

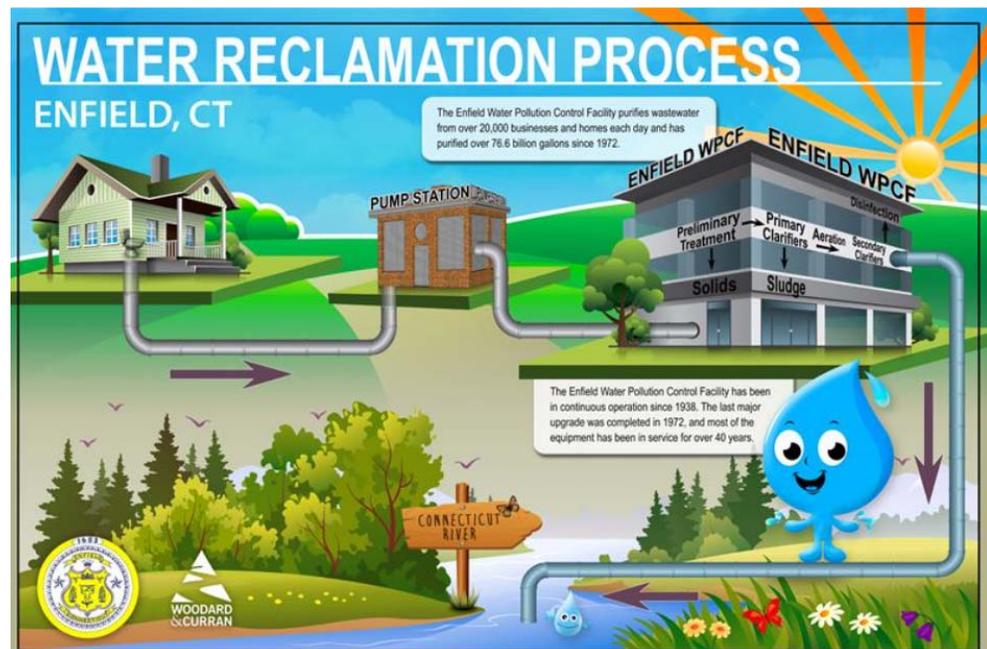


Town of Enfield

Wastewater Program Update

Tonight's Agenda

1. WW program refresher
2. WPCF project update
3. Financial Review
4. Upcoming WPCA action



Project Team



Town Manager

Bryan R.H. Chodkowski

Enfield DPW

Jonathan Bilmes

Water Pollution Control

Kevin Shlatz

Owner's Project Manager

Kevin Flood

Funding/Financial Support

Toby Fedder

Planning, Engineering, Design

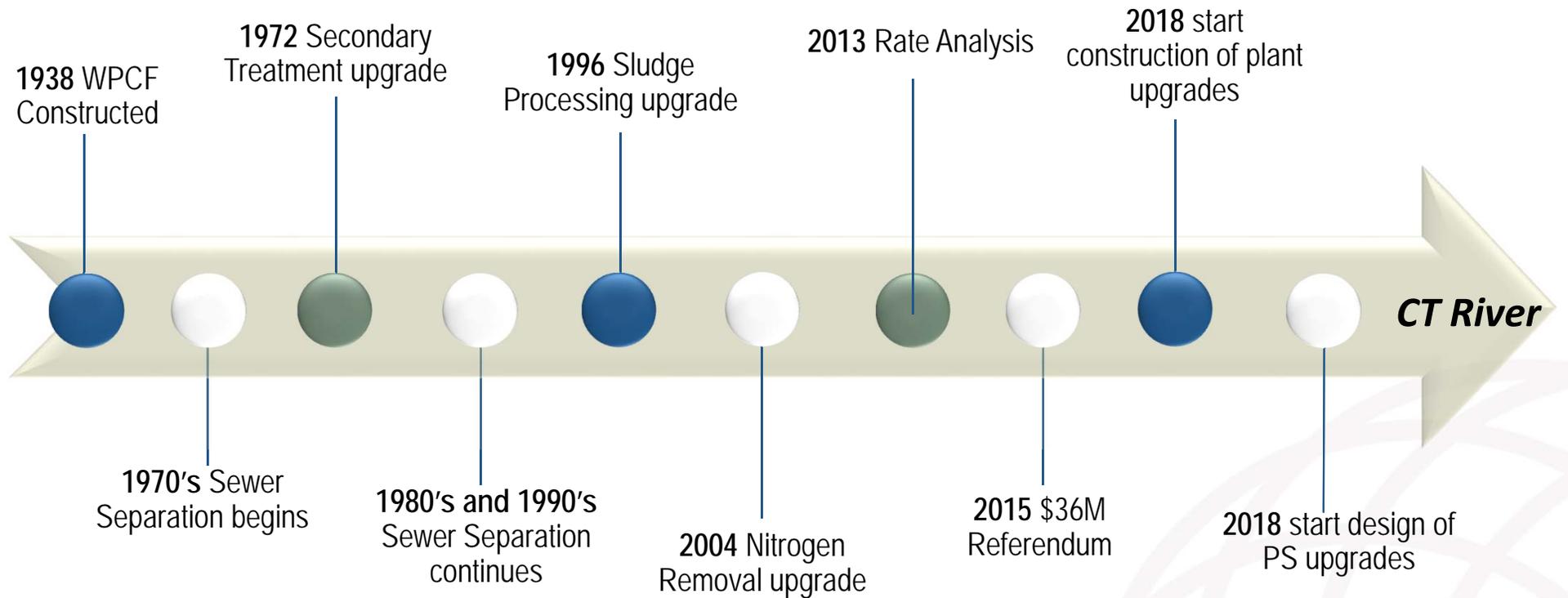
Shelby Beauchemin

Project Management

Jay Sheehan, Tom Schwartz



Brief History of Water Pollution Control in Enfield



2013: Capital Plan & Rate Study

Results

- Full financial review of utility
- Benchmarked Enfield vs other CT WW utilities
- Capital improvement recommendations
 - WPCF equipment upgrades
 - Collection system & PS repair / replacement
 - \$36M total referendum
- Established sewer fee in lieu of Ad Valorem (taxes)



Comprehensive
10 Year Capital
Plan and Sewer
Rate / Fee Study

Enfield Wastewater News | Vol. 1, 2015

Jonathan Bilmes
Dir. of Public Works
860-763-3709
jbilmes@enfield.org

Kevin Shiatz
WPCF Superintendent
860-253-6450
kshiatz@enfield.org

The Town Council and Town Manager Set Enfield Wastewater Action Plan in Motion

As municipal sewer utility operators, we work hard to make sure the sewer system works well and is maintained for decades to come. Our mission is to protect public health and the environment for our communities by providing high-quality wastewater treatment services in an effective, efficient, and responsible manner. In this newsletter, we would like to share details about the investment Enfield's residents have made in the official, and consolidated sewer system that serves over 20,000 homes and businesses each day.

