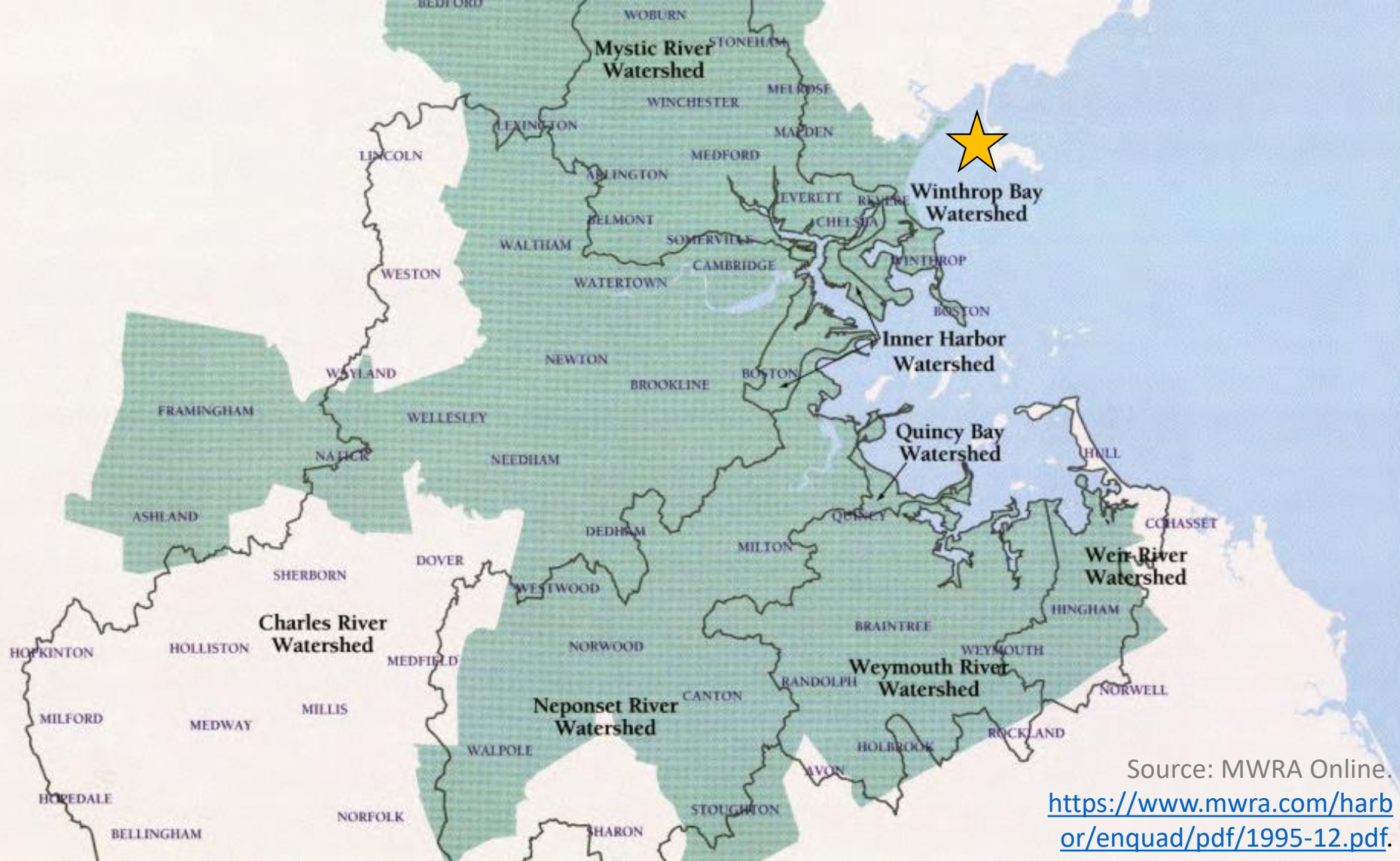


An aerial photograph showing a narrow, winding creek that meanders through a vast, flat landscape of low-lying vegetation. The vegetation has a mix of brown, tan, and muted green hues, suggesting a wetland or marsh environment. The creek is a light, silty color, contrasting with the darker ground. The overall scene is desolate and expansive.

