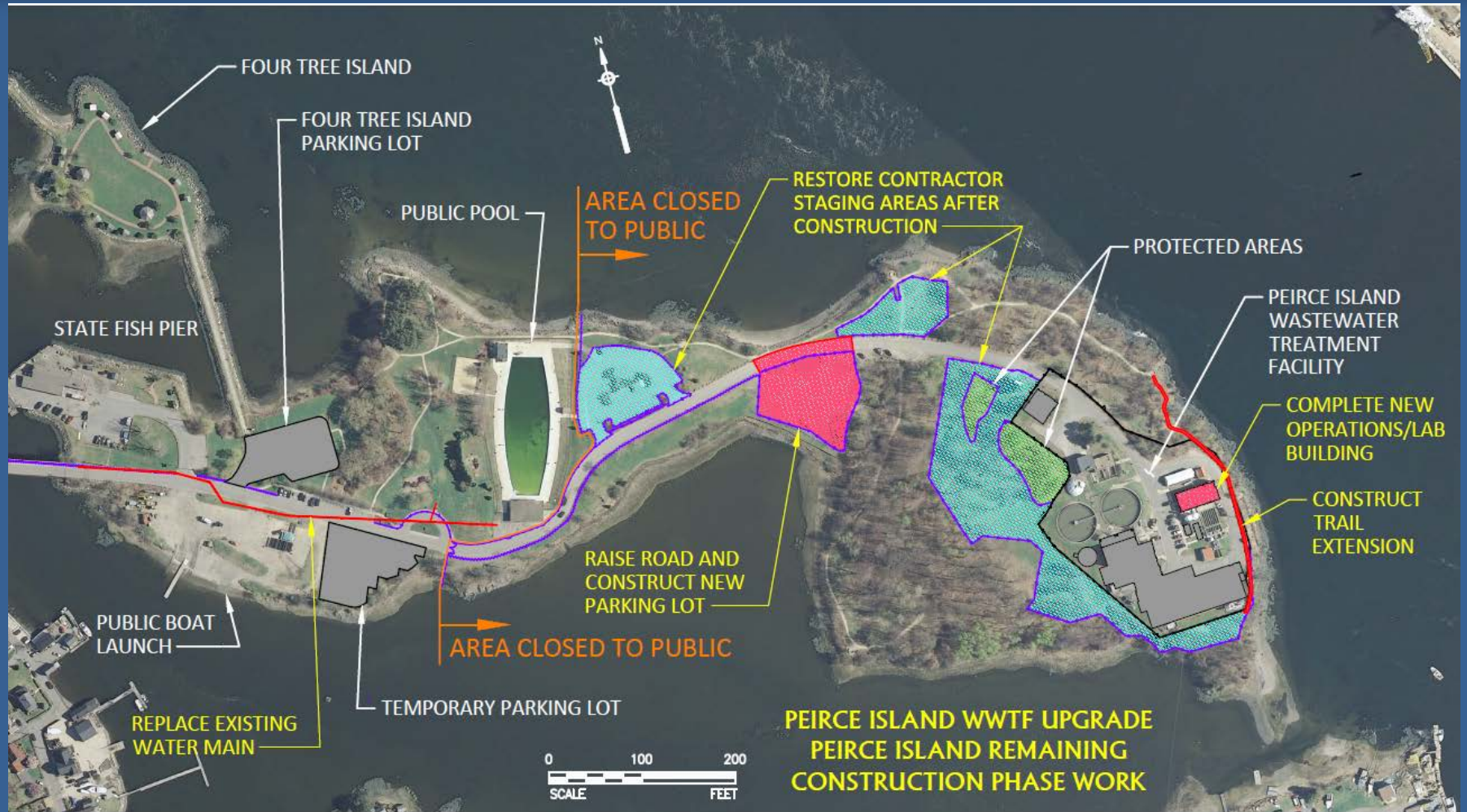
# Events and Recreation

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- Upcoming
  - None scheduled at this time



# Remaining Construction Phase Work







Public Input / Comments / Concerns



# Next Meeting

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- Public Construction Meeting
  - Next Meeting: June 17, 2020, 11:00 AM

