

# DEL RAY EAST SANITARY LATERAL REHABILITATION PROJECT



As part of the City's Sanitary Sewer Asset Renewal Program, this project will rehabilitate 373 City-owned sanitary laterals in the Four Mile Run and Commonwealth Sanitary Sewersheds, east of Commonwealth Avenue to west of Route 1 in Del Ray, Rosemont, and Lynhaven neighborhoods. .

For more information, visit [www.alexandriava.gov/go/5064](http://www.alexandriava.gov/go/5064) or scan the QR code below.



## STRUCTURE DEFECT IN A SANITARY LATERAL - Typical Example

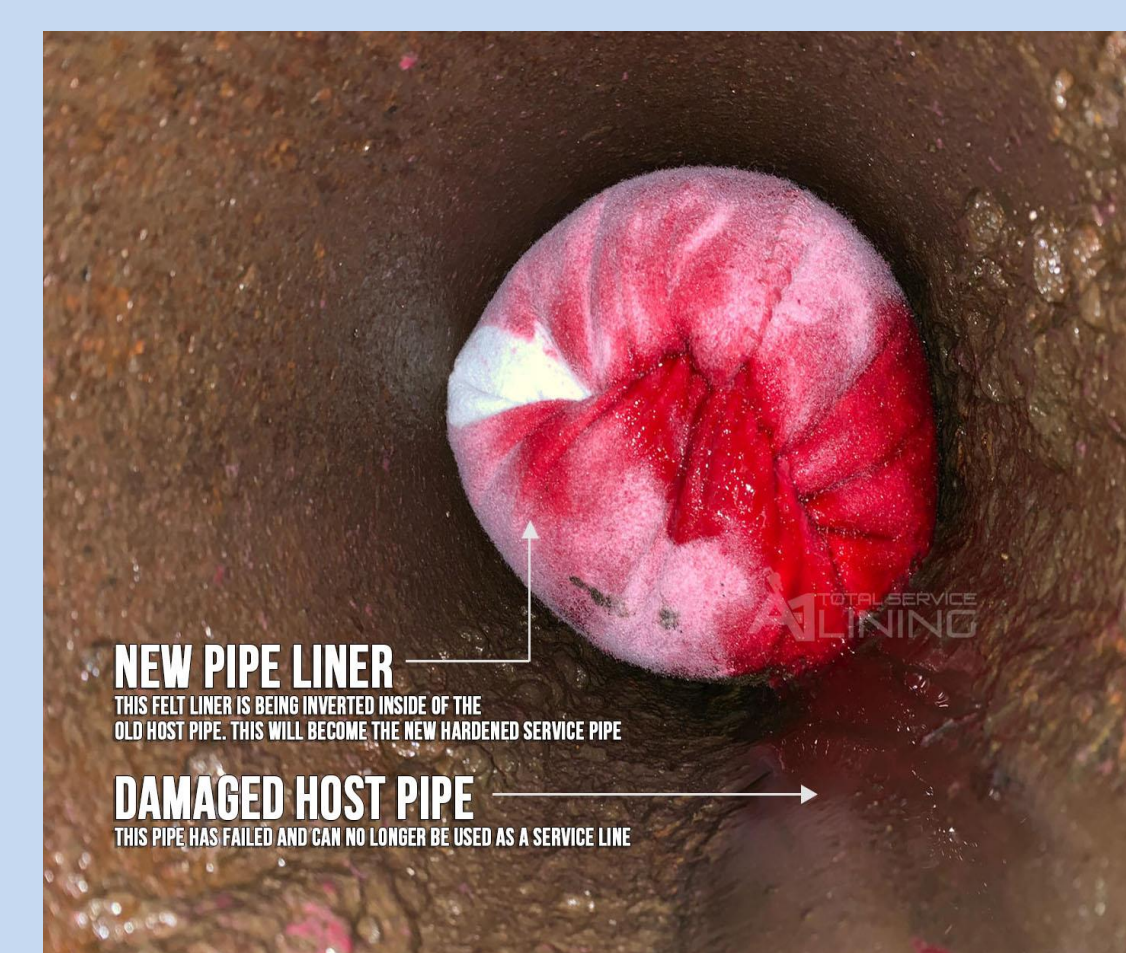


### SCOPE OF THE PROJECT

The sanitary laterals and their connection with the sewer main will be rehabilitated using the Cured-In-Place Pipe (CIPP) lining process. As part of this project, the City plans to install Top-Hat liners at 62 lateral-mainline connections and install T-Liners in 311 laterals from the lateral-mainline connection to the curb line.

CIPP provides a trenchless, cost-effective, and durable solution for sanitary sewer rehabilitation, minimizing excavation and surface disruption while reducing infiltration and extending pipe service life.

