

PEIRCE ISLAND WWTF UPGRADE PROJECT



INTRODUCTION

Construction of the Peirce Island Wastewater Treatment Facility (WWTF) Upgrade Project is complete after four and half years of construction. The project included complete reconstruction of the facility with a new Headworks Building, Solids Building, Biological Aerated Filter Building, Electrical Building, Standby Generator, Gravity Thickener and Operations/Lab Building. Renovations were completed to the Grit Building and Grit Tanks.

The completed facility has significantly improved the quality of treated wastewater effluent discharged to the Piscataqua River.

SITE PLAN



VIRTUAL TOUR

Scan the QR code with your mobile device to view the virtual tour.

PROJECT FACTS

- C Largest Capital Improvement Project in the City's history
- C Construction commenced in September 2016 & completed in October 2021
- Total Project Cost: \$92 million NH State Revolving Fund Loan: \$81.9 million
- Number of Public Meetings: Prior to construction: > 40 During construction: > 50 Weekly construction meetings: > 200
- Construction Progress Tours: 7
- New buildings or tanks constructed: 5
- Amount of rock removed: over 14,400 cubic yards
- C Amount of concrete placed: over 13,500 cubic yards
- Amount of reinforcing steel installed: over 3,400,000 pounds
- Amount of utility pipe installed: over 3 miles

AWARDS

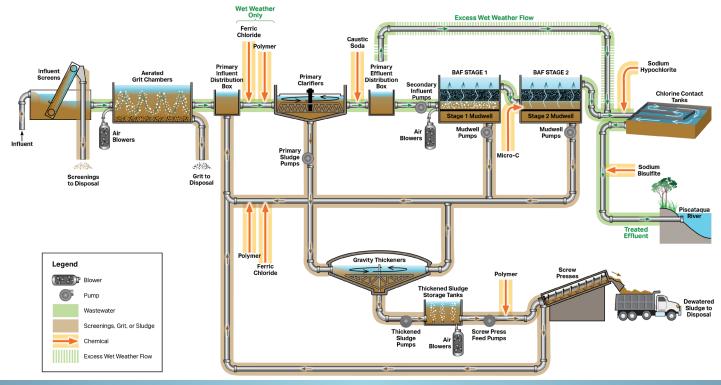


Project Excellence Award Water Environment Federation

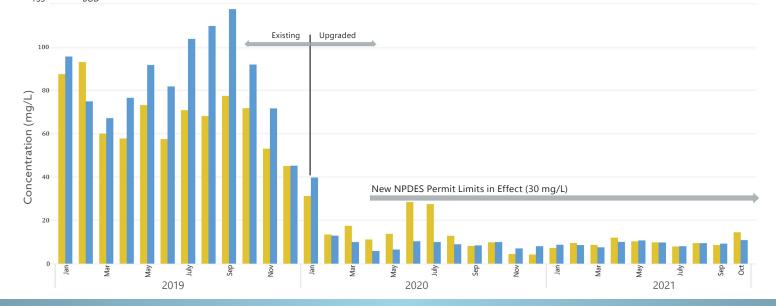


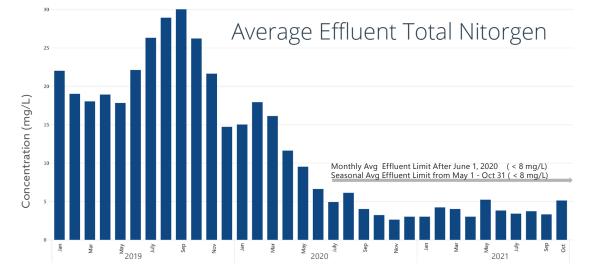
Excellence in Construction Associated Builders and Contractors of New Hampshire and Vermont (ABC NH/VT)

PROCESS FLOW DIAGRAM



Pre- and Post Construction Average Effluent TSS and BOD





Overall WWTF Load Reductions

Total Suspended Solids **88**%

Biochemical Oxygen Demand **90**%

Total Nitrogen **83**%