



Water Treatment Plant Project Update

July 13th, 2022



Agenda



- ▶ Opening Remarks
- ▶ Website Update and New Content
- ▶ Can the Existing OOB WTP Site be Used for the New WTP?
- ▶ Should Operations be Separated Between Multiple Sites?
- ▶ Typical Abutter Impacts
- ▶ Open Comment
 - Use "+1" to agree
 - Please limit yourself to 3 minutes
- ▶ Closing Remarks



Opening Remarks



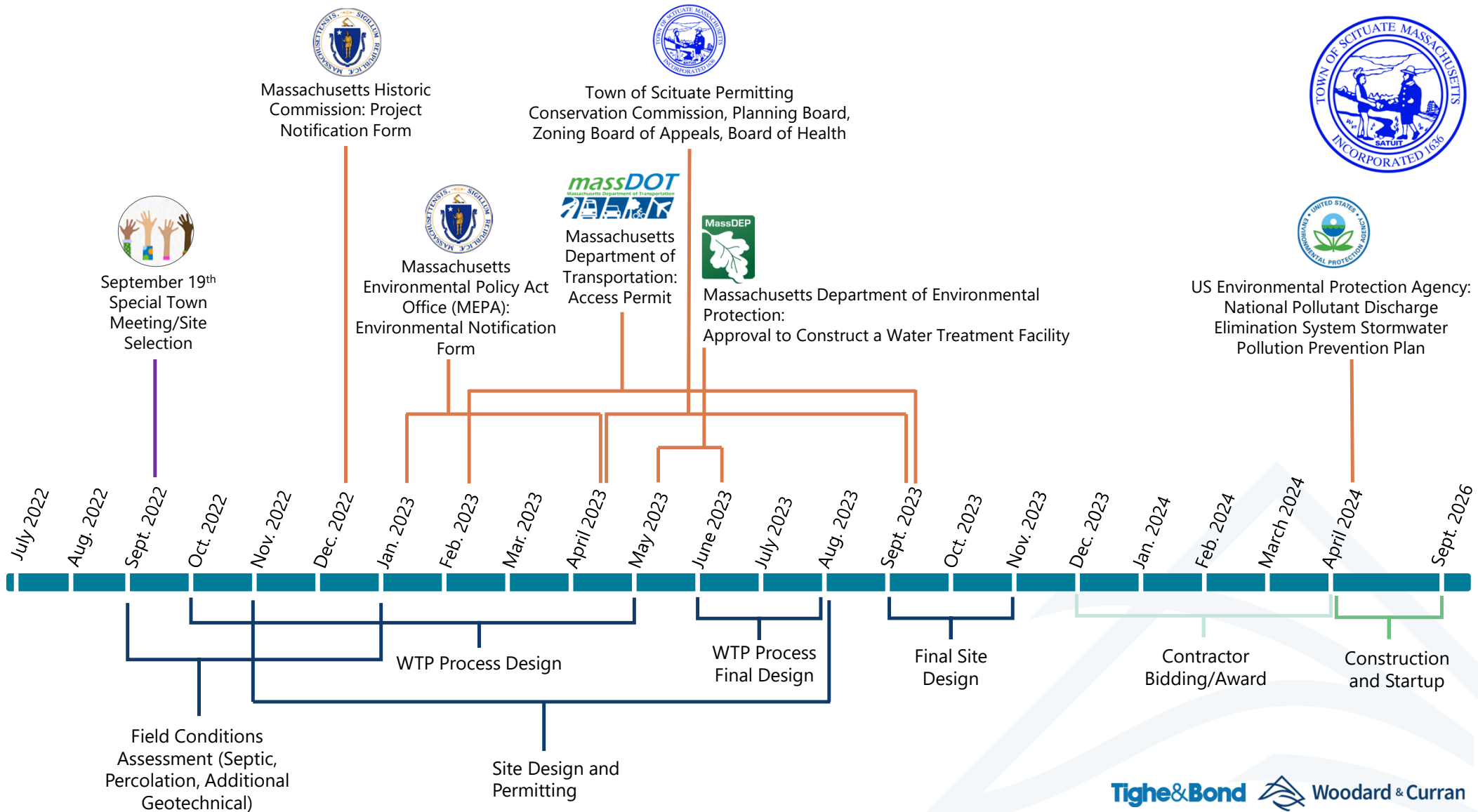
Schedule

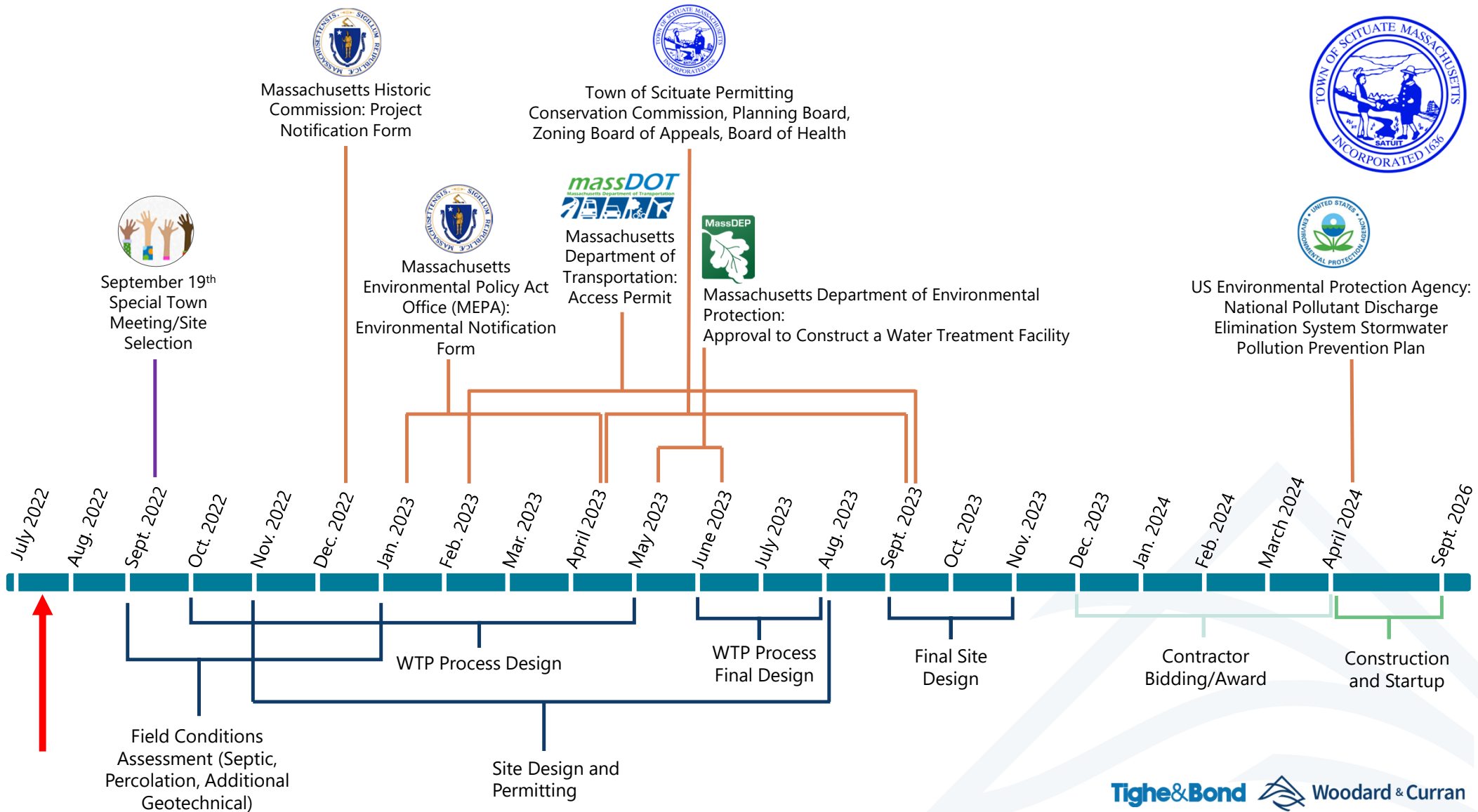