# Belle Isle Creek/ Winthrop Bay Watershed Area

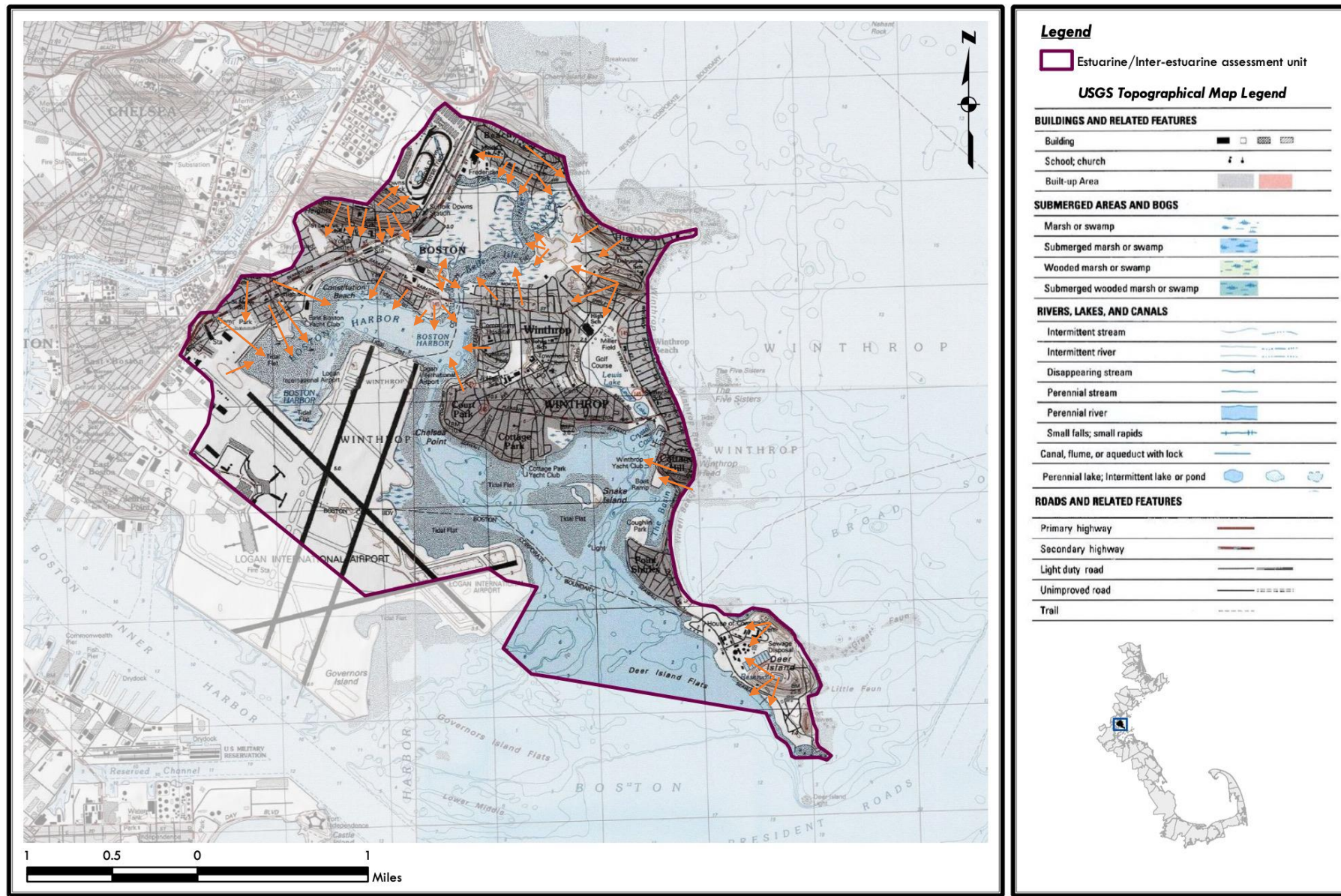
Grace Wu





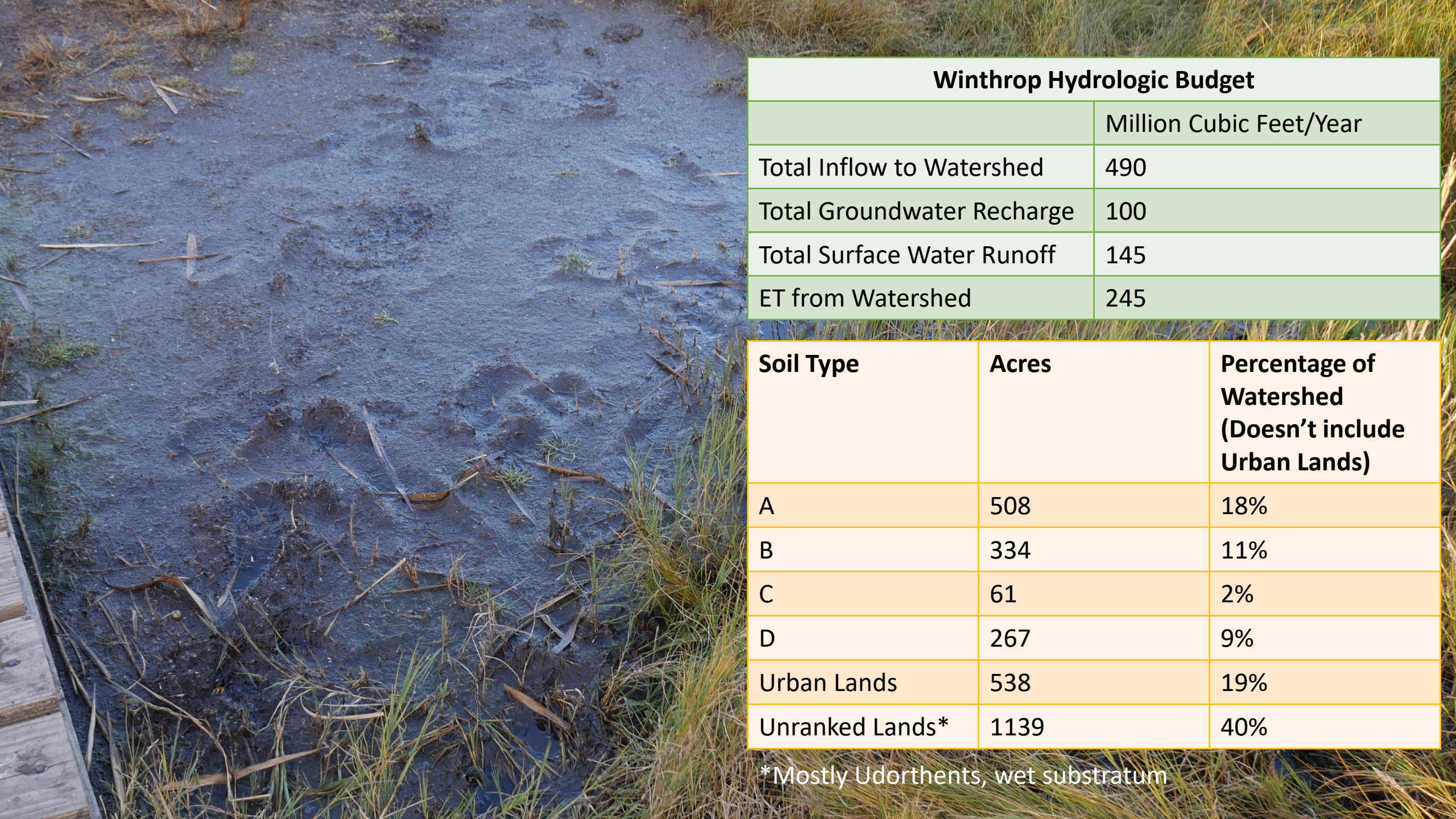
Source: MWRA Online.  
<https://www.mwra.com/harb/or/enquad/pdf/1995-12.pdf>.





Belle Isle Creek/ Winthrop Bay Watershed Assessment Area Boundary. (2017).  
Source: [Mass.gov Ecosystem Delineation and Assessment](https://www.mass.gov/info-details/mass-gis-ecosystem-delineation-and-assessment).





Winthrop Hydrologic Budget	
	Million Cubic Feet/Year
Total Inflow to Watershed	490
Total Groundwater Recharge	100
Total Surface Water Runoff	145
ET from Watershed	245

