



Save the Rain Walton Street - CSO 029 Reduction & Conveyance Modifications Project

Community Meeting September 29, 2021





Agenda

1 Introductions

5 Road and sidewalk closures

2 Save the Rain Program Overview

3 CSO 029 Project Overview

4 Construction Overview

6 Parking Impacts

7 Open Discussion

8 Closing





Introductions



Adam Woodburn, RLA Program Coordinator, Stormwater Management Onondaga Department of Water Environment Protection



Jed Walsh Project Coordinator, Save the Rain Program Onondaga Department of Water Environment Protection



Benjamin Tillotson, PE Project Manager

Arcadis



Benjamin Taylor, EIT Project Engineer Arcadis





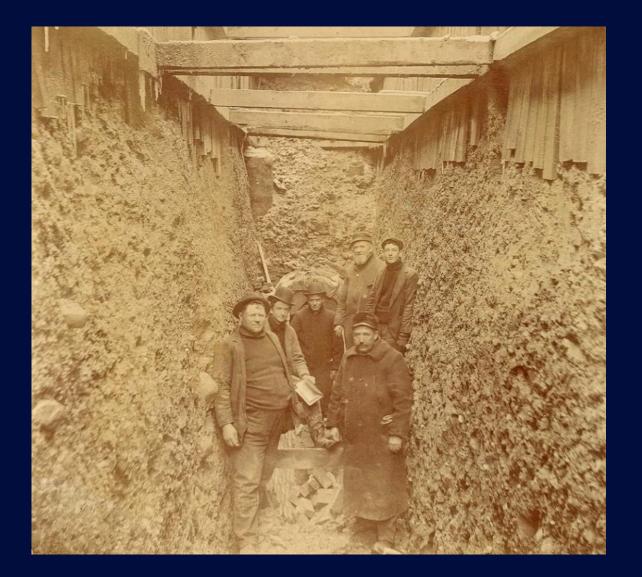


Program Overview



J. Ryan McMahon, II County Executive IT.





Combined Sewer System