Work Done to Date

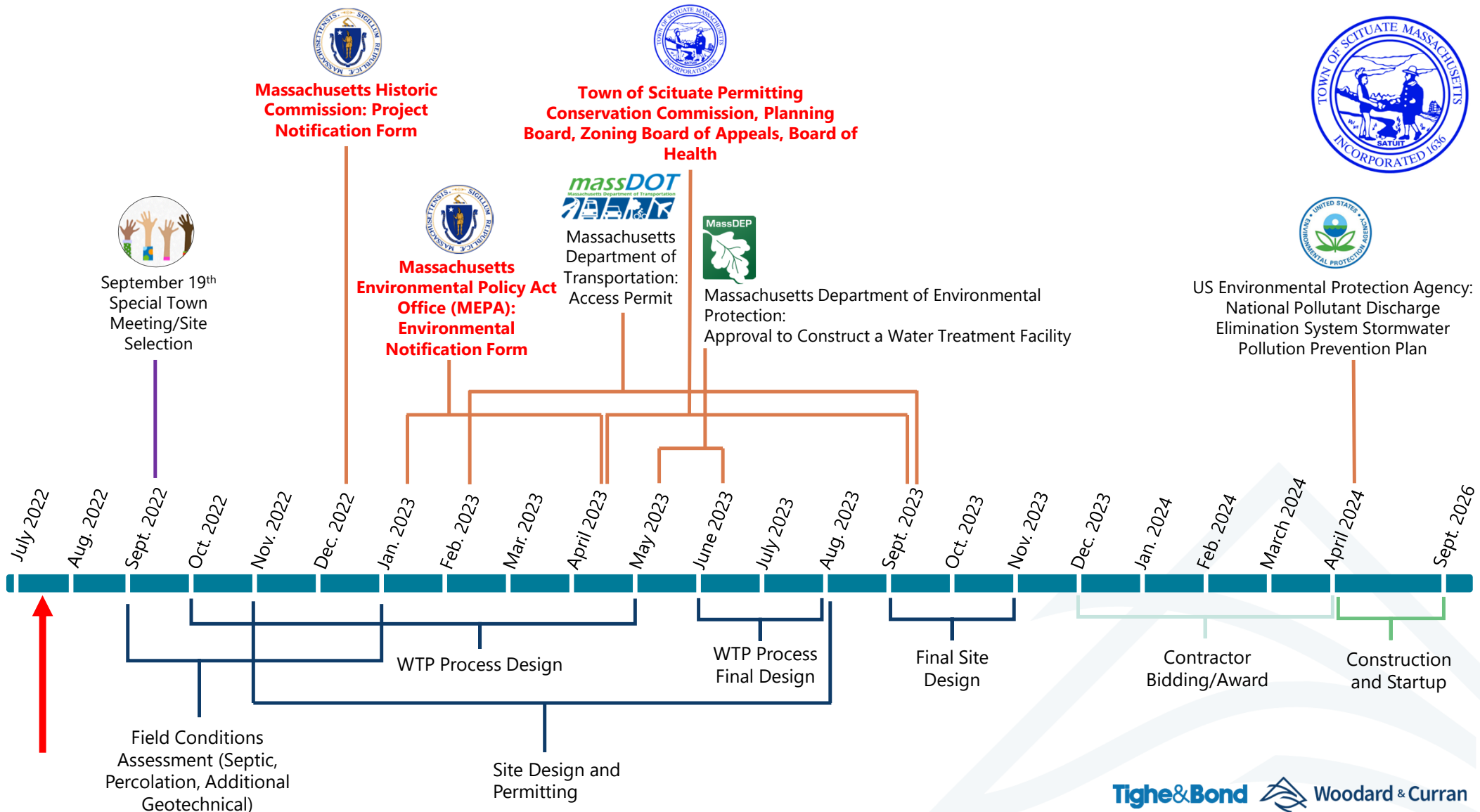


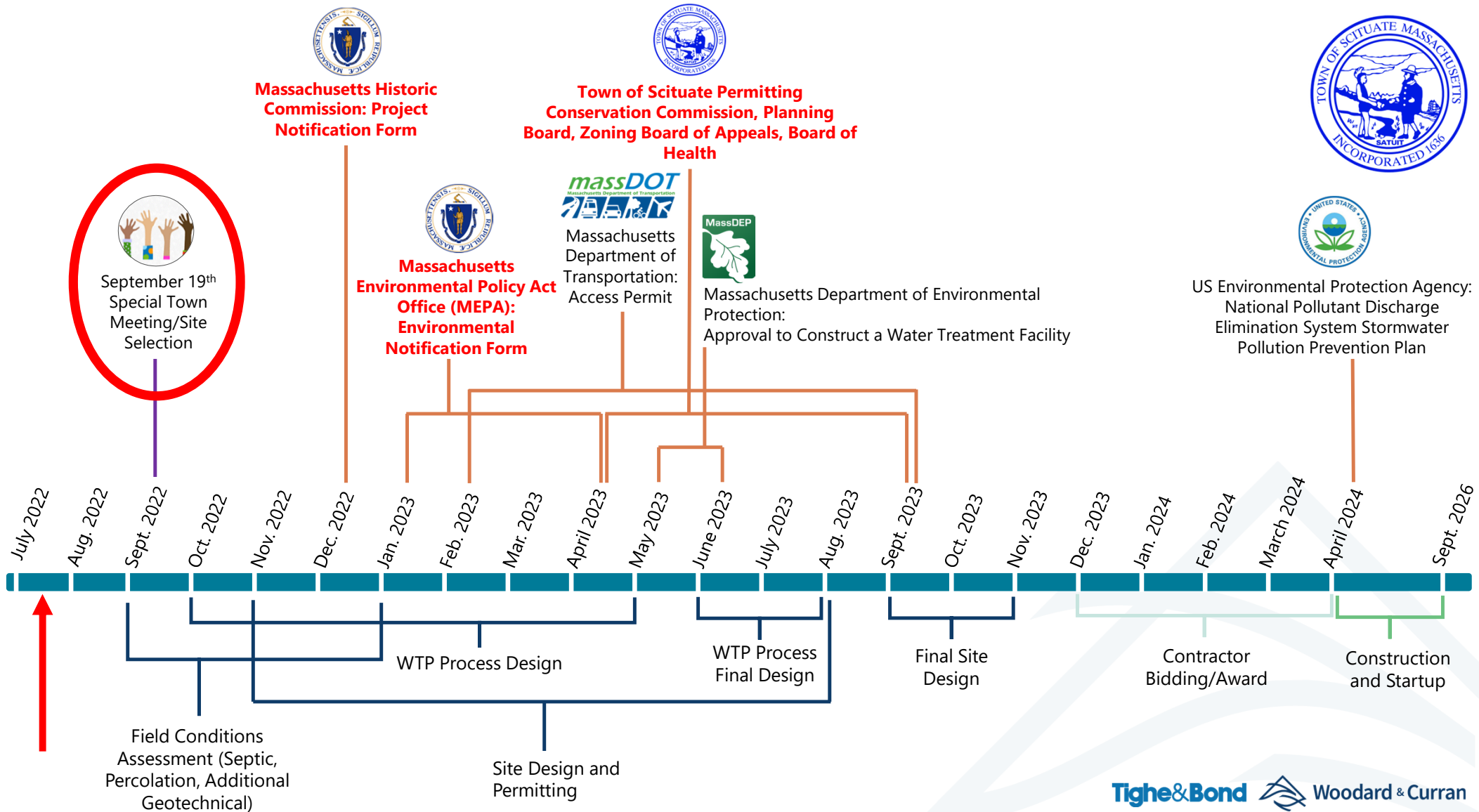
- ▶ 3 Phases of State Required Pilot Testing
- ▶ Preliminary Geotechnical Investigation
- ▶ Survey
- ▶ Identification of Design Criteria