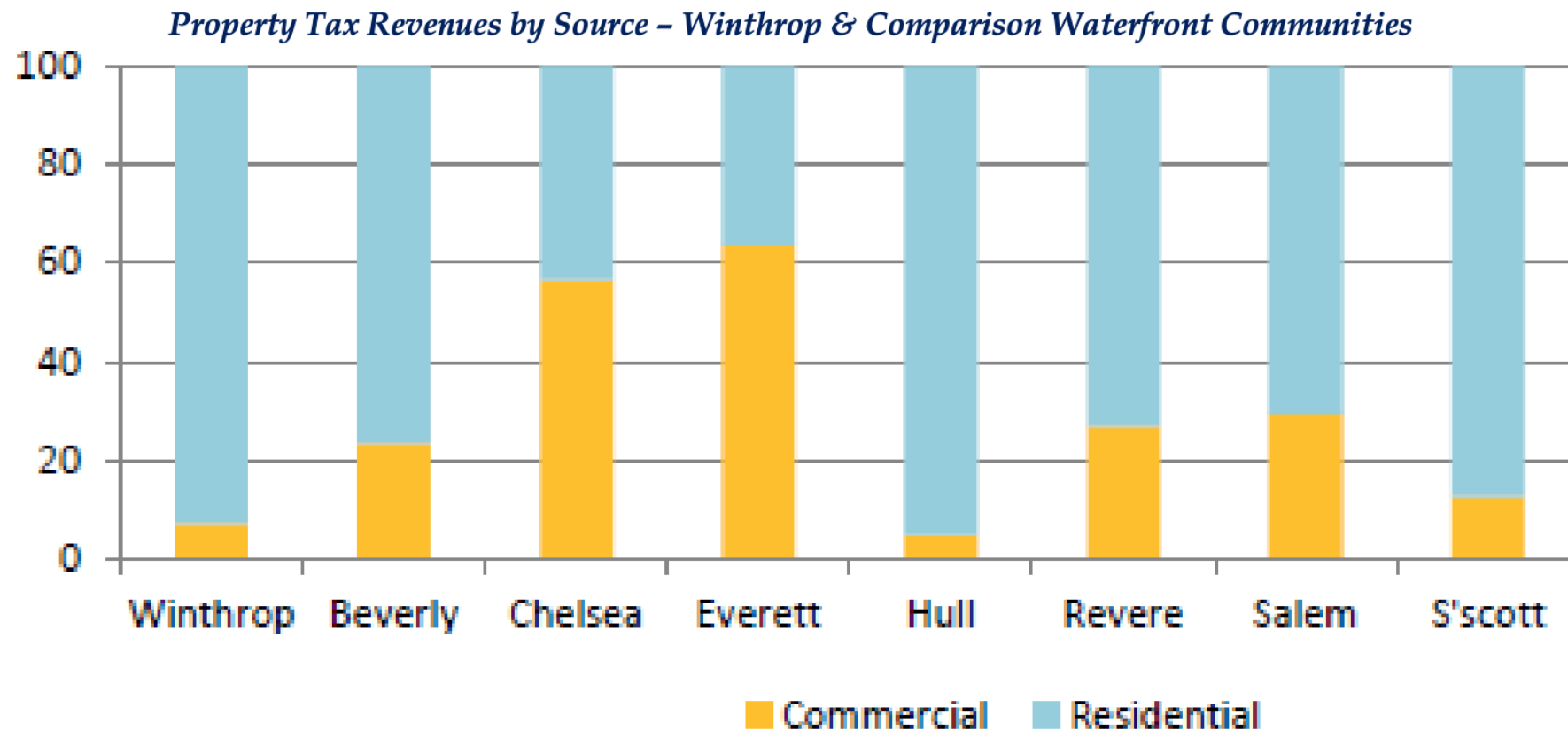
Soil Type	Acres	Percentage of Watershed (Doesn't include Urban Lands)
A	508	18%
B	334	11%
C	61	2%
D	267	9%
Urban Lands	538	19%
Unranked Lands*	1139	40%

\*Mostly Udorthents, wet substratum





Street & Zoning Plan. (2006).  
Source: [The Town of Winthrop Massachusetts](#).

