

# Broadview Sewer and Drainage Improvement Project: Project Overview

## Project Goals:

- Reduce the frequency and quantity of sewer backups into homes, properties, streets and creeks in Broadview.
- Reduce the frequency and quantity of stormwater flooding to areas most impacted, especially building structures.

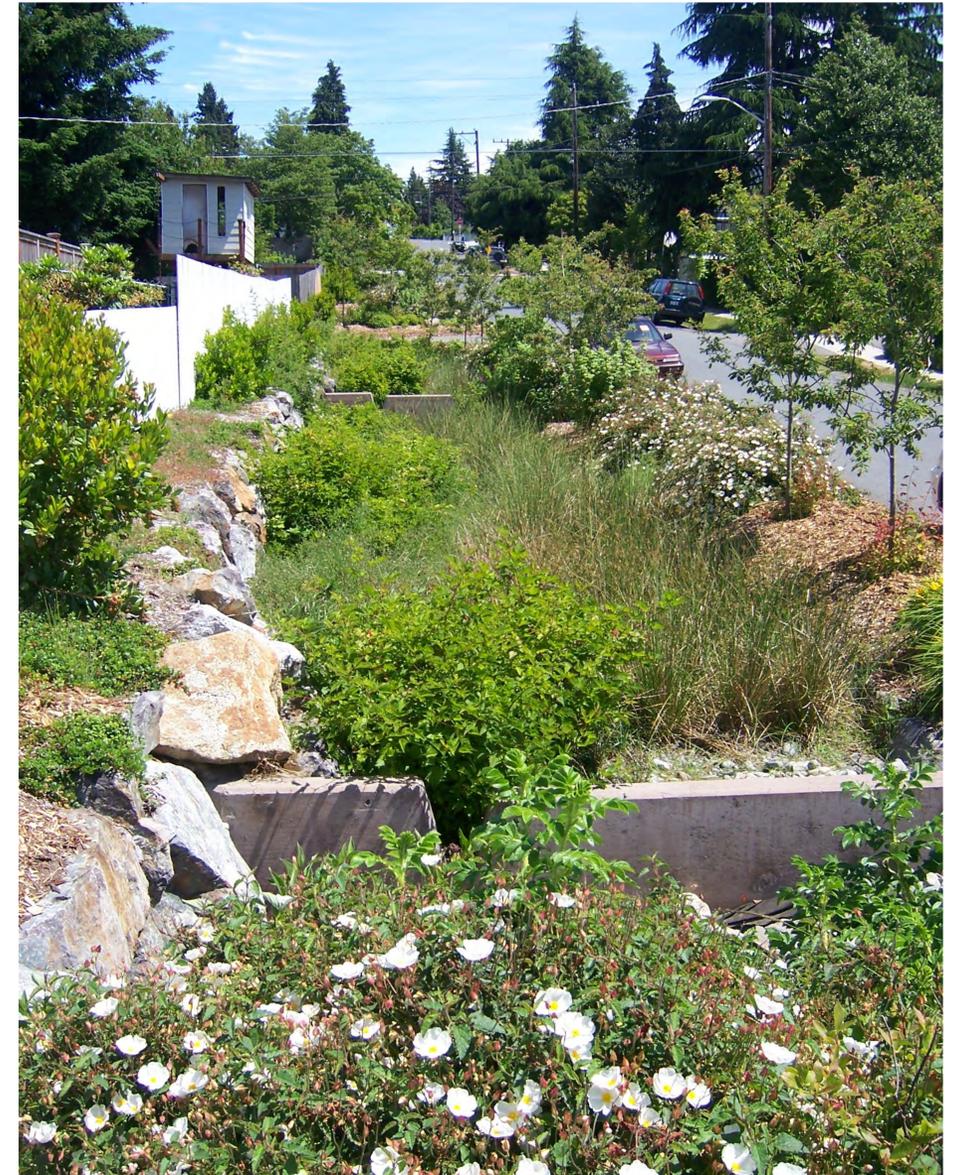
## 12th Ave NW Basin (western one-third of Broadview)\*

- SPU is currently evaluating leading sewer improvement alternatives.
- Soon, we will evaluate leading sewer improvement alternatives in conjunction with drainage improvement alternatives.
- There will be many opportunities for public input during this alternative analysis process.
- We are planning to make a decision on sewer and drainage improvements for the 12th Ave NW basin by late 2014.