Website Update and New Content

New Website Information



FAQ's - 1. Need For New Treatment Facility
FAQ's - 2. Location
FAQ's - 3. Cost
FAQ's - 4. Social Impacts
FAQ's - 5. Treatment Process/Design
FAQ's - 6. Environmental Impacts
Project and Permitting Timeline
Residuals Management
Traffic Safety
WTP Site Alternatives Evaluation

SCITUATE MASSACHUSETTS

REPORT AN ISSUE AGENDAS & MINUTES Search

About Government Residents Businesses Visitors Master Plan Third-Party Notice of Data Incident

HOW Do I ... ?

FAQ's - 1. Need For New Treatment Facility

FAQ's - 2. Location

FAQ's - 3. Cost

FAQ's - 4. Social Impacts

FAQ's - 5. Treatment Process/Design

FAQ's - 6. Environmental Impacts

Project and Permitting Timeline

Residuals Management

Traffic Safety

WTP Site Alternatives Evaluation

Covid-19 Information Read more >

Home

New Water Treatment Plant Project

Scituate Water Treatment Plant Project

The Town of Scituate is working hard to improve the drinking water quality for all residents. Multiple drinking water projects are being pursued including the design and construction of a new drinking water treatment plant. As the Town of Scituate works to ensure safe, clean water, we realize the importance of keeping the community informed about the status of the project and ensuring they understand the decisions that are being made.

The Town will be using this webpage to distribute information about the water treatment plant project. We will be updating this webpage periodically so please check back regularly for new information. If you would like to be notified periodically for major updates, please sign up to our email list by going to the following link:

<https://tinyurl.com/scituatetwtpemallist>

And while we are putting new information out here, we haven't stopped listening to you. The input of Town residents is critically important to our process and we appreciate the community input received thus far. If you have any comments, questions, or concerns please contact Sean Anderson, Water Superintendent. We look forward to working with the community on this project as we move forward.

News

- Water Treatment Plant Meeting TONIGHT
- Water Main Break/Brown Water Alert
- Update from the Town of Scituate
- Astronomical High Tides
- BEACH SAMPLING RESULTS FOR JULY 8, 2022

View all



Can the Existing Old Oaken Bucket WTP Site be Used for the New WTP?

Residuals Management

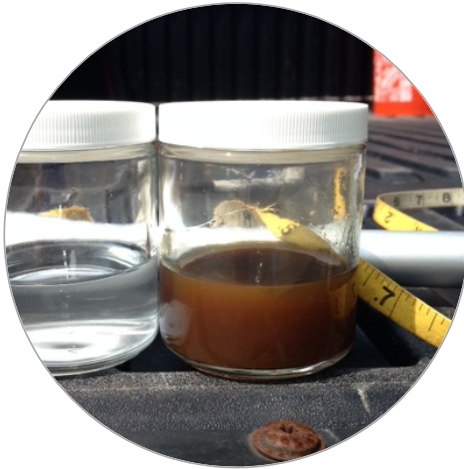


- ▶ Process residuals is a key driver of design criteria
 - OOB Water Treatment Plant discharges residuals to the sewer
 - The Town's sewer and wastewater treatment facility cannot handle additional residuals of the new facility the
 - Wastewater treatment facility would need rehabilitation and capacity upgrades
 - Sewer infrastructure would need to be upgraded
- ▶ The limitations on sewer capacity resulted in a design decision to manage the residuals stream via an on-site lagoon system
 - Eliminates ~16 to 20 million gallons of water per year discharged to the sewer