Enfield's 13 sewer utility employees maintain 250 miles of sewer line, 16 pump stations and a 10 million gallon per day capacity Water Pollution Control Facility (WPCF), which has been in continuous operation since 1938. The Town completed the last major upgrade of the facility in 1972, and most of the equipment at the facility has been in service for over 40 years. During that time, the facility has treated more than 77 billion gallons of wastewater.

Investments in wastewater infrastructure in the United States are not adequate. The federal government no longer provides substantial grant funding for infrastructure projects. Wastewater treatment is highly regulated, and communities must meet state and federal water quality standards. New treatment standards have been established since Enfield's last major facility upgrade in 1972. The standards protect the environment and public health, but meeting the standards with a treatment system that is beyond its useful life is becoming increasingly difficult.

There has been no capital allocation for repairs to the WPCF in Enfield since 2004. Repairs have been minor short-term solutions to keep the system running. In addition, emergency repairs are cost-burdening to the town and are not planned improvements.

In 2012, leaders in the Town of Enfield recognized that they were facing the challenge of recovering the wastewater treatment system during a difficult economic time. The Connecticut Department of Energy & Environmental Protection laid out the Town on notice that certain violations would need to be addressed to avoid fines and improvements were needed to address new permit conditions. In addition, the treatment facility was experiencing failures of its decades-old equipment. Town leadership solicited help through an engineering evaluation to better understand the renewal costs we are facing. The Town hired Woodard & Curran as a consulting firm with an office in Enfield to evaluate the capital investment needed at the WPCF and in the collection system. The report determined that \$30 million was needed to get the plant into compliance.