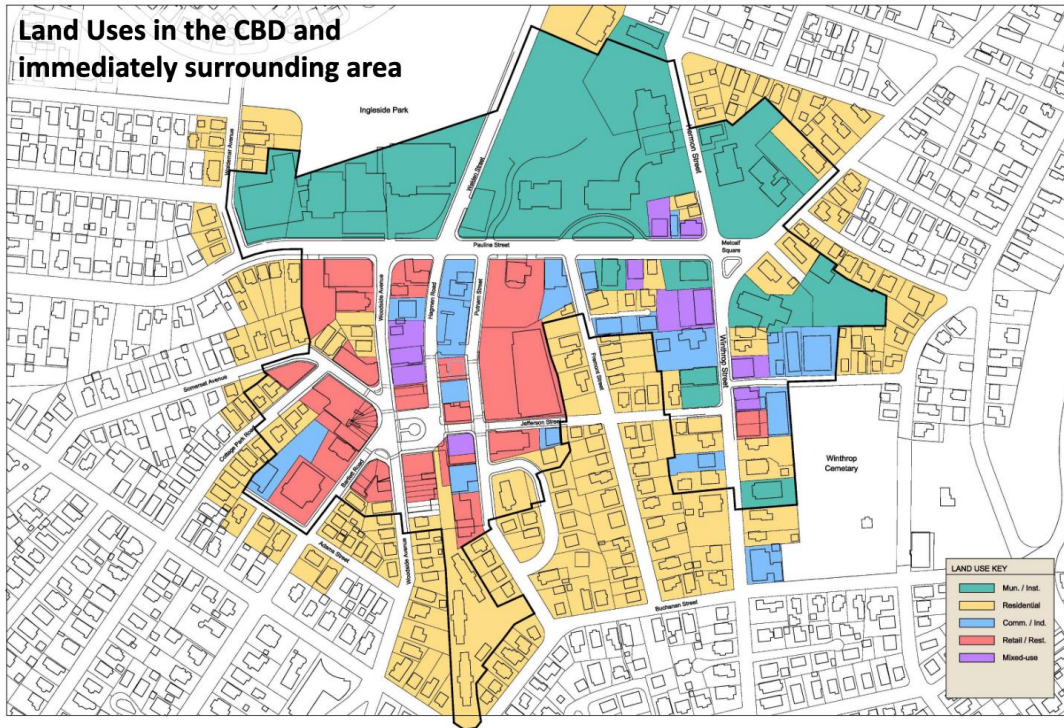


Source: Massachusetts Department of Revenue, FY2013 – Excerpt from UMass Boston Collins Center Economic Study

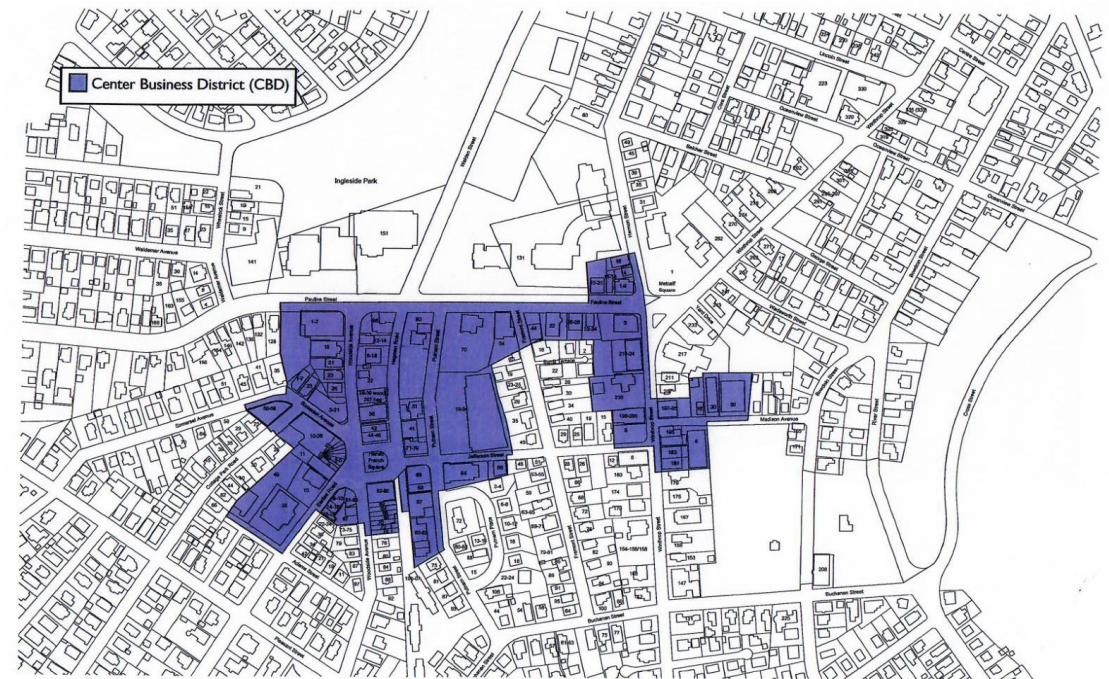
Retrieved from:

[https://www.town.winthrop.ma.us/sites/g/files/vyhlif4061/f/uploads/win2030\\_vision\\_draft\\_plan\\_report\\_jan2021.pdf](https://www.town.winthrop.ma.us/sites/g/files/vyhlif4061/f/uploads/win2030_vision_draft_plan_report_jan2021.pdf)





Winthrop Center Business Zoning Map Analysis (April 2019). Retrieved from:  
[https://www.town.winthrop.ma.us/sites/g/files/vyhlf4061/f/uploads/cbd.final\\_.zoning\\_map.19\\_3.pdf](https://www.town.winthrop.ma.us/sites/g/files/vyhlf4061/f/uploads/cbd.final_.zoning_map.19_3.pdf)

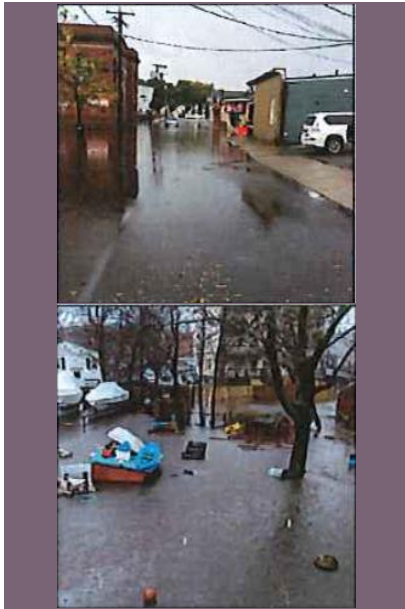


**TOWN OF WINTHROP**  
 November 19, 2019

**CENTER BUSINESS MAP / 2019**

Town of Winthrop Center Business Map (November 2019). Retrieved from:  
[https://www.town.winthrop.ma.us/sites/g/files/vyhlf4061/f/uploads/cbd.final\\_.zoning\\_map.19\\_3.pdf](https://www.town.winthrop.ma.us/sites/g/files/vyhlf4061/f/uploads/cbd.final_.zoning_map.19_3.pdf)





Town of Winthrop.  
(2017, March). Centre  
Business District Master  
Plan. Retrieved from  
<https://www.massdevelopment.com/assets/what-we-offer/technical-assistance/centrebusiness-winthrop-032017.pdf>



Figure 13. Winthrop Flood Zones



# Recommendations

## Limitations for Implementation:

1. Lack of financial resources, even for infrastructure repairs
2. Winthrop is geographically isolated and lacks political and municipal accountability

## 1 Public Education & Outreach

### Other Recommendations:

1. Emergency evacuation plan
2. Improve public understanding of how to help with emergency preparedness (more workshops)
3. Increase community engagement and local political will

## 2 Low Impact Development

### Winthrop Visioning 2030 – Polling Results

Scheme 3: Classroom and Auditorium Redevelopment 50%

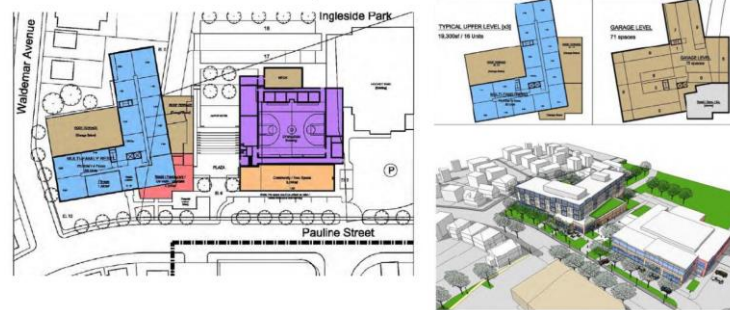


Image Source: Center Business District Plan, 2017

Middle School Rezoning



## 3 Shoreline Protection



## 4 Belle Isle Marsh Preservation – Encourage Transfer of development rights/ Conservation Easement







Thank You

This architectural rendering depicts a vibrant waterfront park. A prominent wooden boardwalk, composed of parallel planks, winds through the scene, connecting a grassy foreground to a series of small, grassy islands in the water. People are shown walking along the boardwalk and sitting on a set of wide stone steps in the lower right. The water is a deep blue, with several kayakers and a small boat visible. In the background, a dense urban skyline with various skyscrapers and buildings is visible across the water. The overall atmosphere is bright and sunny, suggesting a pleasant day at the park.