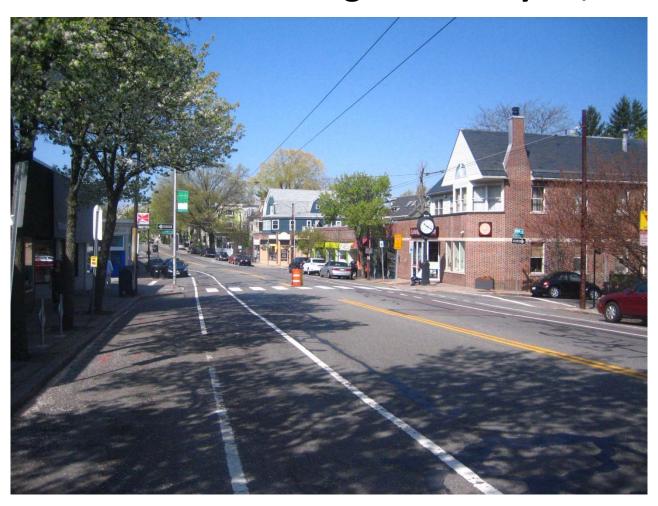
Huron B Neighborhood

Phase 2: Alewife Sewer Separation Project Inflow Removal Meeting – February 27, 2013





Huron B Neighborhood

Inflow Removal Meeting

Welcome and Introduction

Kara Falise

Project Description

Owen O'Riordan

- Project Goals and Benefits
- What is Inflow
- Why Remove Inflow

Private Property Inflow Removal

Kara Falise

- Why Your Property
- What to Expect
- Timeline

Property Owner Consultations

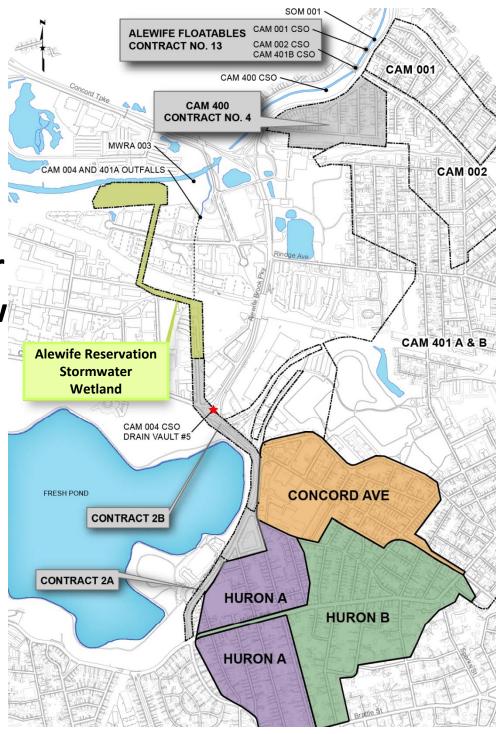
City Staff and Consultants



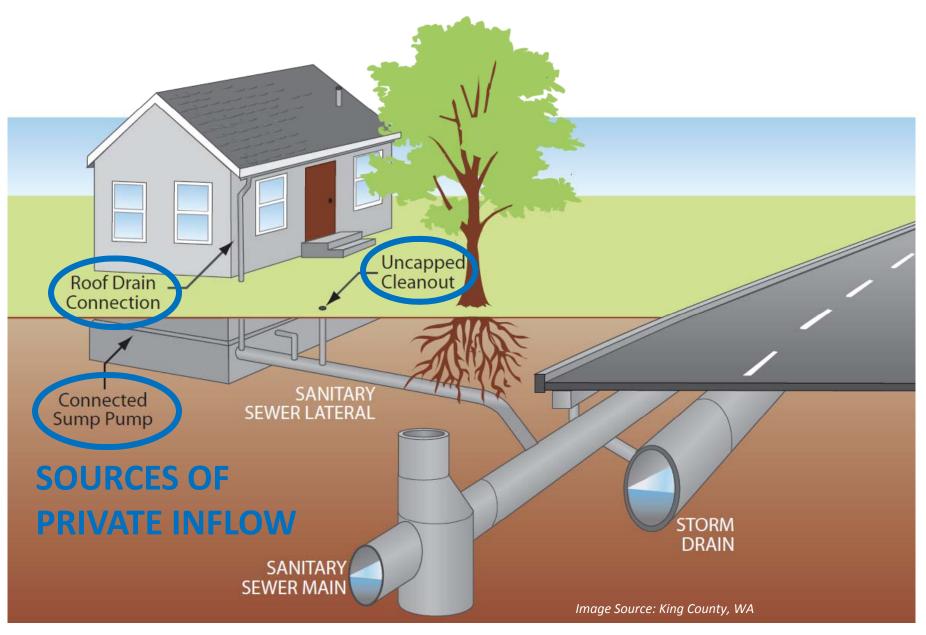
Goals

- Court-ordered clean up of Boston Harbor requires implementation of the Long Term Control Plan for Combined Sewer Overflow (CSO) for Alewife Brook
- MWRA's Plan for Alewife Brook
 - 50 Mg \rightarrow 7.3 Mg
 - 63 activations

 7 activations per year



What Is Inflow?