*\*Note: Residents in the 12th Ave NW basin experience sewer backups approximately 2.5 times more frequently than residents in the rest of Broadview.*

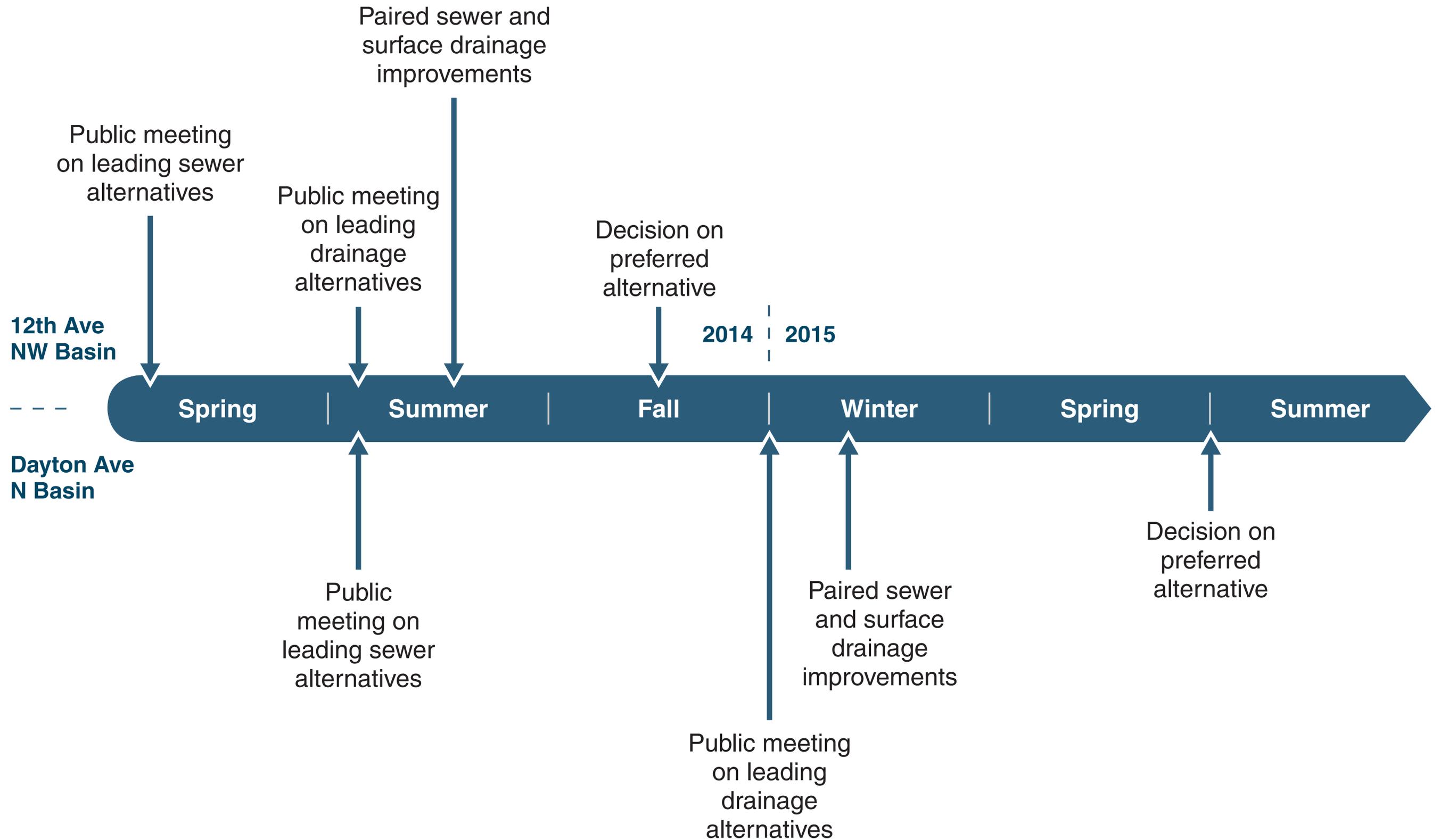
## Dayton Ave N Basin (eastern half and southern portion of Broadview)

- Starting this year, SPU will conduct a similar options analysis for sewer and drainage improvements.
- We expect to complete this work by mid-2015.



