Sagamore Avenue Sewer Extension City Council Meeting

City of Portsmouth, NH

February 3, 2020



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Introduction

Origin of the Sagamore Sewer Project

 Addressing Public Questions and Concerns at Public Meetings

Motion for Work Session



Origin Of This Project

- Pre 2005 Failed Septic And Use Of Holding Tanks
- 2005 Project First Appears CIP
- 2008 Engineering Study
- 2010 Bacteria Study by DES
- 2011 Engineering Update
- 2014 Great Bay Non-Point Source Study (DES)



Incorporation of Project into Consent Decree

- Supplemental Environmental Project
 - Keeps the dollars local
 - Delivers local environmental benefits
 - Links with other projects in the watershed
 - DPW Area Stormwater Treatment Project
 - Water Quality Monitoring
 - Lafayette Road (DOT) Stormwater Project
 - Peverly Hill Road Stormwater Improvements
- March 2016 City Council Approves Consent Decree Second Modification

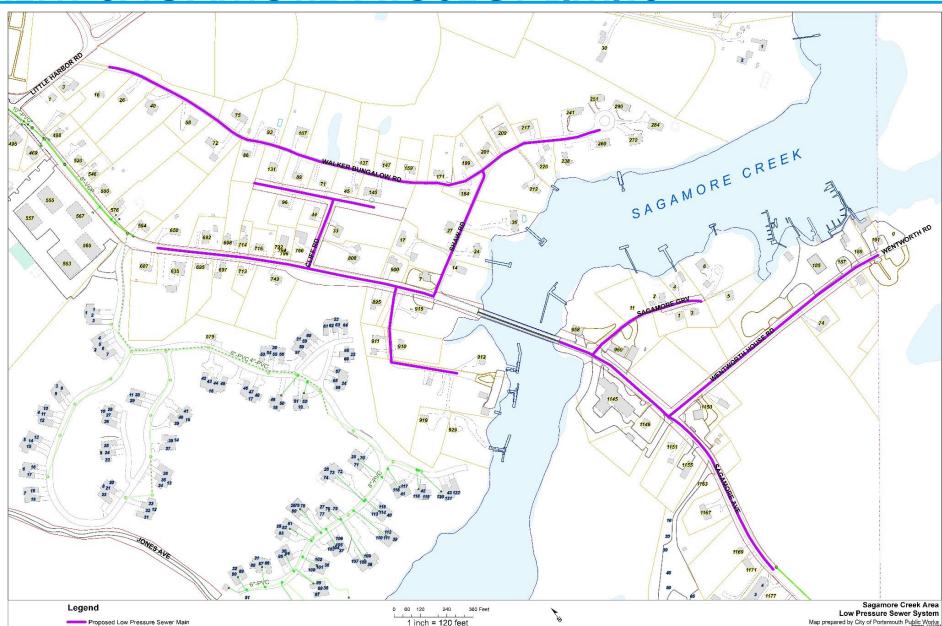


<u>Implementation</u>

- 2018/2019 FB Environmental Completed Water Quality Sampling
- 2018 Sagamore Ave Sewer Extension Preliminary Design Report
- July 2019 City Council Bond Authorization



CURRENT SAGAMORE PROJECT LIMITS





Important Project Points

- Property Owners Will NOT Be Required To Tie-In If They Have A Functioning Septic System
 - Sewer Use Ordinance update will include this provision
- Property Owners Will Have To Tie-In If Their Septic System Fails
 - New Hampshire Department of Environmental Services (DES) will not issue a permit for a septic system replacement

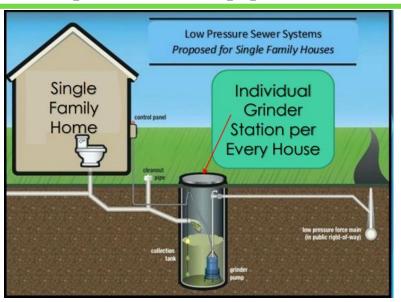


Public Meetings

- September 4, 2019 Public Meeting at DPW
 - Kickoff to field work
 - Cost apportionment greatest concern
- Questions Received at Multiple City Council Meetings
- November 25, 2019 Public Meeting at Council Chambers
 - Responses to questions
 - Updated cost proposal
- December 9, 2019 Public Meeting at Council Chambers
 - Defined future City Council decisions needed

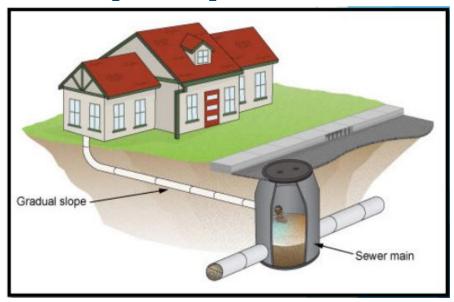


Sewer System Type - Low Pressure (LPSS)



Low Pressure Sewer System

- Advantages
 - Lower construction costs due to shallower bury depth of pipe (Shallow ledge in project area)
 - Is not dependent on grade and topography
 - Less invasive construction
- Disadvantages
 - Higher property owner annual operation and maintenance costs



Gravity Sewer (No Pressure)

- Advantages
 - Lower long term costs to the home owner
- Disadvantages
 - Higher construction costs
 - More invasive/destructive construction
 - Requires pump stations based on topography
 - Requires permanent easements for cross country sewer lines



