**MWRA Wastewater Advisory Committee** 

### Municipal Stormwater Planning, Innovations, Outreach and I/I Removal

Charlie Jewell Director of Planning and Sustainability Boston Water and Sewer Commission

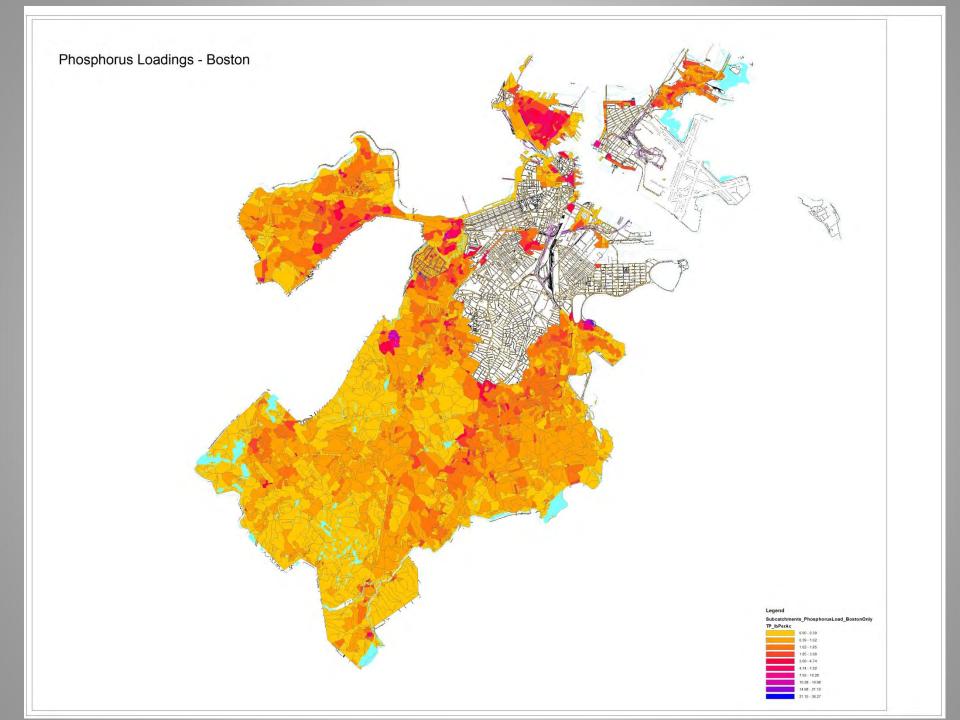
February 6, 2015

### **Consent Decree**

- 2012
- Stormwater
- Illicit Discharges
  - Commission Policy on Correction
  - Leaking Laterals

### **Charles River**

- TMDL Phosphorus
- Update Stormwater Model
  Pollutant Loadings
- Phosphorus in base flow
- Develop BMP/GI/LID Implementation Plan
- Site Plan Review



### **Demonstration Projects**

- Central Square
- Audubon Circle
- City Hall Plaza
- Monitoring

#### BOSTON WATER AND SEWER COMMISSION WASTEWATER AND STORM DRAINAGE FACILITIES PLAN UPDATE PROJECT TASK E – FINAL GREEN INFRASTRUCTURE DESIGN FOR CENTRAL SQUARE

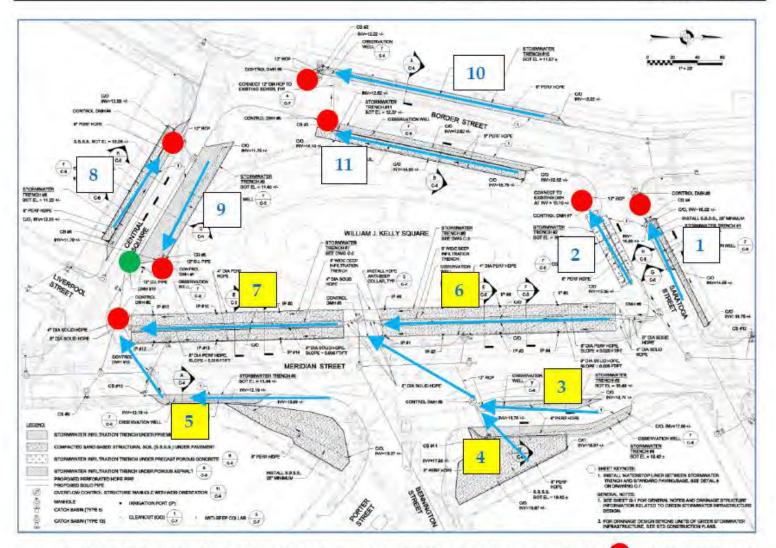


Figure 2 – Flow Schematic for Final Green Stormwater Infrastructure Design (red dots represent ultimate overflow points to storm drains; the green dot represents the anticipated flow meter location; numbers represent the stormwater trench systems; yellow numbers represent the five trenches that are hydraulically connected)