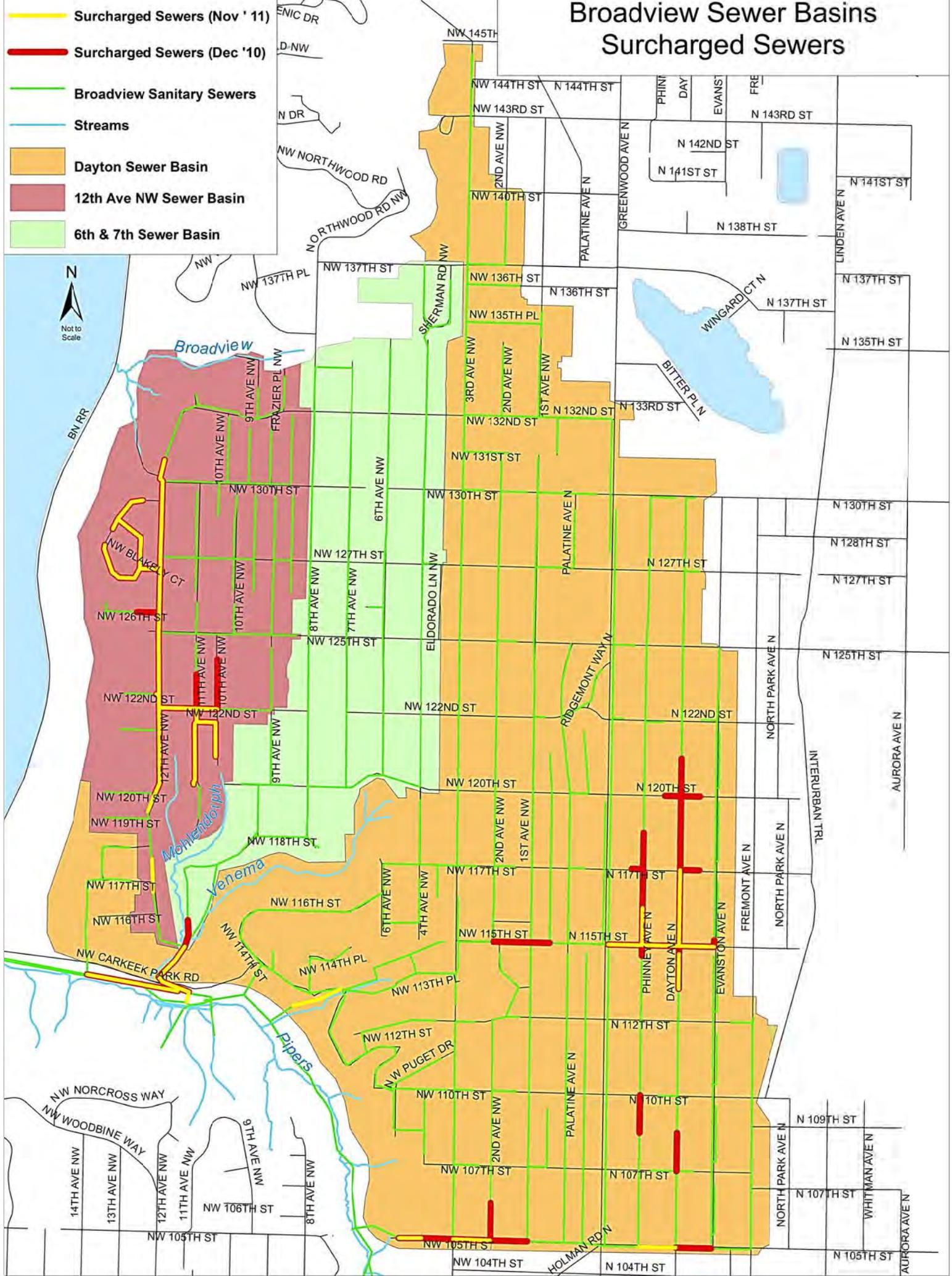
NW 107th Street stormwater cascade

# Project Timeline



# Broadview Sewer Basins Surcharged Sewers

- Surcharged Sewers (Nov '11)
- Surcharged Sewers (Dec '10)
- Broadview Sanitary Sewers
- Streams
- Dayton Sewer Basin
- 12th Ave NW Sewer Basin
- 6th & 7th Sewer Basin