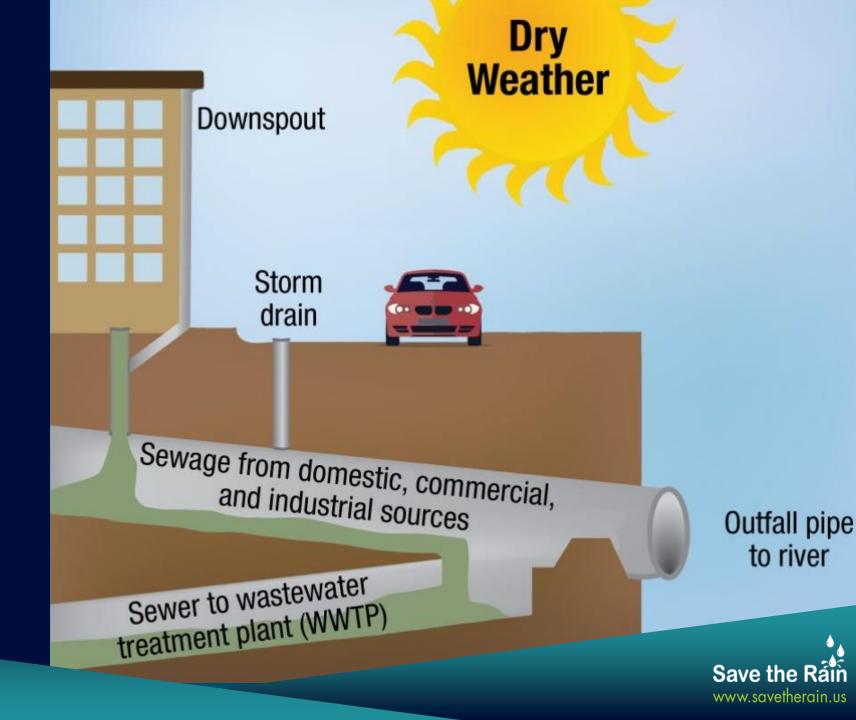
• Infrastructure dates back to 1800s





Combined Sewer Overflows

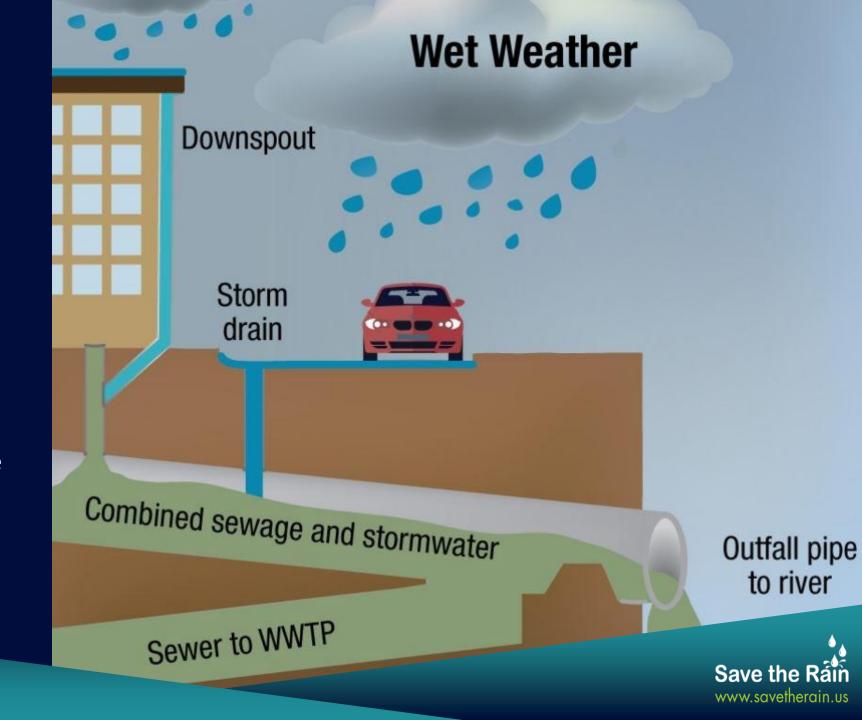
 CSOs occur when stormwater enters the combined sewer system causing system overload.
 During these overloads, the system releases this excess flow into waterbodies.





Combined Sewer Overflows

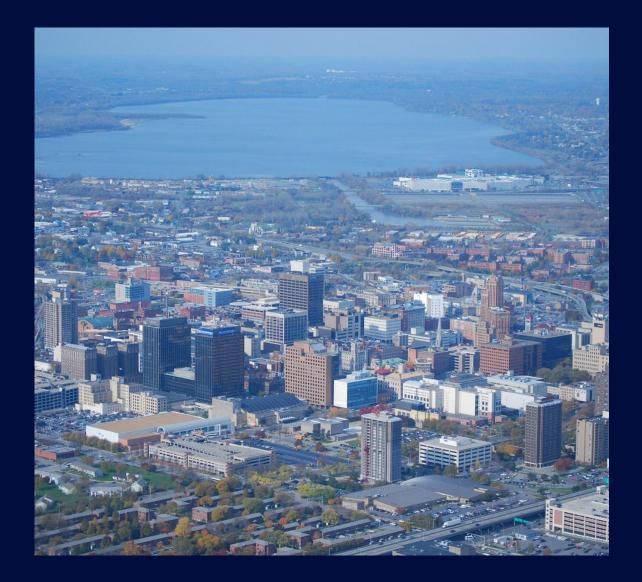
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J. Ryan McMahon, II

County Executive



Combined Sewer System

• CSOs Impact Onondaga Lake and Tributaries





GREEN

Save the Rain

GRAY





Gray Infrastructure

 Consists of modification of sewer and water treatment infrastructure (i.e. sewer reconfiguration, sewer separation, and storage facilities) to divert water away from CSO-prone areas.