Woodard & Curran and the Town of Enfield developed a capital improvement plan and sewer rate study to identify wastewater collection and treatment needs for the next ten years. The capital improvement plan prioritizes repairs and upgrades and proposes balanced spending over a reasonable timeframe. Sewer fees will not be the only resource available to finance these repairs and upgrades. The plan outlines cost saving strategies and options for securing state Green State Fund grants and low interest loans to help defray the costs of capital improvement projects.

There is a sound plan in place to upgrade and maintain Enfield's wastewater treatment needs now and in the future. This project will be brought to referendum. ■

Wastewater Appreciation Day
May 20, 2015
Open house at the WPCF
80 Parsons Road, Enfield

For More Information:
www.enfield-ct.gov/317/Water-Pollution-Control

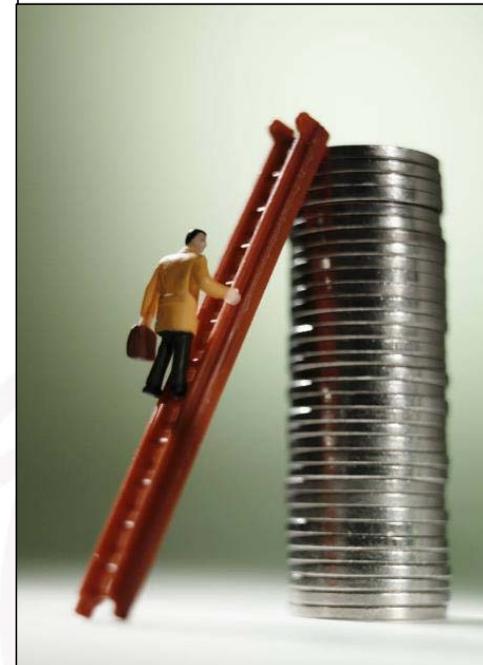
Vol. 1, 2015 | Enfield Wastewater News

Benchmarking Rates: Current sewer rates in CT

Local Municipal Utility	Average Monthly (200 gal/day)	Annual Estimate
Manchester	\$42.49	\$510
South Windsor	\$31.17	\$374
East Windsor	\$30.00	\$360
Suffield	\$25.00	\$300
Enfield	\$22.03	\$264
Somers	\$21.25	\$255

Drinking Water in Enfield

Hazardville \$448/year
Connecticut Water \$741/year



2015: Comprehensive Wastewater Facilities Plan

- Intensive reviews of plant & pump stations
- Met with staff to discuss operational needs
- Structural & mechanical evaluations
- Conducted comprehensive energy evaluation
- 55% grant from State



Public Outreach – where to get information...

Sewer Permit
Fee/Connection Charges
Worksheet

Sewer Use Fee Information

Septage Handling
Information

Fats, Oils and Grease

Water Pollution Control
Upgrade Updates

What Happens After The
Flush

Cured-In-Place Pipeline
Rehabilitation

Facility Tour

Home > Your Government > Departments I - Z > Public Works > Water Pollution Control

Water Pollution Control



Click
Here

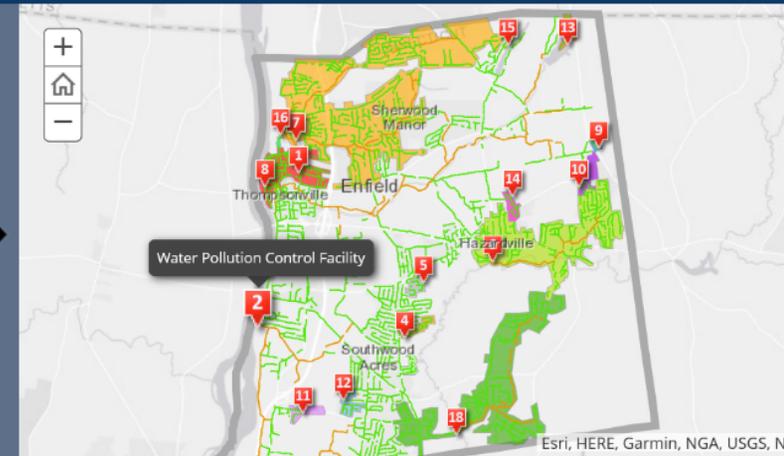
Enfield Sewer Map

Woodard & Curran Story Map



Water Pollution Control Facility

In 2012, leaders in the Town of Enfield recognized that they were facing the challenge of renewing the wastewater treatment system. The Connecticut Department of Energy & Environmental Protection had put the Town on notice that violations would need to be addressed to avoid fines and improvements were needed to address new permit