### CURED-IN-PLACE PIPE (CIPP) TECHNOLOGY



Invert/insert liner into host pipe



Cure liner to bond to host pipe



Top Hat (installed at lateral-main connection to provide leak proof

## CONSTRUCTION IMPACTS

### What to Expect During Construction

- Parking: No-parking signs posted 72 hours in advance
- Water Service: Temporary suspension, typically 6 hours
- Sewer Work: Sewers will be cleaned for lining
- Odors: Add water to dry drains to prevent odors
- Notifications: Residents will receive advance notice about construction and impacts.
- Periodic lane closure near project area during construction hours

## CONSTRUCTION SCHEDULE

### Construction Timeline

- Construction contract start date: Fall, 2026
- Construction duration: Completion within 365 calendar days

### Construction Hours

- 7am to 6pm Monday – Friday
- 9am to 6pm on Saturday

## CONSTRUCTION CONTRACTOR

Pleasants Companies, LLC  
Contact: Eddie Lezcano | Project Manager  
[elezcano@pleasantsconstruction.com](mailto:elezcano@pleasantsconstruction.com) or 240.726.4507

## CITY CONTACT

For construction questions, contact Ayoub Hassen  
[ayoub.hassen@alexandriava.gov](mailto:ayoub.hassen@alexandriava.gov) or 703.746.4635.

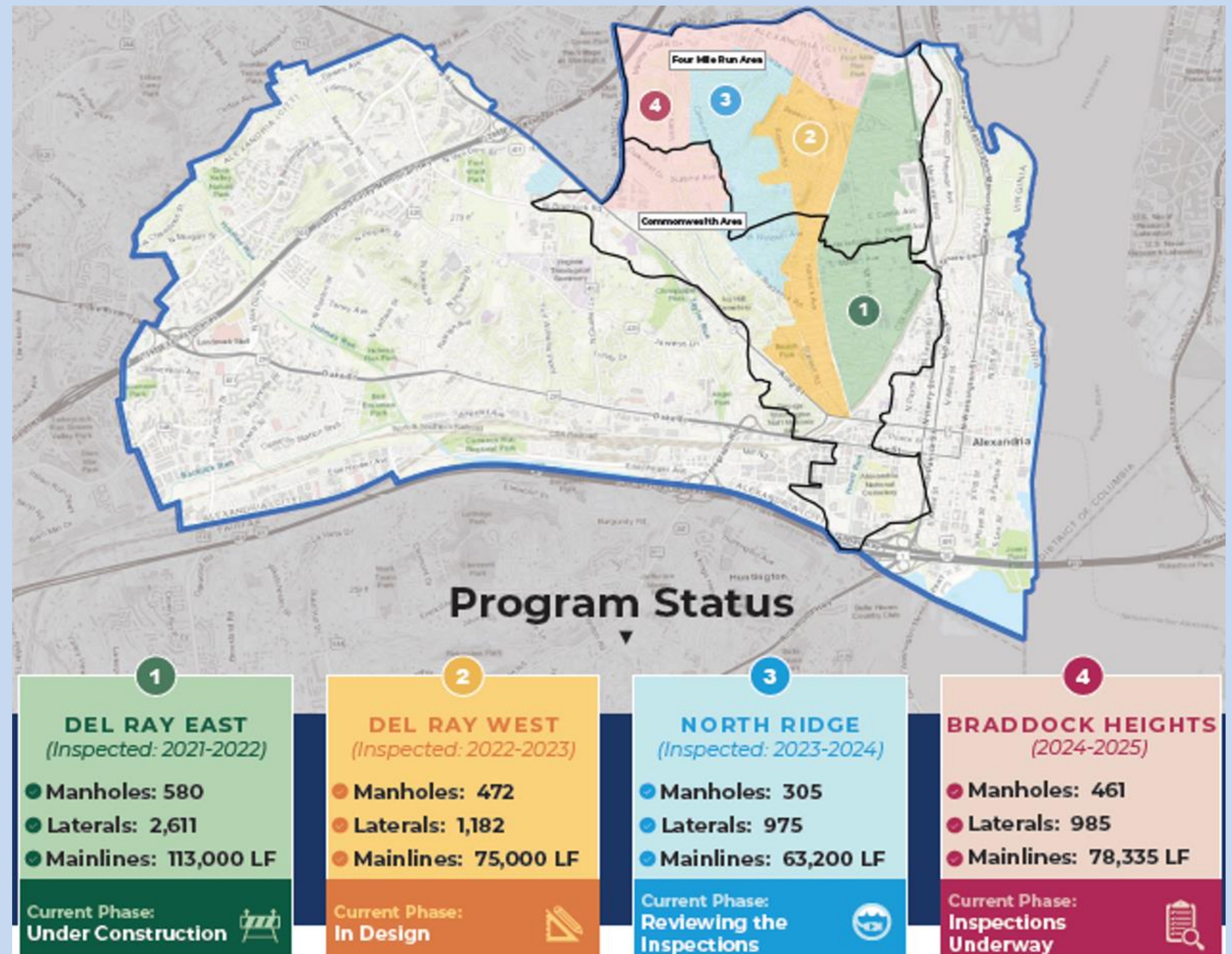
For Asset Renewal Program questions, contact Lu Zhang  
[lu.zhang@alexandriava.gov](mailto:lu.zhang@alexandriava.gov) or 703.746.4289.

