

Sanitary Sewer Overflow Consent Order Private Property Infiltration & Inflow Abatement

Whitney S. Katchmark

Principal Water Resources Engineer

March 17, 2011





Establishing an I/I Abatement Program is a requirement of the Consent Order.

“HRSD and the Localities shall develop and implement a Private Property I/I Abatement Program. The Private Property I/I Abatement Program will require, to the extent allowed by law, the correction of identified private system deficiencies.”

Recommendation: HRSD Managed Program

Alternative: Locality Managed Programs

WHY ARE WE UNDER A CONSENT ORDER?

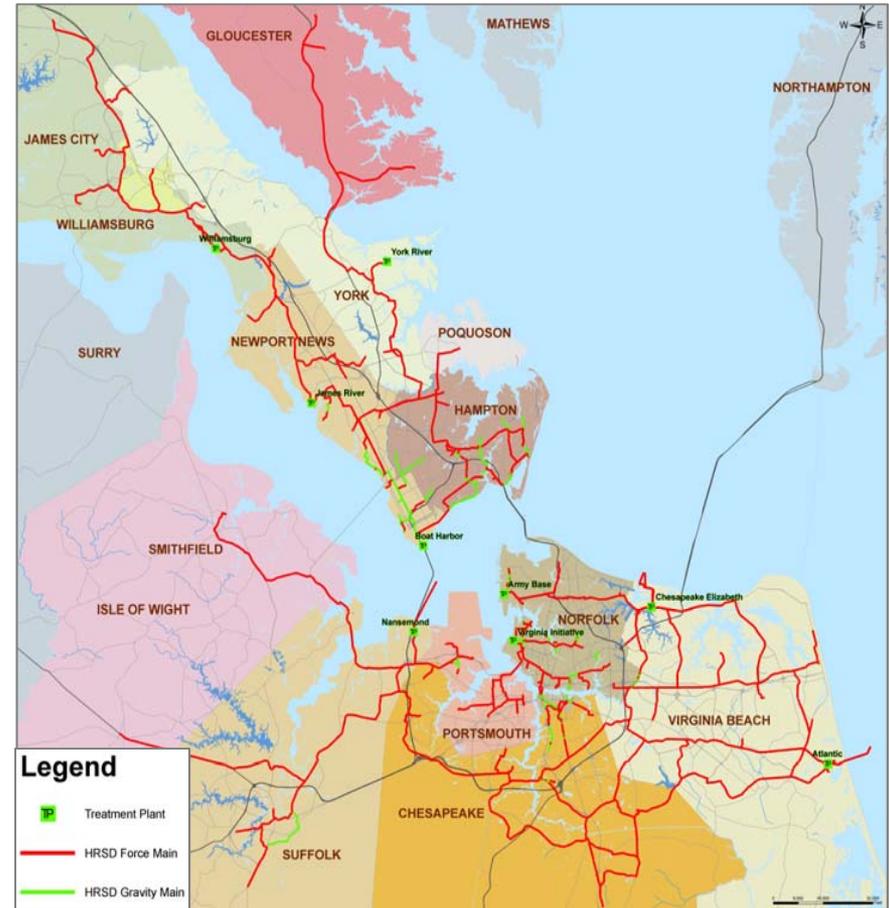
Sewer system overflows occur allowing untreated sewage to reach public waters. These overflows are non-permitted discharges.