Gray Infrastructure Accomplishments

\$469 MILLION SPENT ON GRAY

312 MILLION GAL CAPTURED BY GRAY









Gray Infrastructure Processes

STEP 1: Preliminary Treatment

- Screening & Grit Removal
- Low-lift Pump

STEP 2: Primary & Secondary Treatment

- Primary Clarification
- Aeration
- Secondary Clarification

STEP 3: Advanced Treatment

- Biological Aerated Filtration
- High-Rate Flocculated Settling
- Ultraviolet Disinfection

Solids Treatment & Disposal

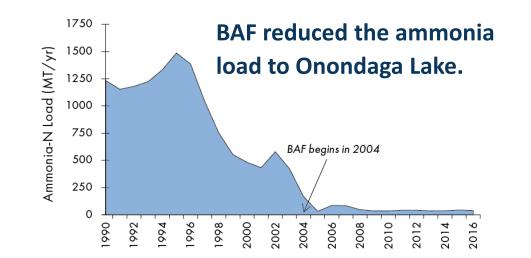
- Thickening
- Anaerobic Digestion
- Energy Recovery



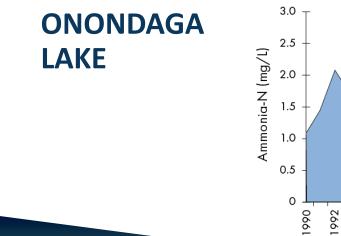


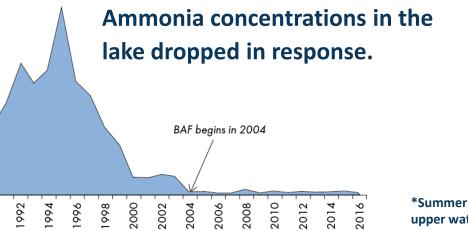






AMMONIA





*Summer avg., upper waters



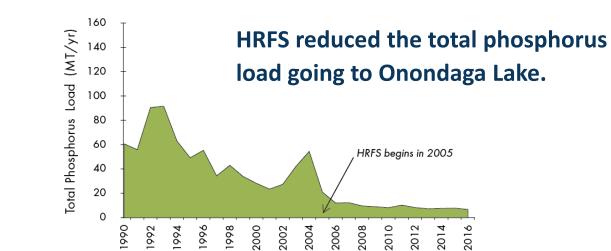


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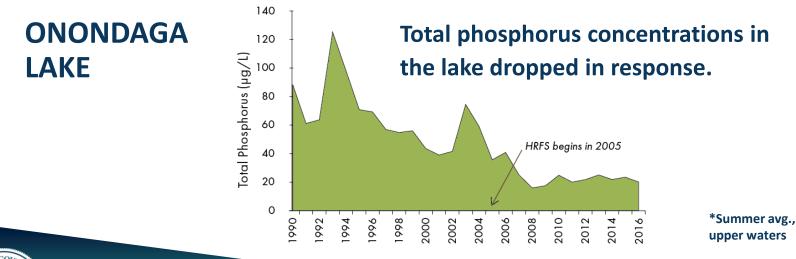








TOTAL PHOSPHORUS





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Green Infrastructure

 Consists of bioretention areas, porous pavers/pavement, rain gardens, rain barrels/rainwater trenches and green roofs. These practices typically capture stormwater and infiltrate it back into the soil before it can enter the combined sewer system.