www.enfield-ct.gov



Meeting Minutes 2016/17



Water Pollution Control Facility



Sharp St



Sparkle Rd



Indian Run

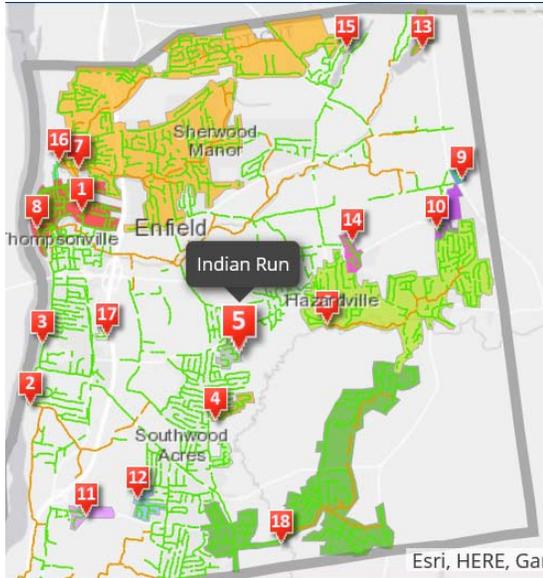


South Maple St



Grape Brook

Collection System needs...



3 Sharp St



4 Sparkle Rd



5 Indian Run



6 South Maple St



7 Grape Brook



8 South River St



9 Moody Rd



10 Taylor Rd



11 Pheasant Hill



12 Plainfield St



13 Brookside Rd



14 High Meadow



15 West Shore Dr



16 Windsor Court

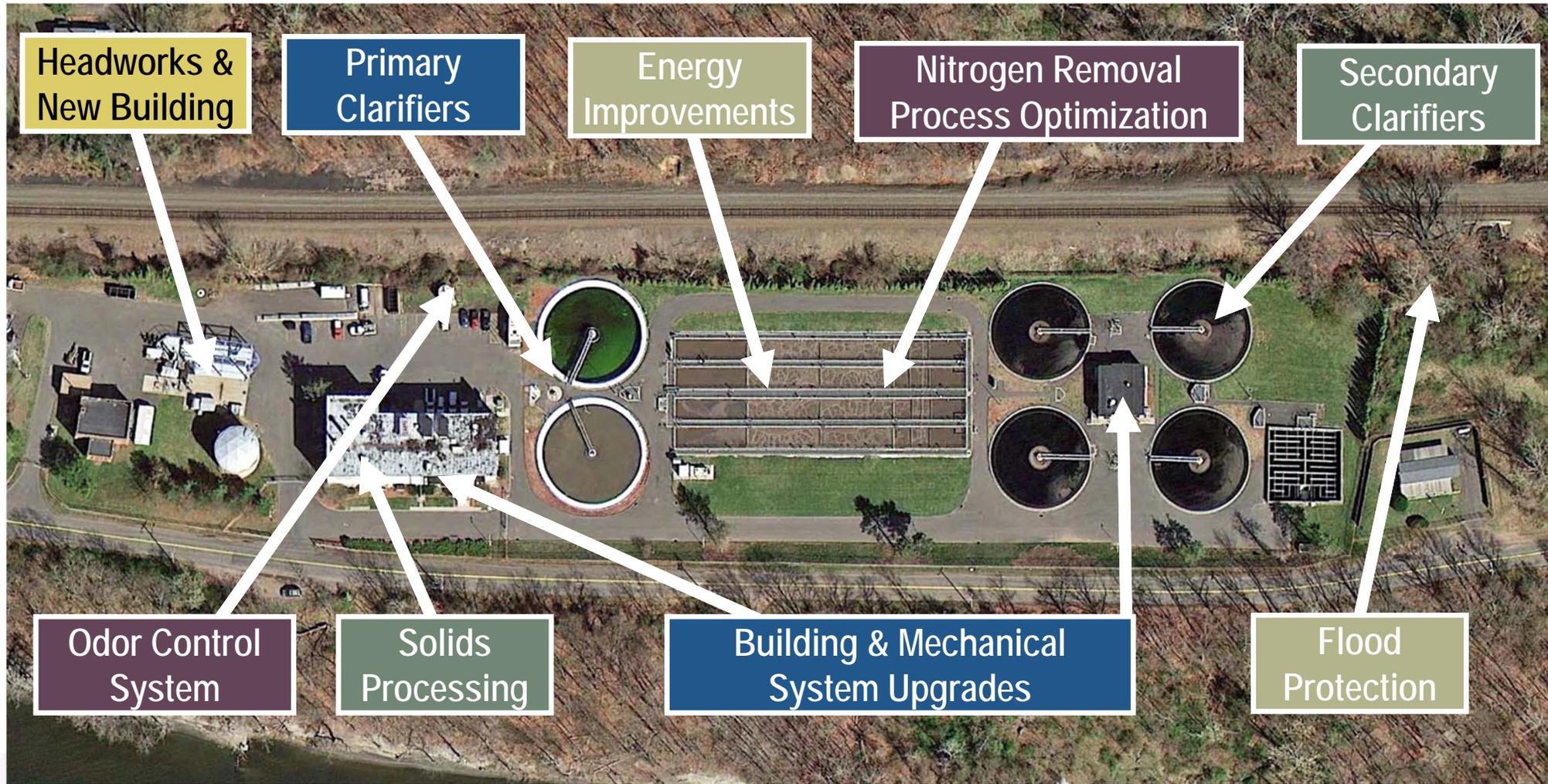


17 Enfield Terrace



18 Simon Rd

Water Pollution Control Facility needs...



What Surprised Us at the Plant?

Unanticipated

- Remediation more extensive
- Building deterioration more extensive
- Flood protection requirements



List of approvals & pending approvals...

- CTDEEP
- Railroad (Amtrak - unanticipated)
 - Initial Package Provided Oct. 31, 2017 & updated Dec. 22, 2017
- P&Z
 - Meeting Nov. 16, 2017
 - Approval letter dated Nov. 20, 2017
- ZBA
 - Meeting Dec. 18, 2017
 - Approval letter dated Jan. 2, 2018
- Inland Wetlands
 - Inland Wetlands & Watercourses Permit June 7, 2017



Benchmarking Capital: Recent Upgrades in Connecticut

Local Municipal Utility	Plant Capacity	Upgrade Cost	Year of Upgrade
Manchester	8.25 MGD	\$51M	2011
Milford	11.4 MGD	\$46M	2009
Ansonia	3.50 MGD	\$42M	2012
South Windsor	3.75 MGD	\$36M	2012
Glastonbury	3.64 MGD	\$31M	2011
<i>Enfield</i>	<i>10.0 MGD</i>	<i>\$26M</i>	<i>2018</i>
Simsbury	2.85 MGD	\$21M	2007

Project Alternates to Consider

1. Additional Gravity Thickener
2. Additional Influent Screen, Washer, Grinder and Compactor
3. Additional Blowers
4. Carbon Polisher for Odor Control Bioscrubber
5. Generator Load Bank
6. Retrofit Handrails
7. Pre-finished Aluminum Panels at Sludge Pump Station

