



MWRA Update

Frederick A. Laskey Executive Director

May 31, 2018



A Promise Kept

Cost Criteria Weight is on a Downward Trend





- MWRA continues to put less emphasis on cost criteria in design procurements. Over the last few years:
 - In FY16, **50%** were not awarded to the lowest cost proposer
 - In FY17, 60% were not awarded to the lowest bidder
 - In FY18, 75% were not awarded to the lowest bidder



Upcoming Capital Projects



Estimated cost: \$830,000 RFP Date: May 2018





Estimated cost: \$683,000 RFP Date: January 2019





Estimated cost: \$1.6 million RFP Date: April 2019





Estimated cost:\$11 millionRFP Date:November 2019



Ward Street

Columbus Park



Estimated cost: \$200,000 RFP Date: April 2020



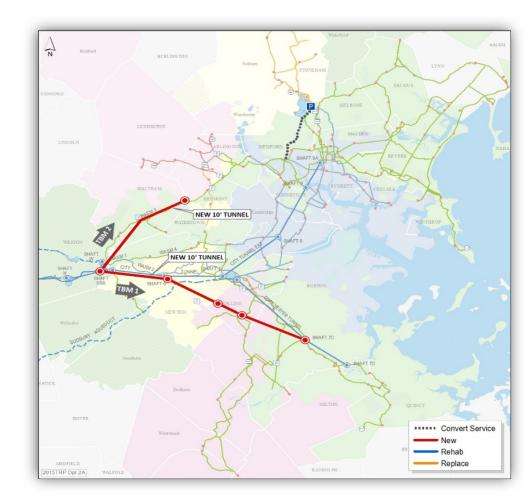


Estimated cost:\$2.8 millionRFP Date:December 2020



To provide redundancy for Metropolitan Tunnels which deliver water to 60% of the system

- \$1.54 billion
- Project duration 2018 2039





Chestnut Hill Emergency Pump Station	July 2018	\$6.7 million
Tunnel Conceptual Design/ EIR	October 2018	\$9 million
Shafts 5 and 9 Building Improvements	January 2019	\$683,000
Section 101, Waltham Section Design	April 2019	\$3 million



Preparing for Climate Change



- Three Nor'easters this winter
- Flooding and storm surge caused damage all along the harbor and the islands