### **Proposed Green Stormwater Infrastructure Plan for Central Square**

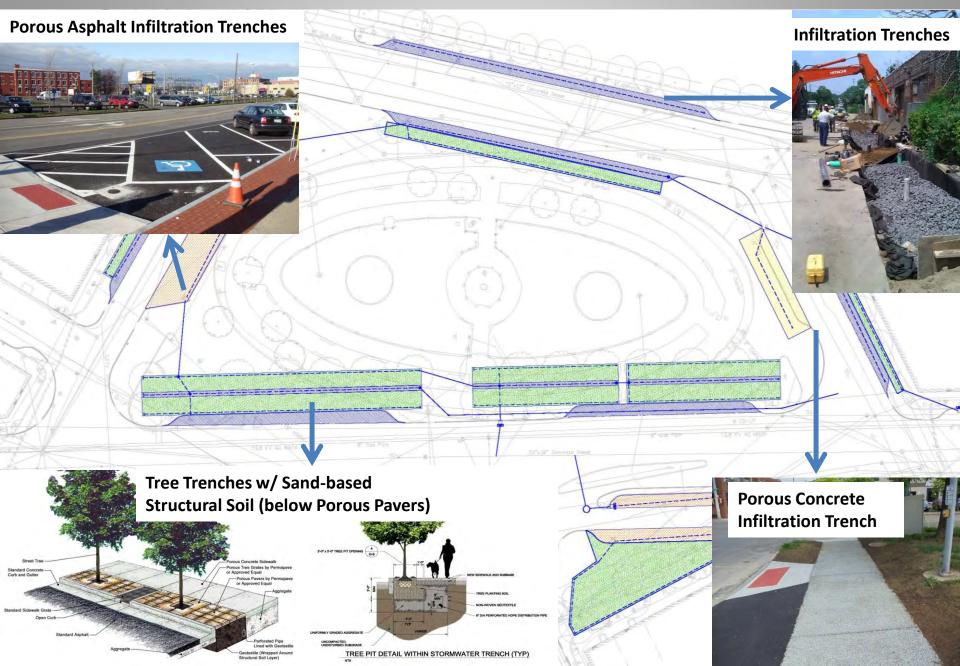
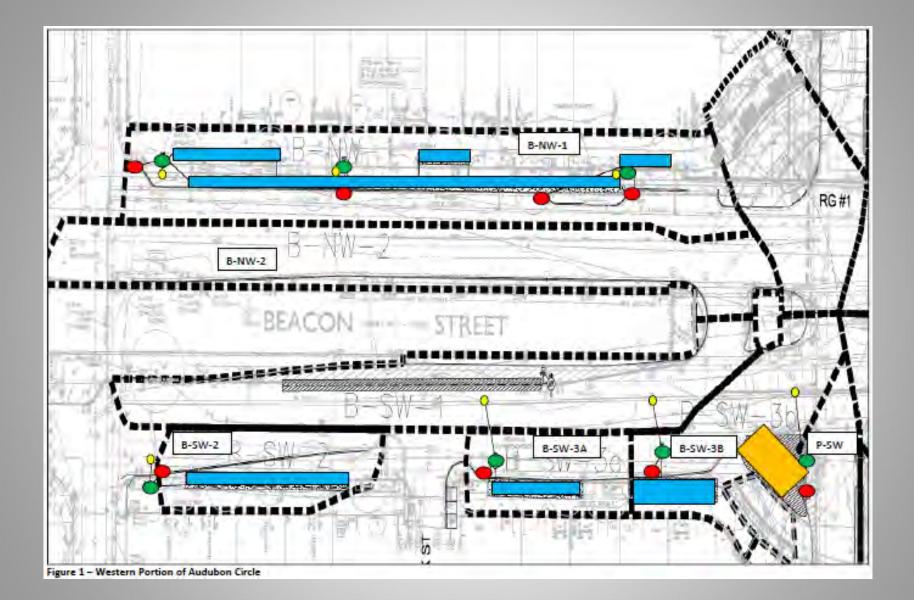




Figure 6. Audubon Circle Project Location at Intersection of Beacon Street and Park Drive