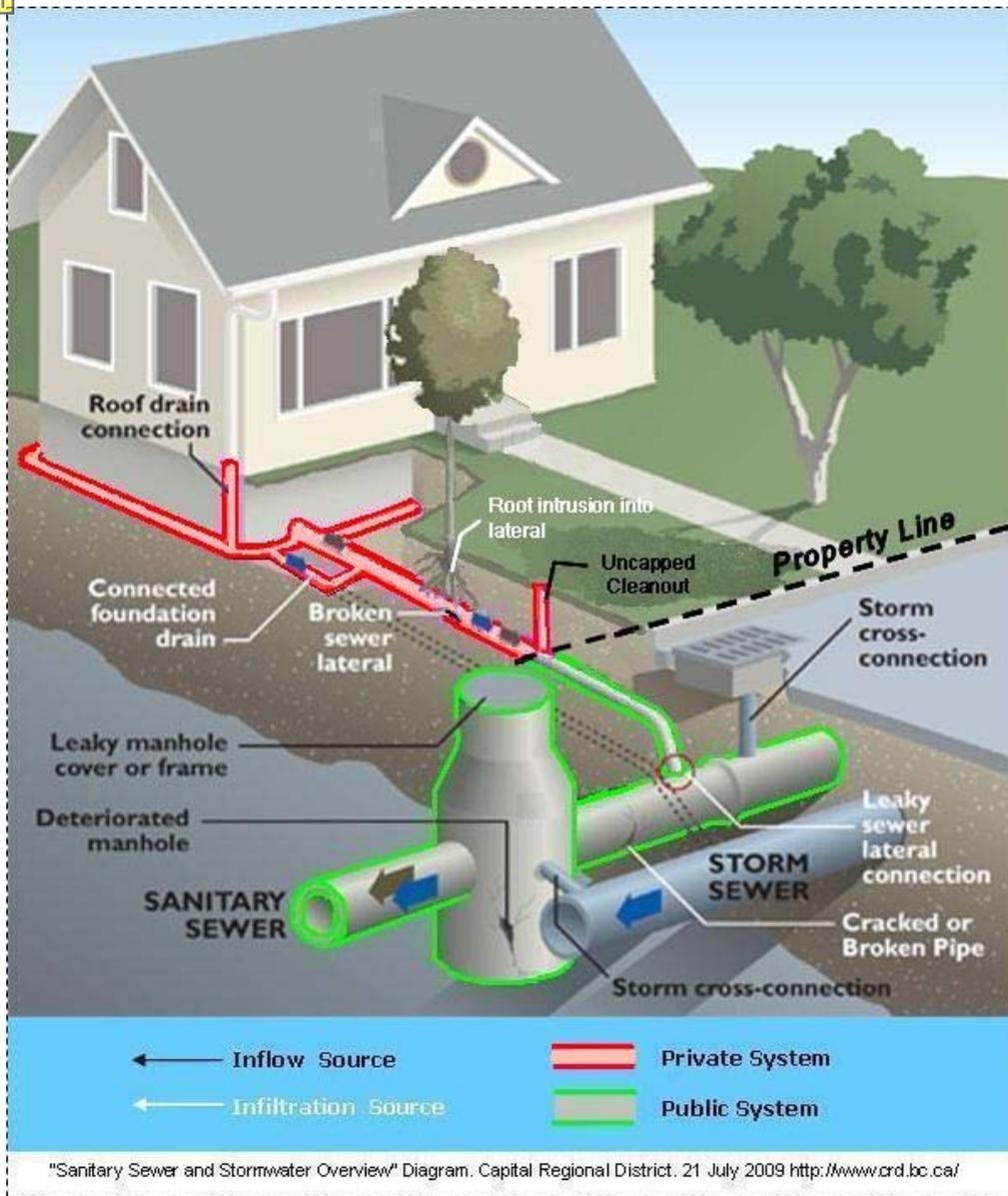
WHY DO SEWER OVERFLOWS OCCUR?

Pipe breaks, electrical outages, wet weather events, insufficient capacity

HOW WILL THE CONSENT ORDER REDUCE OVERFLOWS?

Repair pipes and pumps, expand system capacity, reduce excess volume with I/I abatement





PUBLIC PROPERTY I/I

Leaking lateral connections to main
Leaky manholes

Cross connections with storm sewers
Deteriorated sanitary sewer pipes

PRIVATE PROPERTY I/I

Leaking service laterals

Roof drain connections

Missing clean out caps

Sumps/foundation drains



Option 1 – Locality Managed Program

- Each locality would enact required model ordinance and create their own private property I/I abatement program consistent with regional standards.
- Costs recovered as locality determines.

Option 2 – HRSD Managed Program

- HRSD would develop program in partnership with localities under existing authority granted in enabling act to be implemented on a regional basis.
- HRSD will recover all costs for this program directly from ratepayers.



Directors of Utilities Committee recommends Option 2: HRSD Managed Program

- Regionally consistent approach
- Economy of scale: fewer contracts, less overhead
- Does not compete for resources with other critical local government programs
- Spreads cost across all communities & ratepayers



Funding for HRSD Managed Program

- *Preliminary estimates range from \$13-\$16 million per year for a 15 year program.*
- *HRSD will recover all costs for this program directly from ratepayers.*



Directors of Utilities Committee
recommendation:

***Endorse Option2: development of HRSD
managed private property I/I abatement
program.***