# Sanitary Sewer Asset Renewal Program

City owns and operates 240 miles of sanitary and combined sewer

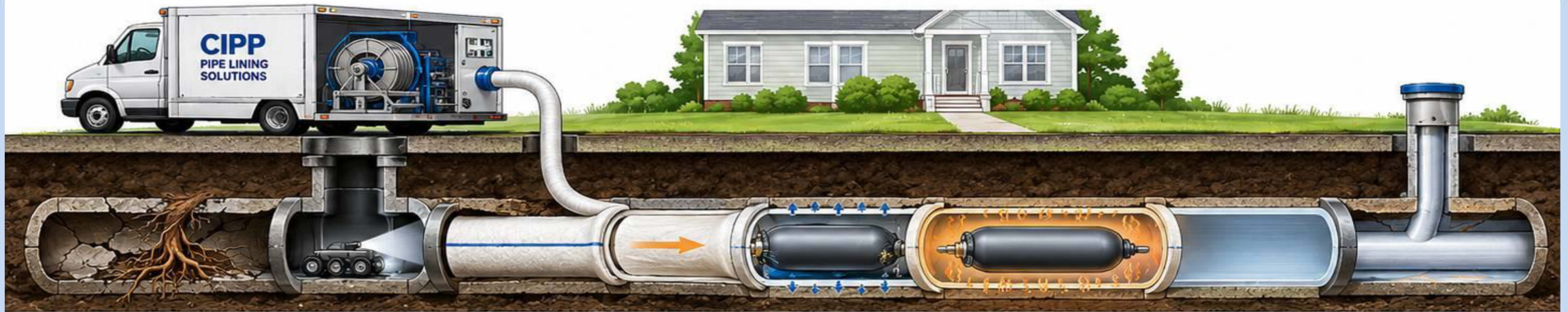
Sanitary Sewer Asset Renewal Program was initiated in 2021 to inspect/rehabilitate deteriorated sanitary infrastructures

Sewer inspection/rehabilitation in Del Ray, North Ridge, and Braddock Heights is at various stages.



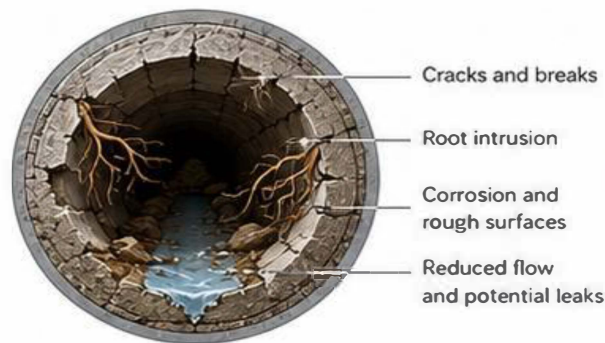
# Cured-in-Place Pipe Lining (CIPP)

A trenchless solution that repairs damaged pipes from the inside—restoring strength, stopping leaks, and extending service life.

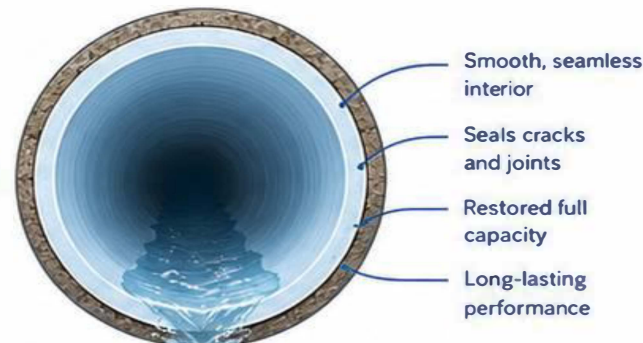


- 1 Existing damaged pipe with cracks and root intrusion**  
Deterioration, cracks and roots reduce capacity and can cause leaks.
- 2 Sewer camera inspection**  
A high-resolution camera assesses the condition and identifies problem areas.
- 3 Resin-saturated liner**  
A flexible felt liner is saturated with specialized resin.
- 4 Insertion / inversion into the old pipe**  
The liner is inverted (or pulled) into place through an access point.
- 5 Inflatable bladder or calibration tube expanding the liner against the host pipe**  
An inflatable bladder is inserted and inflated to press the liner tightly against the pipe wall.
- 6 Heat or steam / hot water curing process**  
Heat, steam, or hot water cures the resin, creating a strong, durable pipe-within-a-pipe.
- 7 Finished seamless cured liner inside the old pipe**  
Once cured, the bladder is removed, leaving a smooth, seamless liner fully bonded to the host pipe.
- 8 Reopened service connection**  
Access points are restored and the lateral/service connection is reopened.

## BEFORE Damaged Pipe



## AFTER Relined Pipe



## CIPP BENEFITS

-  **Trenchless**
-  **Minimal digging**
-  **Seals cracks**
-  **Restores flow**
-  **Extends pipe life**



CIPP is ideal for sanitary sewer, storm sewer, and many pressure pipe applications.



## Useful Online Resources

For more information about City's asset renewable program, visit [www.alexandriava.gov/sewers](http://www.alexandriava.gov/sewers) or scan the QR code below



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