Why Remove Inflow?

- Reduces probability of sewer backups
- Inflow causes increased pollution to Alewife Brook
- Reduced cost of sewage treatment for entire community

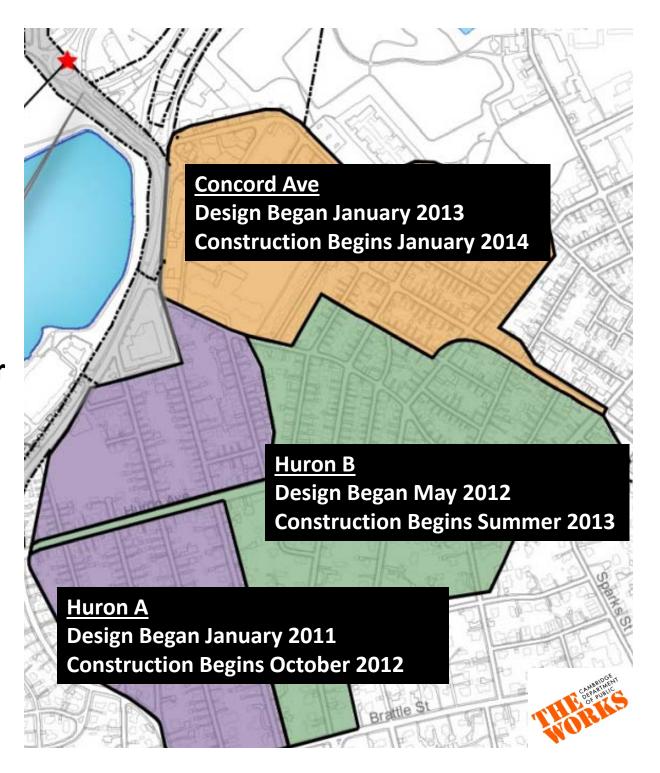




Huron/Concord Project Areas

-Sewer improvements on all 3 contracts to be complete by December 2015

-Surface restoration complete by 2016

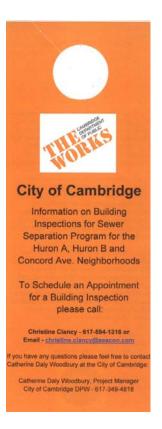


Private Property Inflow Removal: Why Your Property?

- <u>Collected data</u> through Field Investigations and Building Inspections
- Performed <u>hydraulic analysis</u> to determine how much inflow must be removed
- Performed a <u>feasibility</u>
 <u>analysis</u> to determine which sources should be targeted
 - Developed Conceptual Plan
 - Determined Estimated Cost