*Estimated additional
cost \$2.7M*

--- WPCF bids due February 1st---

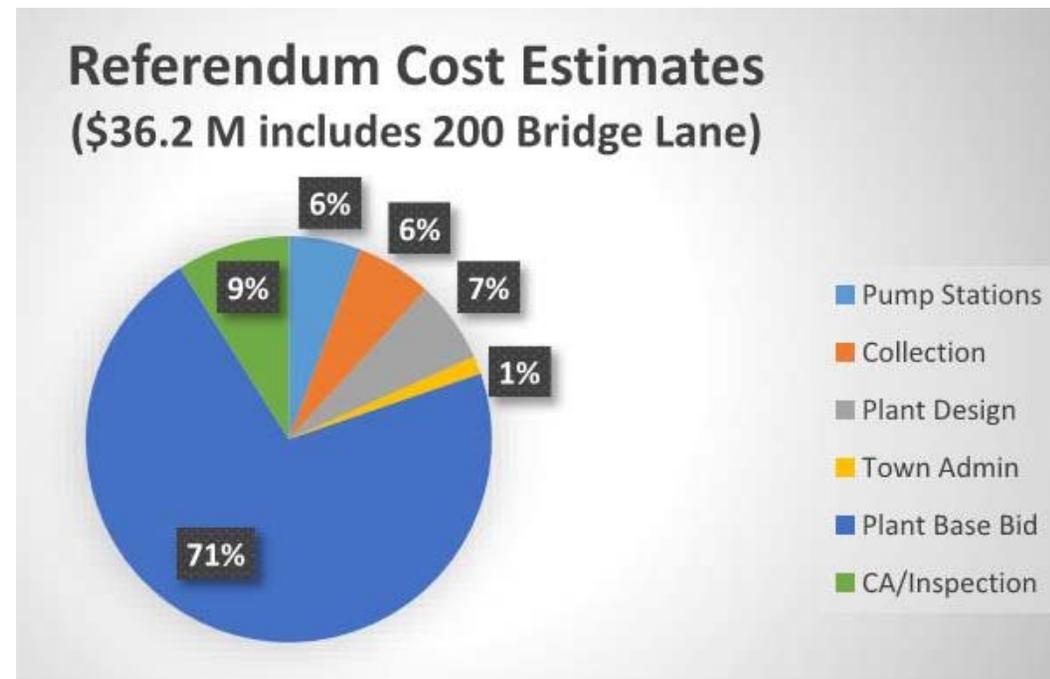
How much does this cost?

\$36.0M 2013 Total Capital need (Referendum)

-\$ 3.5M State Prison contribution (approximately)

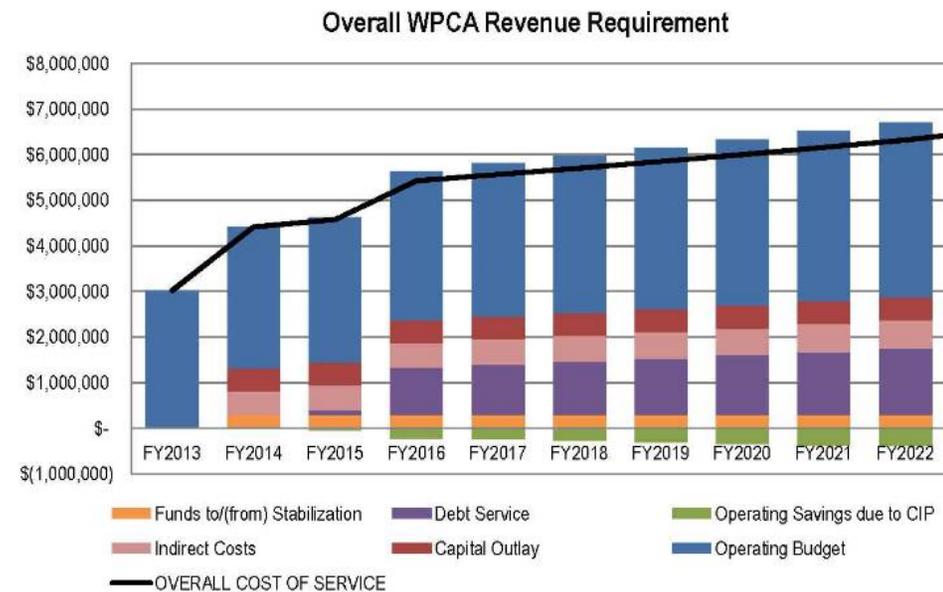
-\$ 4.8M CWF Grant

\$27.7M in current rate model



Capital Plan & Rate Study

1. Initial Financial Plan - Fall 2013
2. Developed overall Cost of Service, including Capital Improvements (~\$36M through FY23)
3. Two-tiers rates adopted 2015.
4. Established a revenue goal of ~\$5.2M through 2018.
5. Rates to be adjusted upon receipt of WWTF bids & completion of the rate analysis.



Next steps...

- Status update to Town Council – tonight!
- WPCF Construction Bids due – February 1st
- WPCA bid waiver request (consultants– Feb. 5th)
- Submit grant application
- Decisions on “Project Alternates” – mid-February
- Rate review & recommendation February/March
- Contract Award – early March
- Construction begins – Spring
- Adopt revised sewer rates - Spring





Thank you!



Q&A