Residuals Lagoon in Falmouth, MA

Zero Liquid Discharge



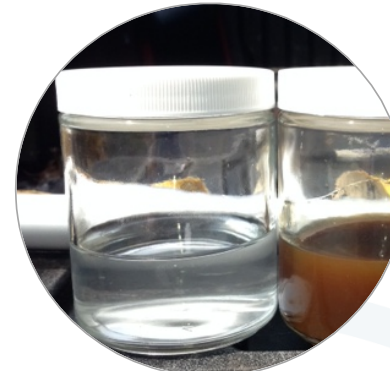
**Process
Residuals**



Zero Discharge
Lagoons with
Filtration & Underdrain System



Dry Solids
Periodically hauled offsite for
disposal



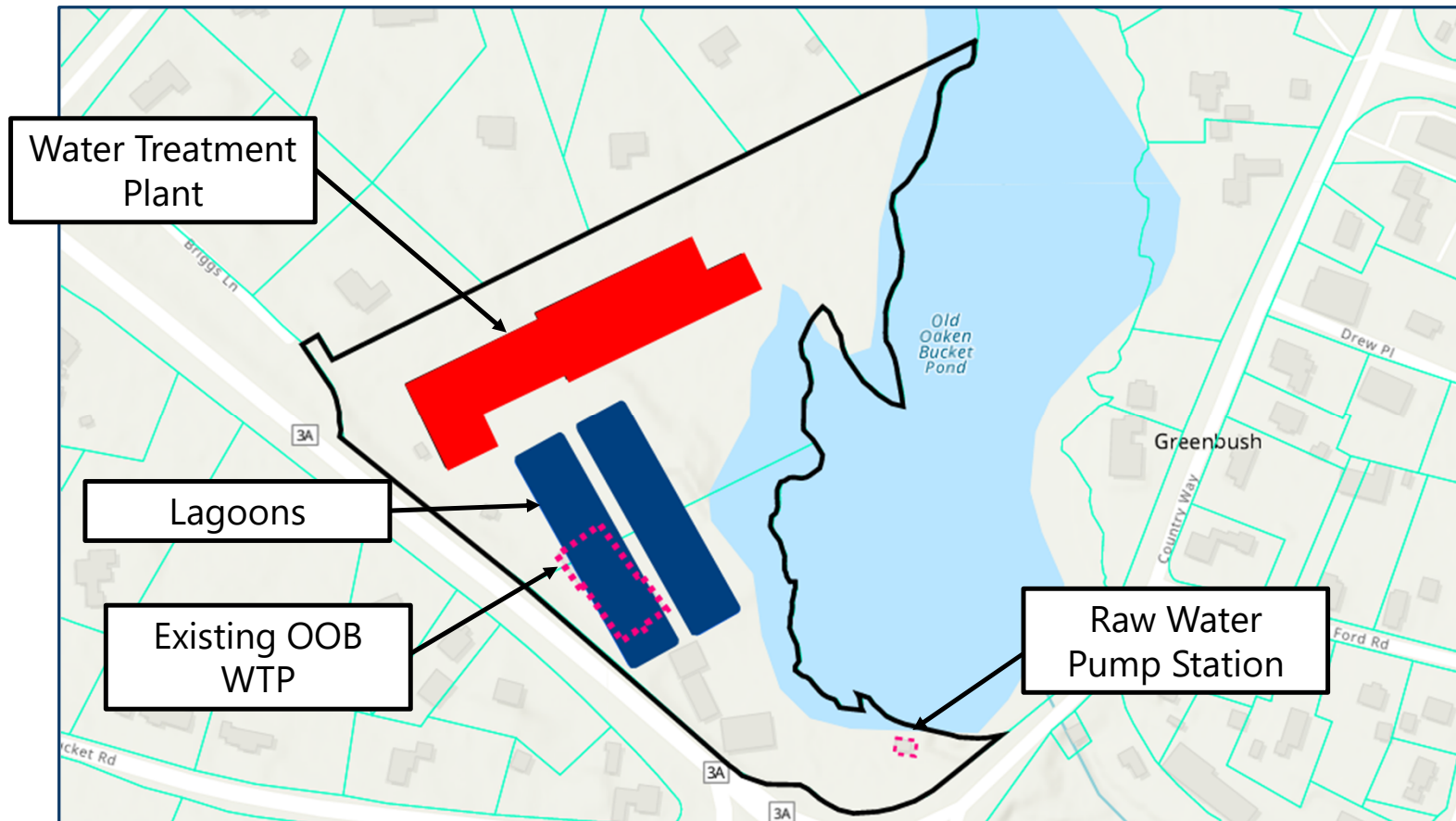
Clean Lagoon Filtrate
recycled to the treatment facility