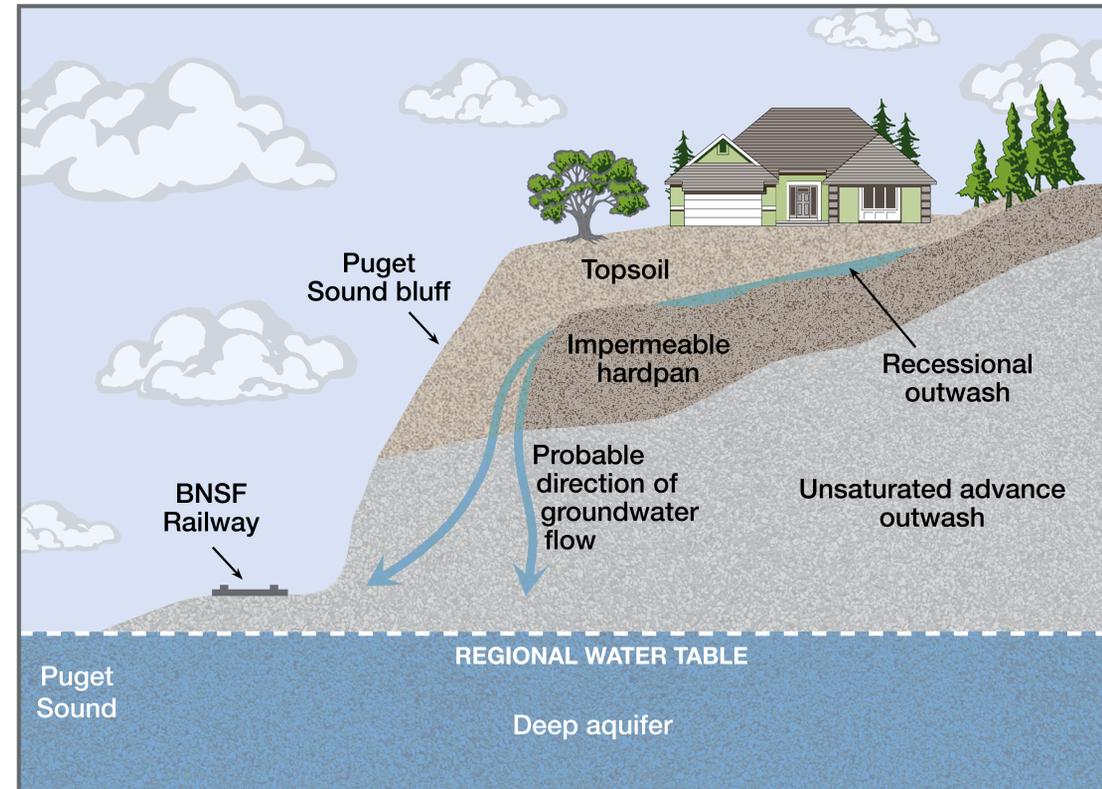


## Broadview Sewer and Drainage Improvement Project: Geotechnical Study Results for 12th Avenue Basin

### Background

- Basin located in the Broadview neighborhood in northwest Seattle
- Needs improvements to address chronic sewer backups and flooding
- Cracks and holes in sewer pipes allow groundwater to enter

- Some roof drain, sump pumps and foundation drains are connected to the sewer rather than the drainage system
- During heavy rains, stormwater and groundwater entering the sewer system can overwhelm it