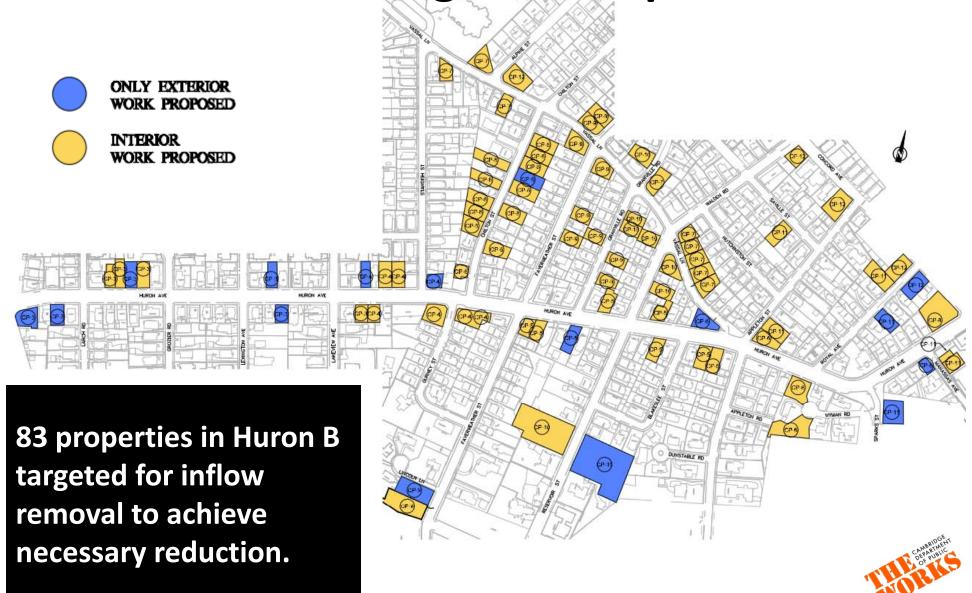
Building Inspections

	1 0:10 0 1:	*****		وبعيدي			Α.	~~~~			,			
PUMP USED:	STORM	QUAN	TITY	2	HP	13	PIPE	SIZE	1.5	GPM	UNK	VOL.	S	MI
	SANITARY	QUAN'	TITY		HP		PIPE	SIZE		GPM		VOL	rs	
IS PUMP HARD PIPED TO (YES			NO		(SUMP FREQUENCY)									
DISCHARGE?				DAILY - WEEKLY - MONTHLY - SEASONAL										
DISTANCE FROM TOP OF FOUNDATI			ON TO	SANITARY SERVICE. (CLEAN OUT CAP)							5 (ft)			
DISTANCE FROM TOP OF FOUNDATI				, ,							(ft)			
DISTANCE FROM TOP OF FOUNDATION TO GAS SERVICE:								i	(ft)					
FIELD OBSERVATION			EXIS	TS Y/N	DISCHARGE LOC. IN						NFO.	*		
SANITARY S	SERVICE: DIA	U IN.	TY		SS	CS	SD		men		UNK	R	D	C
GUTTER / DOWNSPOUT:			Y		SS	CS	SD	D/WI	LE	SURE.	UNK	R	D	C
FLAT ROOF DRAIN:			N		SS	CS	SD	D/WE	LL		UNK	R	D	С
STORM/SUMP PUMP:			Y		SS	CS	SD	D/WE	LÈ	SURF.	UNK	R	D	C
SANITARY/GRINDER PUMP:			N		SS	CS	SD				UNK	R	D	C
DRIVEWAY DRAIN:			N		SS	CS	SD	D/WE	LL		UNK	R	D	C
AREA DRAIN:			7		SS	CS	SD	Q/WE	LD		UNK	R	D	C
WATER SERVICE MAT.:DIA IN.			COPPER			STEEL/LEAD				OTHER		UNKNOWN		
*INFORMATION SOURCE: (R)-RECORD INFORMATION, (D)-DYE TEST & (C)-INFORMATION FROM CONTACT														
SANITARY PIPE, WATER, GAS, AREA DRAINS & DOWNSPOUT LOCATIONS:														
PUMP LOCATIONS														
Attached														
	1 AL 6-1-	unter	1 1	i 1	1						1			

	Huron B	Project-wide
Total Buildings	370	954
Buildings with Confirmed Inflow Sources	105	231
Buildings Selected for Inflow Removal	83	173

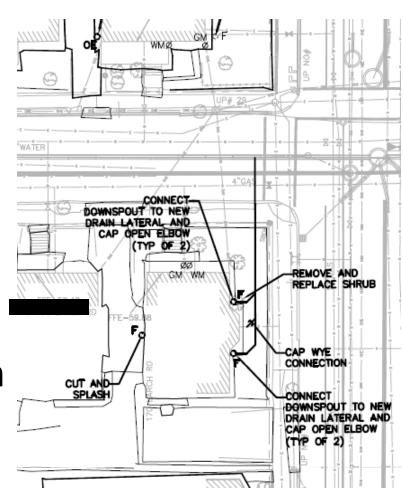
Private Property Inflow Removal:

Huron B Targeted Properties



Inflow Removal Goals:

- Keep Stormwater Local
 - Discharge to Surface
 - Recharge with overflowIf not possible:
- Provide Lateral Connection



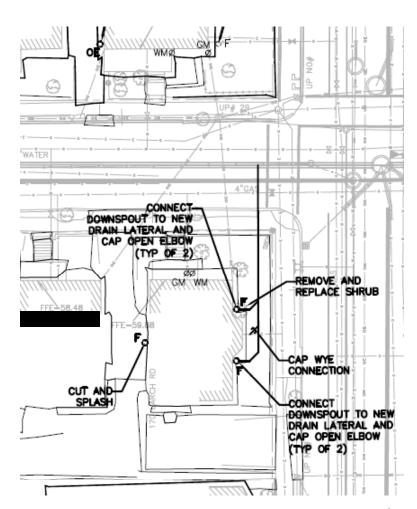


Exterior work:

- Cut downspouts and splash to surface
- Reroute downspouts
- Install new drainage lateral
- Install drywells with overflow

Interior work:

- Plug discontinued roof drains
- Disconnect/reconnect sump pumps and roof drains