Existing OOB Site

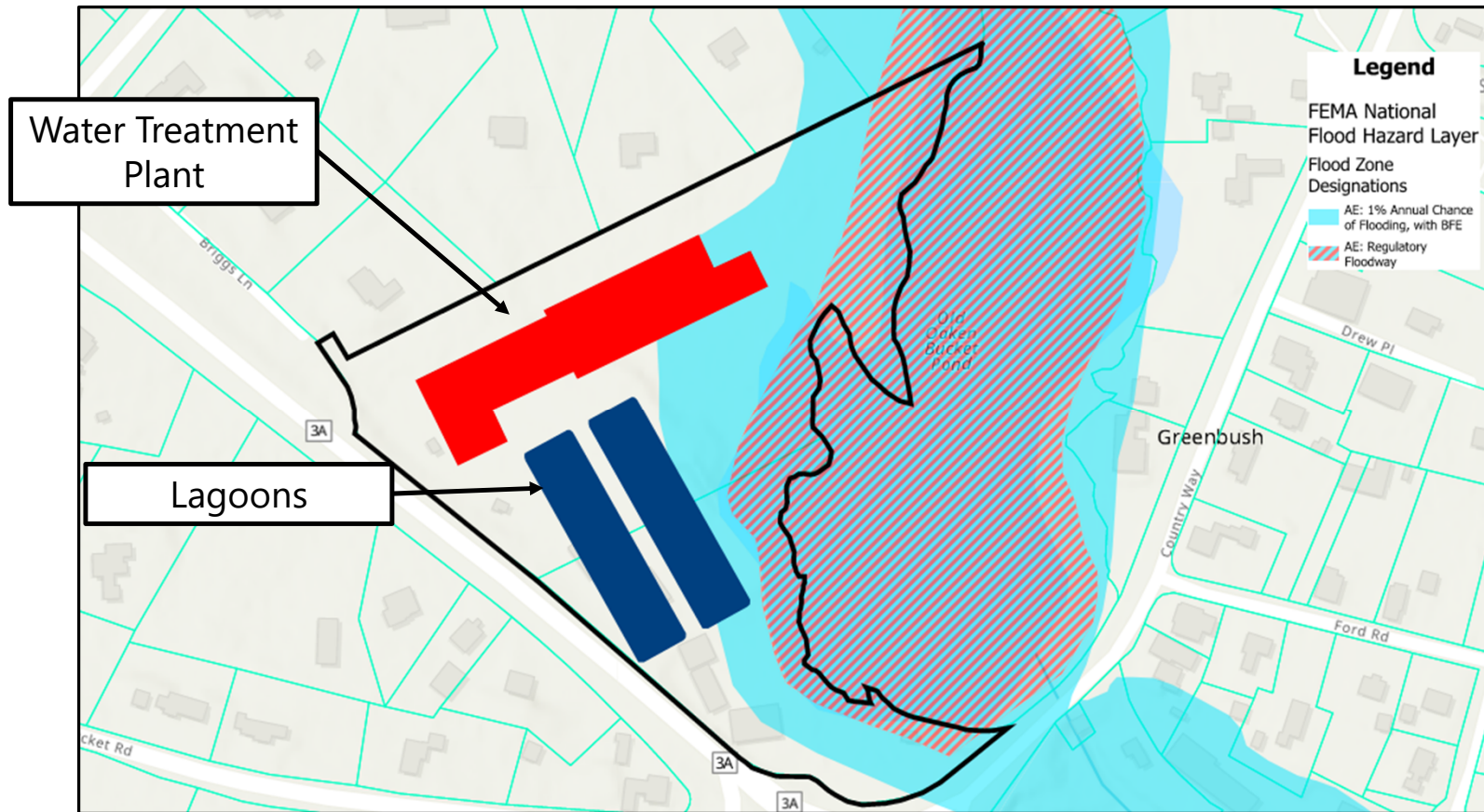




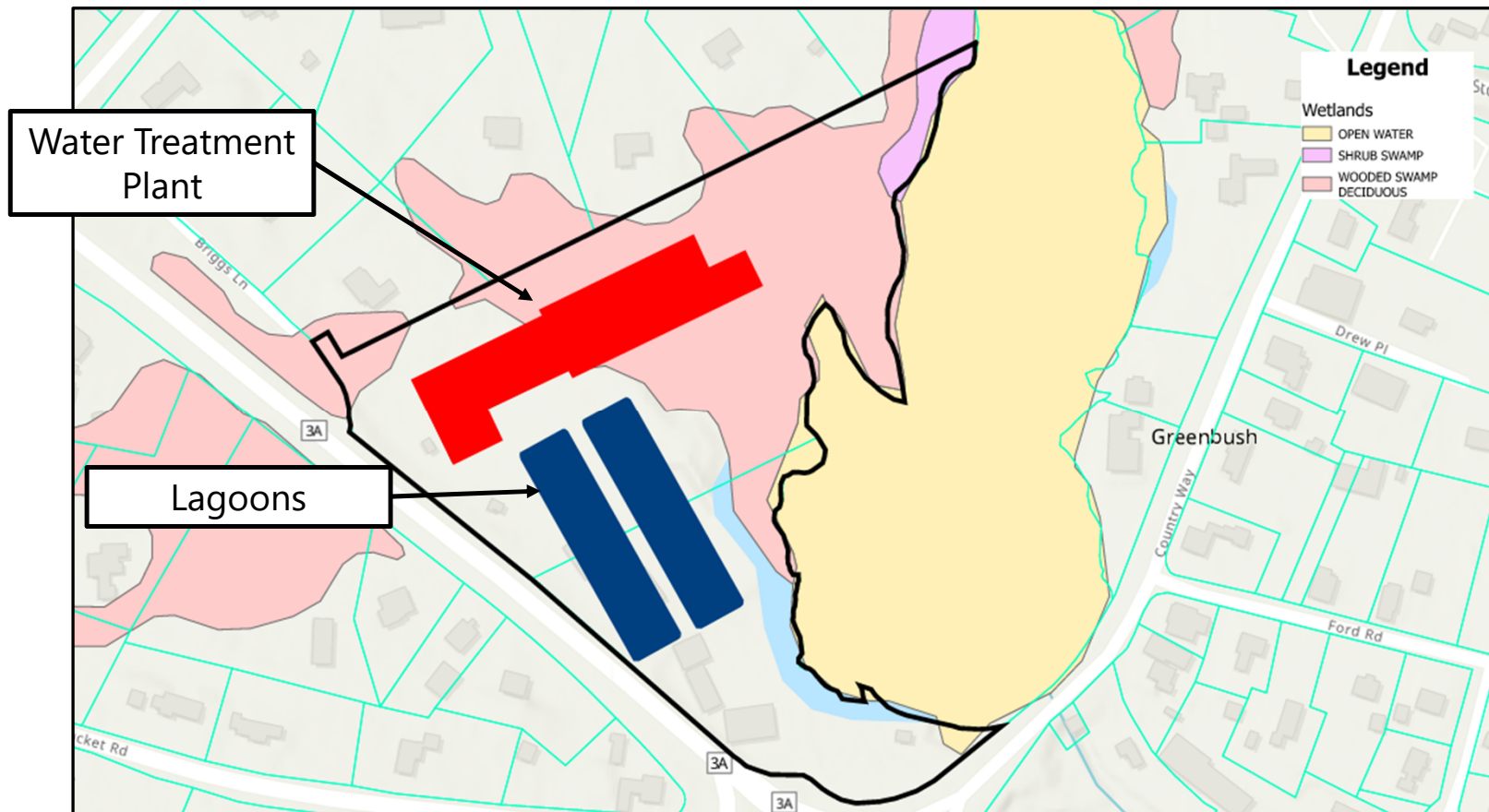
New Facility on Existing OOB Site



Existing OOB Site Flood Zones



Existing OOB Site Wetlands





Should Operations be Separated Between Multiple Sites?

Benefits of One Site Operations



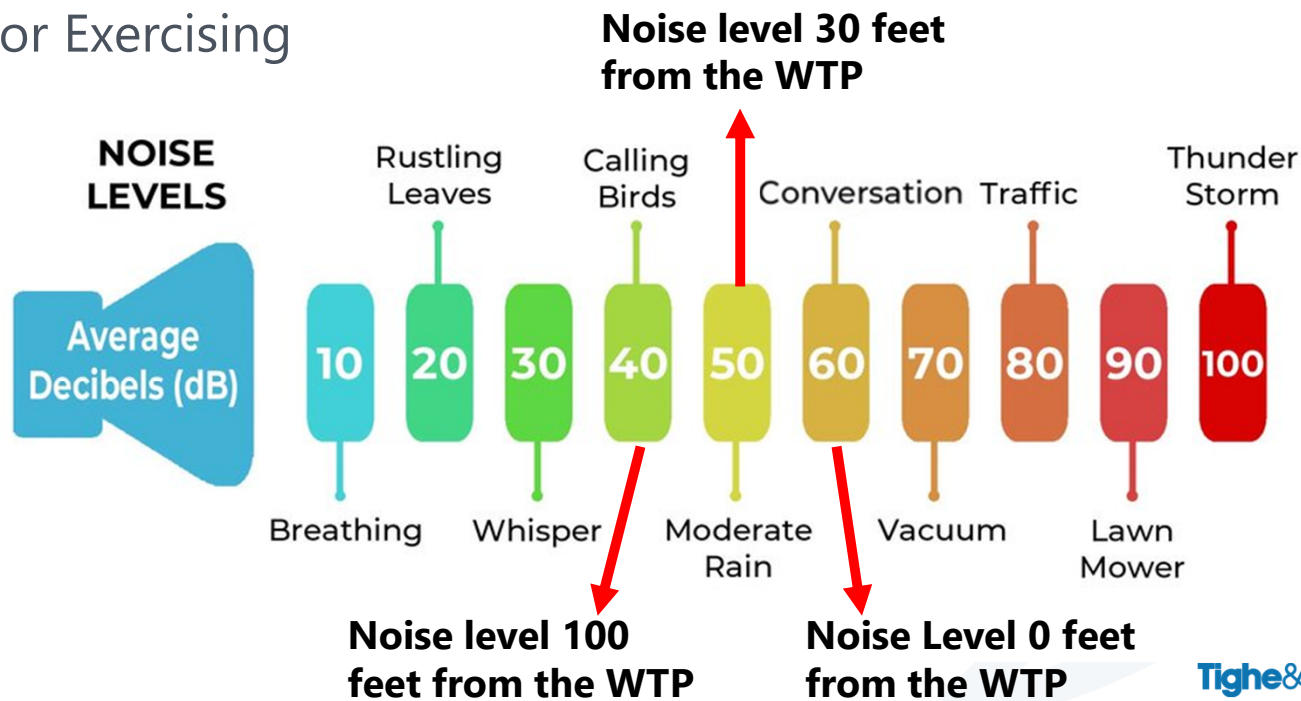


Abutter Impacts



Noise Considerations

- ▶ Operations & Maintenance Activities
- ▶ Routine Vehicular Traffic
- ▶ Periodic Truck Deliveries
- ▶ Generator Exercising



Lighting Considerations

- ▶ Safety and Security
- ▶ Access
- ▶ Tree and Land Buffer Areas
- ▶ Directional Lighting
- ▶ Hours of Operation

Note: Lighting plans will be reviewed and approved by the Town of Scituate's Planning Board during the design phase.