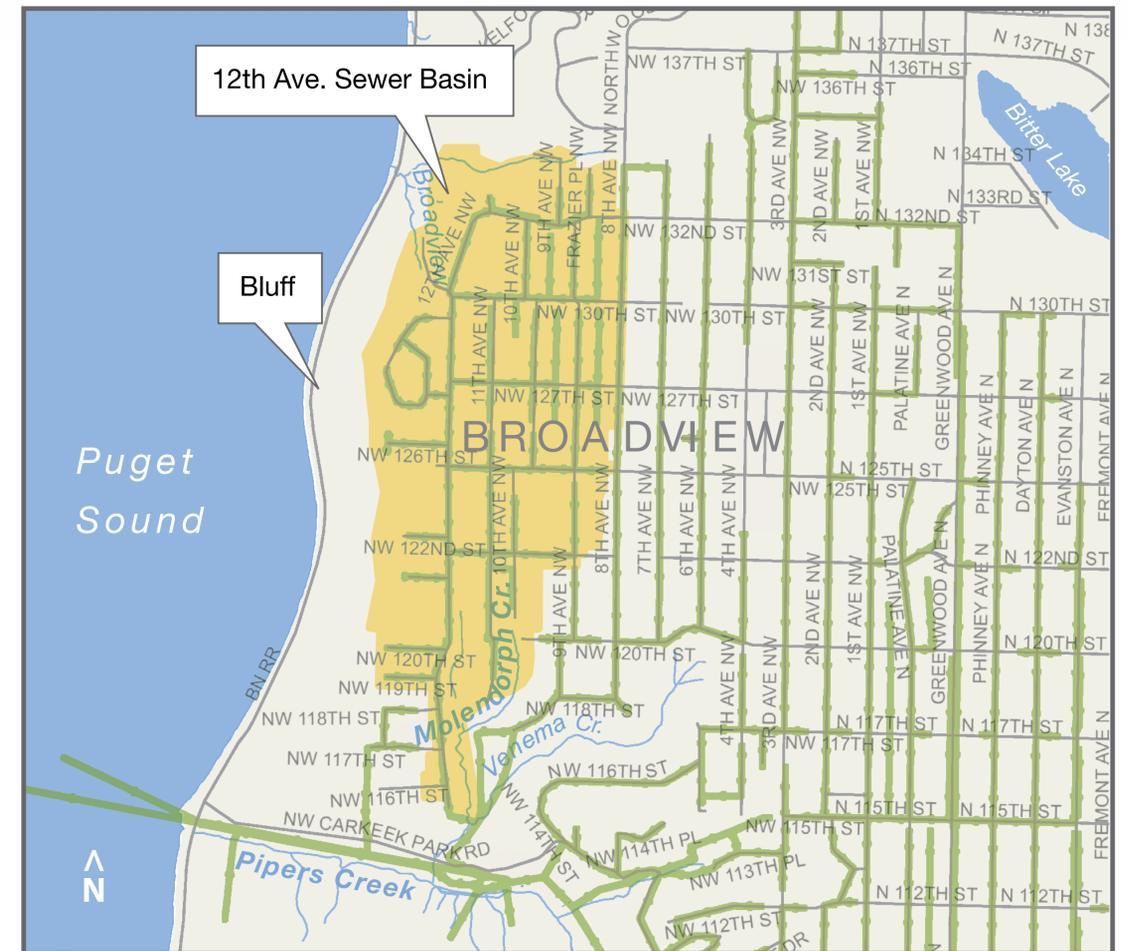


### Summary Results of 2013 Geotechnical Study

- 12th Ave basin geotechnical study in 2013 helped describe the groundwater table, water flows and soil conditions
- Results indicate that if SPU simply sealed the sewer pipe system in the 12th Ave basin, it could result in increased bluff instability
- SPU will consider this risk when developing sewer and drainage solutions

### Evaluation and Community Input for Long-Term Solutions

- Several alternative long-term solutions are being evaluated
- Community will have opportunities for input in 2014



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[www.seattle.gov/util/EnvironmentConservation/Projects/  
DrainageSystem/BroadviewProjects/index.htm](http://www.seattle.gov/util/EnvironmentConservation/Projects/DrainageSystem/BroadviewProjects/index.htm)