DCR: Nantasket Beach



Nantasket Avenue in front of DCR complex; damage to Hull Shore Drive

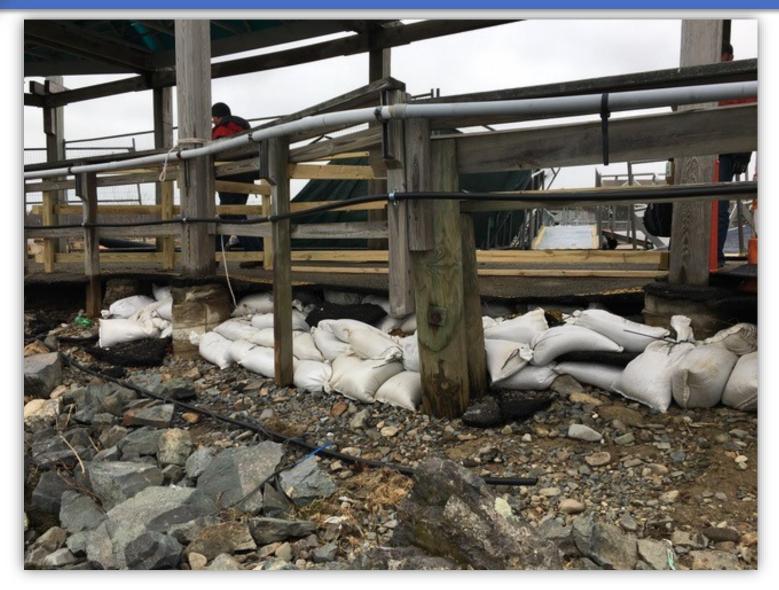


DCR: Spectacle Island



Damage to yurt

DCR: Hingham Commuter Boat Pier



Undermined revetment and walkway



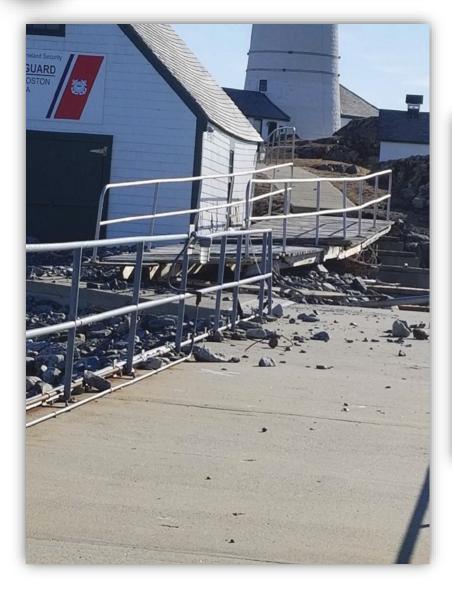
US Coast Guard: Little Brewster and Boston Light







US Coast Guard: Little Brewster and Boston Light







Thompson Island



Once again, the climate-resilient design of the Waterfront Landing paid off. With the main decking placed above the 100 year storm sea level, the storm surge went under, not through, the building. This time without the ice of the Jan. 4 storm.



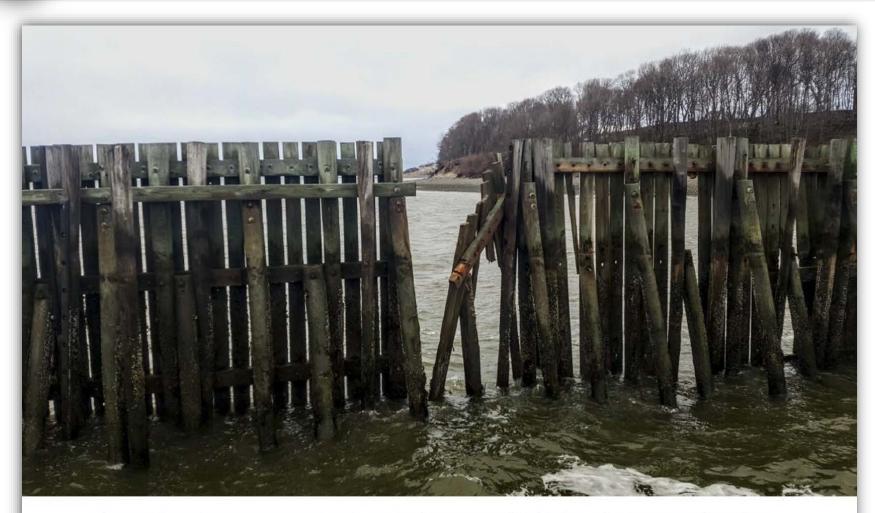
Thompson Island



This area was all cleaned up after the Jan. 4 storm. Time to clean it up all over again.



Thompson Island



The greatest damage we sustained was to the wave wall. This breach appears to have been created by the sheer force of wind and waves out of the east and northeast.





Looking east, showing massive overwash fan of cobble pushed by storm energy over the top of the salt marsh





Looking southwest, showing continued damage to historic seawall and erosion of bluff that protects cemetery





Looking east (left image) and looking west (right image), showing overwash fan of shells, cobble, and vegetative debris pushed by storm energy over the coastal trail next to the pier



Georges Island and Lovells Island



Looking south, showing continued damage to historic seawall and outer earthworks of Fort Warren



Looking east, showing perched doorway and tunnel entrance associated with Fort Standish coastal defense installation





March 2nd high tide





Charlestown Navy Yard







Charlestown Navy Yard



Dry Dock received 15 feet of water from overflow of caisson, overtopping and pump drains