Green Infrastructure Accomplishments



\$ 83 MILLION SPENT ON GREEN

157 MILLION GAL CAPTURED BY GREEN

225 PROJECTS COMPLETED















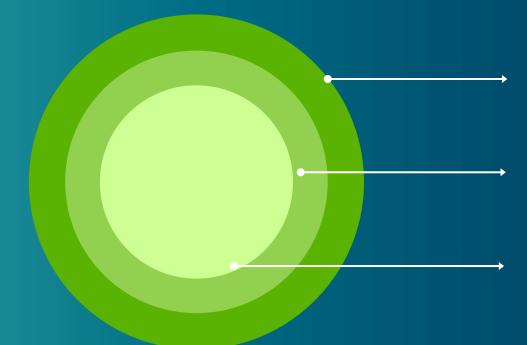




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Project Goals



Reduce combined sewer overflow entering Onondaga Creek

Improve water quality in Onondaga Lake

Improve quality of life and business in Downtown Syracuse







Project Timeline







Project Timeline



• Public





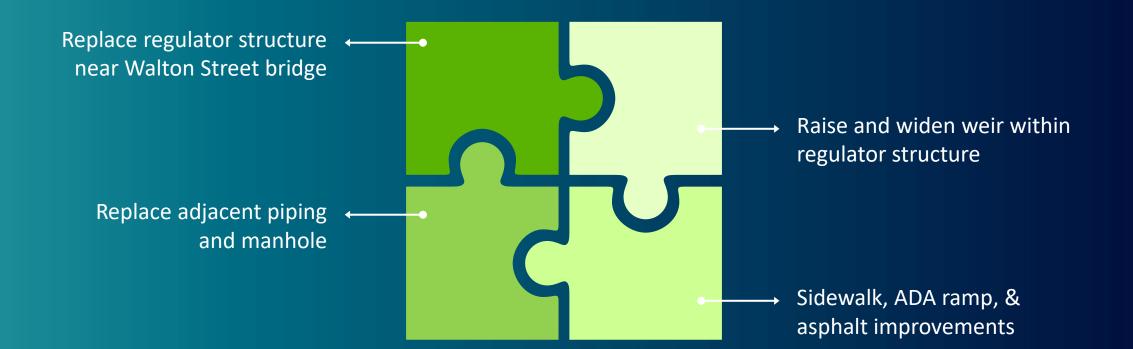
Project Scope Adjustment & Value Engineering







Major Project Elements







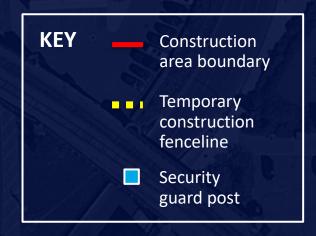


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Overall Site

Work on Walton Street in downtown Syracuse





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New Regulator Structure

- 10-ft diameter
- Completely underground
- New piping to and from new regulator structure
- Also replacing nearby manhole "MH-2"