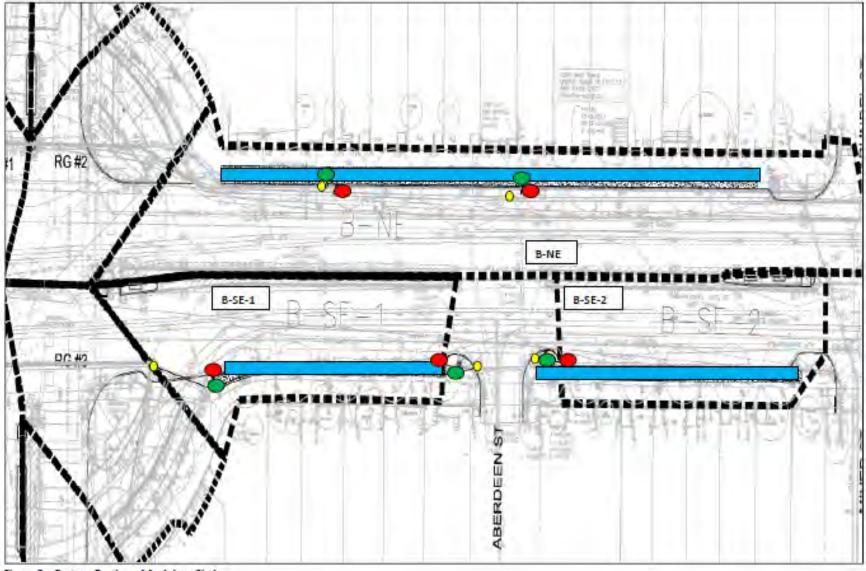


Figure 2 - Eastern Portion of Audubon Circle

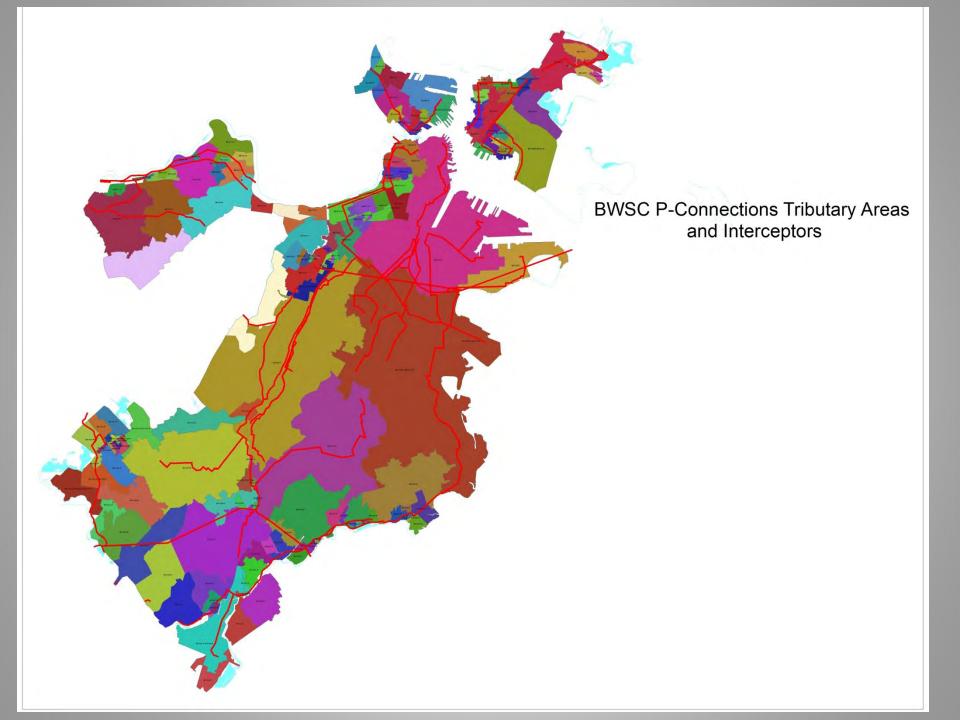
# **BMPs in City**

ВМР	#	BMP	#
Bio Filter Strips	1	Leaching Basins	327
Bio Swales	10	Multiple	9
Cultec Chambers	588	Perforated Pipe	389
Detention Ponds	23	Rain Garden	10
Dry wells	1,162	Stormtech Chambers	41
Injection wells	3	Tank Injection Wells	3
		Total	2,566

Began tracking in 1999

# I/I Master Plan

- DEP Regulations
- Past Studies
- New Plan
  - Summarizes what has been done
  - Create new baseline
  - Plan for going forward



### **Questions?**