Charlestown Navy Yard



Pier One was flooded from overtopping of seawall







State Street, Boston



AP/CityLab



MWRA: Deer Island



The seawall protects the island from storm surges



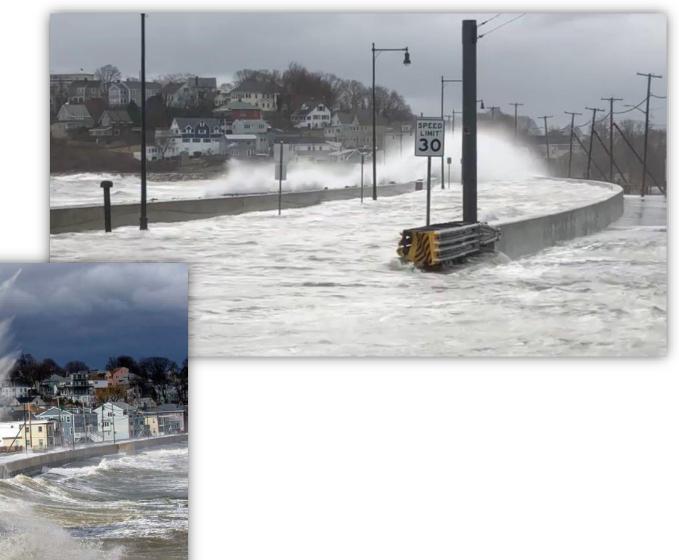
MWRA: Deer Island



Fallen tree in front of historic pump station; granite blocks along public access were moved by waves









Shirley Street, Winthrop





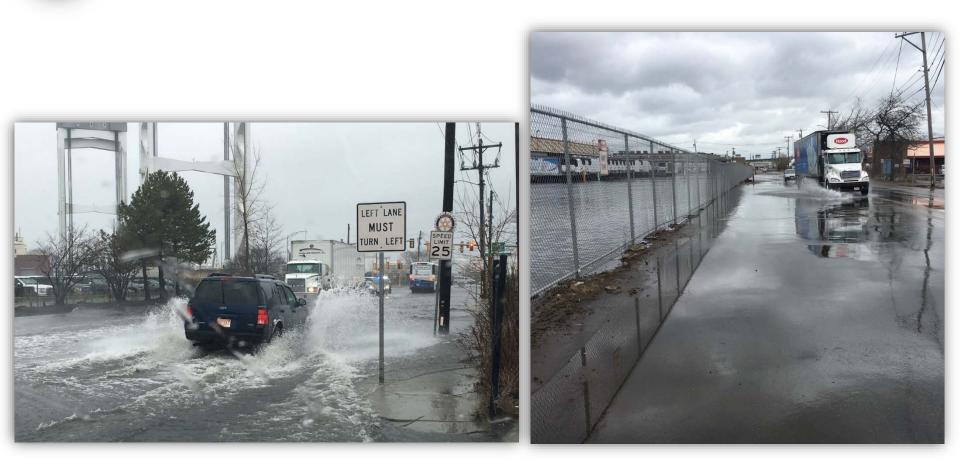


MWRA: Nut Island



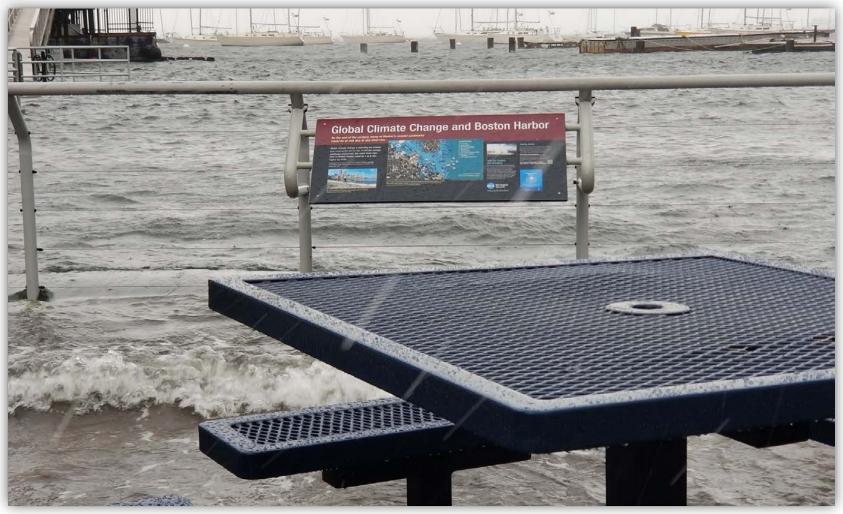
Access to Nut Island was cut off by roadway flooding







Summing It All Up...



Secretary Matt Beaton