Utilities

- National Grid duct bank
- National Grid gas line
- City of Syracuse water line

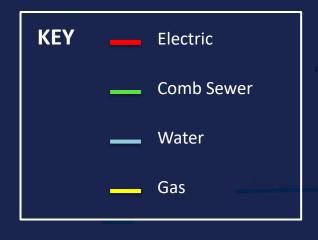


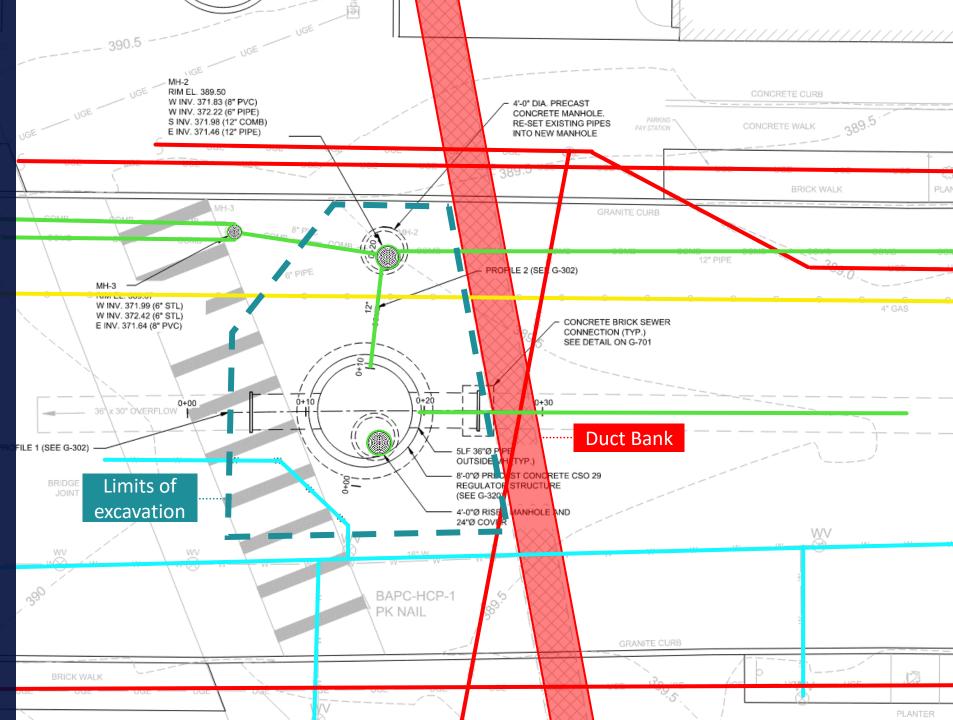




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- City of Syracuse
 water line





Construction Sequence



4 WEEKS

- Excavation Protection (Sheeting)
- Bypass Pumping Setup
- Water Line Blowoff Relocation





- Manhole Demolition
- Helical pile installation
- Manhole and piping install

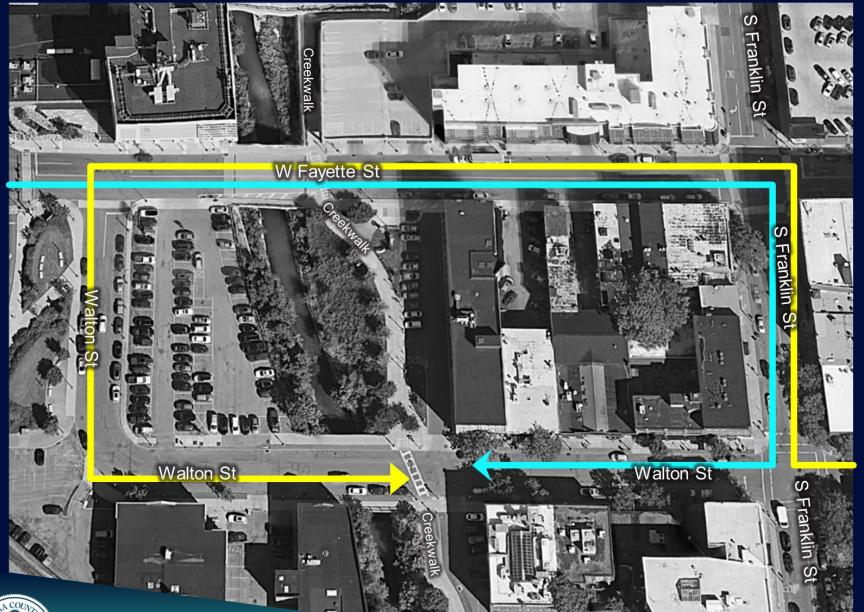


5 WEEKS

- Backfill and compaction
- Sidewalk, ADA Ramp, and asphalt restoration







Full Road Closures

- Anticipated 4 months of closure of the Walton St. Bridge Area
- Detour signs along W Fayette, S Franklin, Walton







Creekwalk Closure

 Pedestrian/Bike signs posted on Creekwalk to divert traffic to the west









Sidewalk Closures

 Pedestrian signs posted on sidewalks to divert traffic to the south of Walton St.





Parking Impacts (During full closure)





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County Executive

Open Discussion





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FOLLOW SAVE THE RAIN

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