EONE Low Pressure Pump Stations

- Long Track Record
 - 60,000 Installs in New England
- Industry Standard
- Simple And Reliable, Least Amount Of Worry
- 10-15 Year Pump Life Span
- Local Installation And Long Term Ownership Have Been Successful

D-Series | DH071 & DR071 Grinder Pump Station



Typical
Annual
Electric
Cost: \$36



Existing EOne Pump System In Place

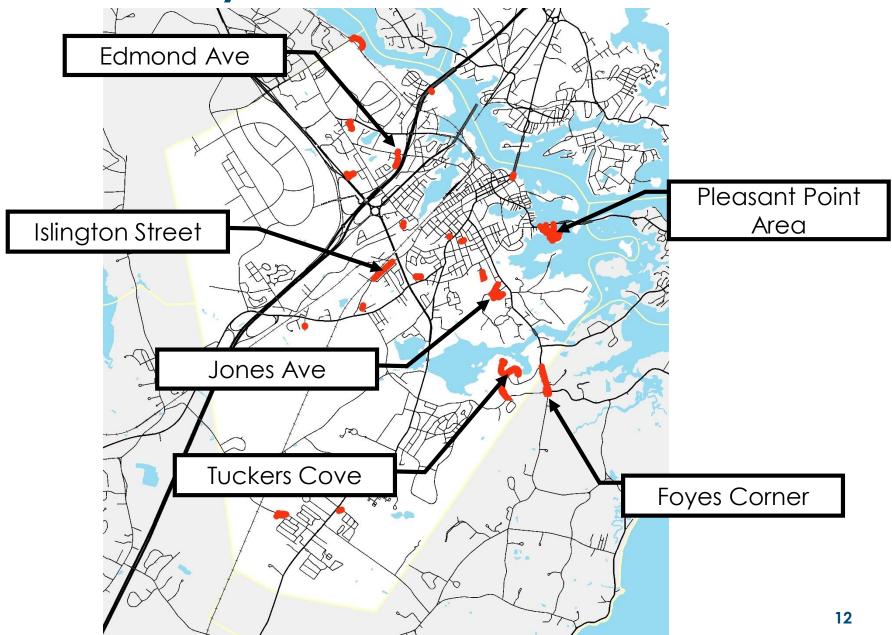


Pump Cover

Electrical Panel

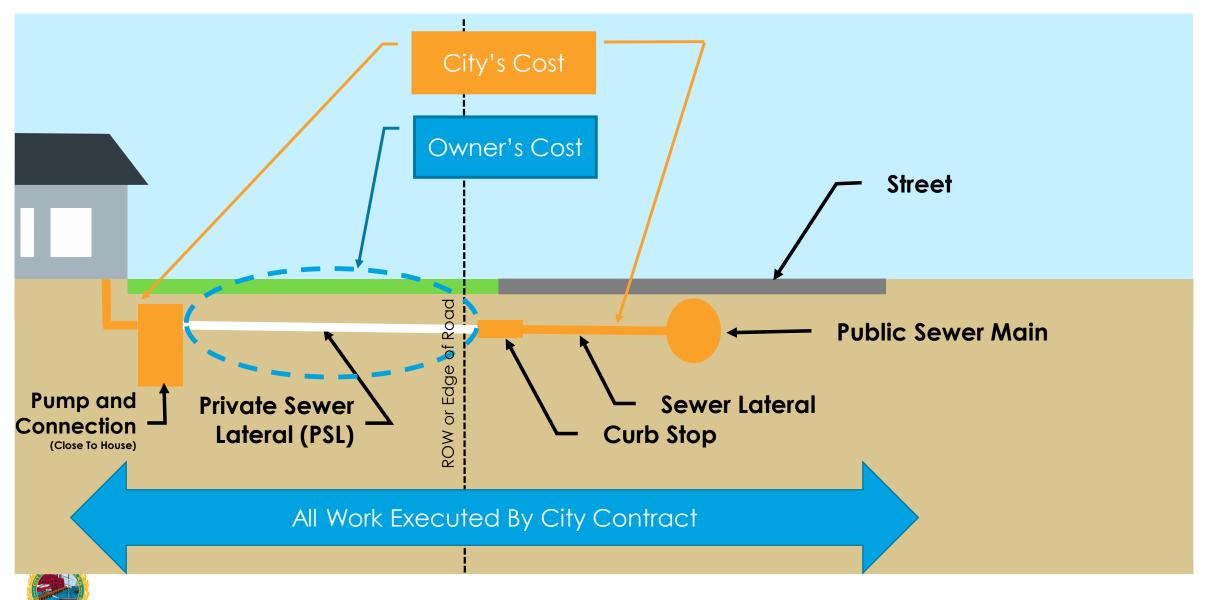


Current LPSS In the City of Portsmouth





Cost Apportionment Proposal For City Council Consideration



Motion for Work Session

- Sagamore Ave Sewer Extension Work Session to Address Outstanding Policy Decisions Such As:
 - Cost Apportionment
 - What Happens At Sale Of Property
 - How to Handle Properties That Do Not Connect Until Later
 - If the Cost to Abandon Existing Septic Will be Private or City
 - Who Pays for Replacement of Pump at End of Life (~15 Year Mark)
 - Who Pays for Maintenance of Pumping System
 - Additional Funding Authorization