Privacy Considerations

- ▶ Maintain Tree Buffer
- ▶ Additional Plantings
- ▶ Privacy Fencing
- ▶ Hours of Operation



Other Considerations



- ▶ Residuals Handling (Lagoon) Area
- ▶ No Additional Land Use Restrictions
- ▶ Traffic Safety
- ▶ Stormwater Management

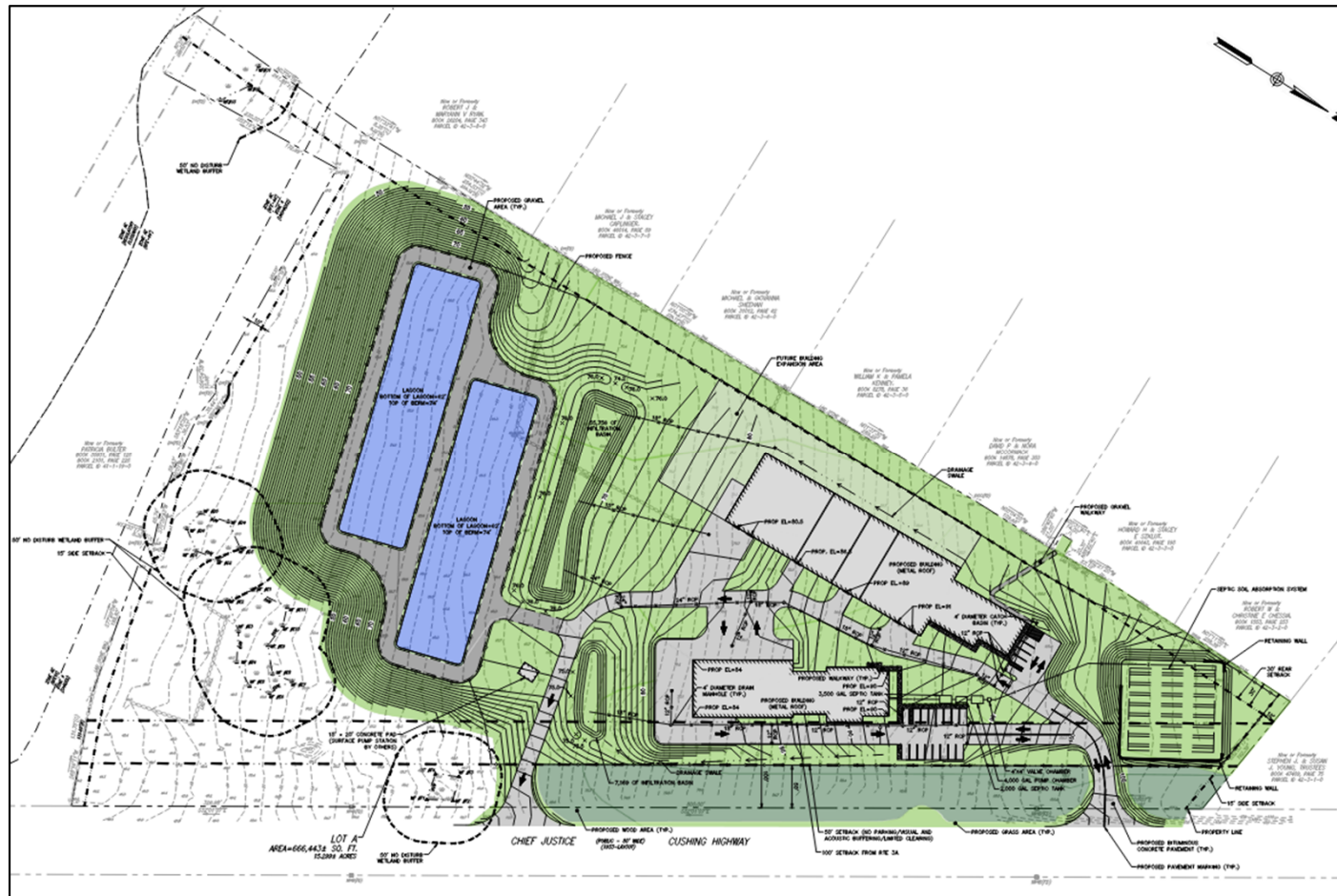


Lagoons at the University of New Hampshire



Site Layout Progression

Original Conceptual Layout







Open Comment

Open Comment



- ▶ Use the raise hand feature and we will call on you in order
- ▶ Please give your name and address
- ▶ Limit to 3 minutes to allow everyone to speak
- ▶ If you agree, you can use +1 to indicate that
- ▶ If you didn't get to say something, or want to provide us something additional, please email scituatewtp@scituatema.gov

Thank you!

 Woodard
& Curran

Tighe&Bond