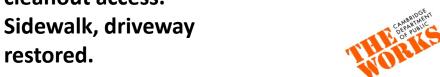






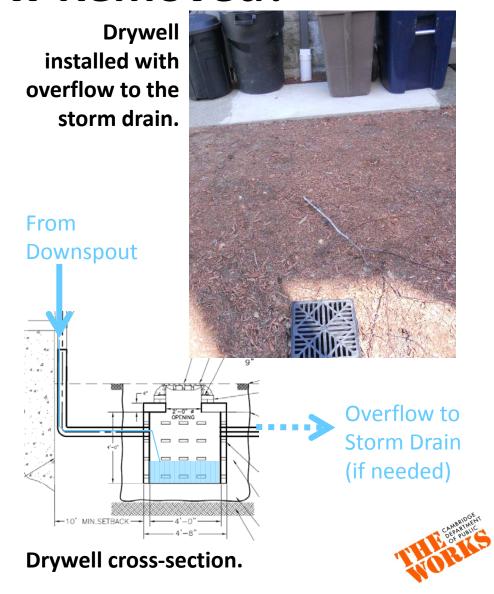
<u>Before</u>: Downspout disappeared into foundation; connected to sewer







Downspouts disconnected. Elbow capped.





<u>Before</u>: Roof Leaders and Sump Discharge Tied into Sewer



After: New dedicated drain lateral for sump discharge and/or roof drains



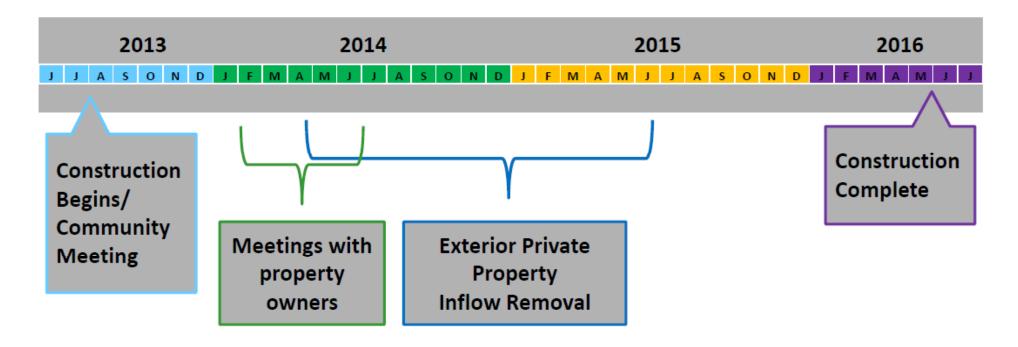
What to Expect: FAQ'S?

- This work happens at no cost to the owner, if they choose to allow it as part of the project
- Property will be restored to equivalent or better condition
- Individual properties typical work schedule:
 - 1-5 Days of Inflow Removal work
 - 1-2 Days of Surface Restoration



Construction Timeline: Huron B

(Anticipated)

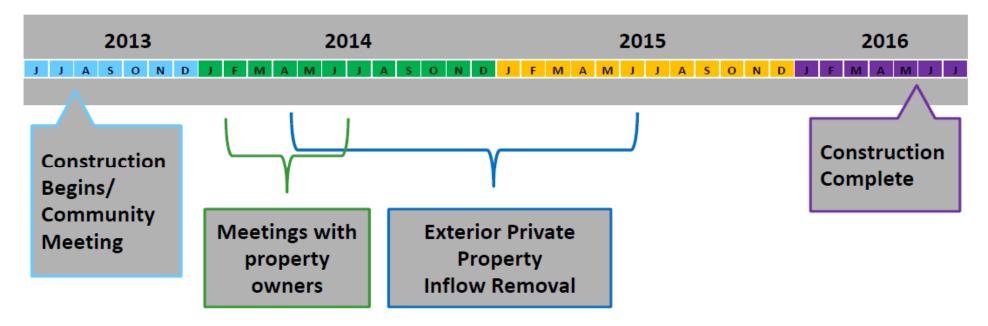


Next General Meetings:

- Final overall project design review open house: Early May
- Construction kick-off with contractor: July

Construction Timeline: Huron B

(Anticipated)



Private Inflow work:

- Private Consultation: 6 weeks prior to work
 - -Finalize conceptual plans
 - -Right of Entry documentation
 - -schedule work

Note: Some Huron B property inflow work will be completed as part of the Huron A Contract; owners will be notified accordingly



Contact Information

- Questions, Comments or Suggestions
 - Kara Falise, Project ManagerKFalise@CambridgeMA.gov
 - KyAnn Anderson, Community Relations Manager
 KAnderson@Kleinfelder.com
- 24-Hour Emergency Assistance
 - Cambridge DPW at 617-349-4800
- Information on City Web Site
 - www.cambridgema.gov/theworks/HuronB



General Questions

Private Consultations

Property Specific Questions

Reminders:

- •Plans are conceptual until the contractor and/or plumber visits your property
- Please coordinate with all other owners of shared properties (condo's etc.)
- Properties not in attendance tonight will have plans mailed to them



