

# Winston-Salem/Forsyth County Utilities

August 12, 2024 Update



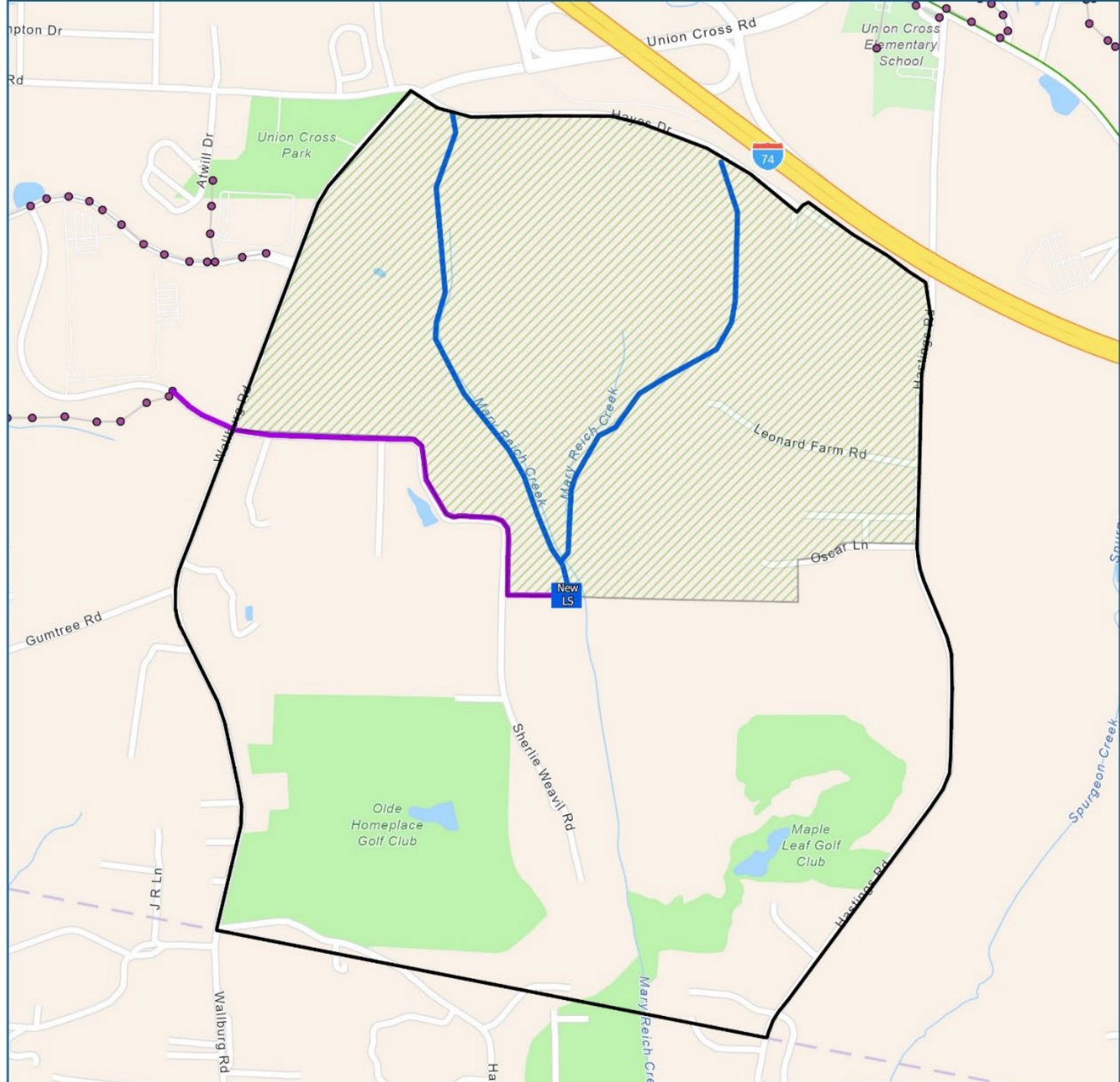
# Agenda



- 1 SE Forsyth County Sewer Expansion
- 2 Regulatory Update
- 3 Landfill Capacity Projections

# SE Forsyth County Sewer Expansion

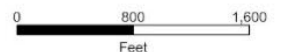
- Forsyth County received \$20M from the State budget to expand water and/or wastewater service in Southeastern Forsyth County.
- A site on Wallburg Road has been identified as the best location to use the available funding to build a new sanitary sewer lift station.
- A Request for Qualifications is currently advertised for Owner Advisor Services. Design-build project delivery will be used.



# Southeastern Forsyth County Sewer Service Area Proposed Alignment (Northern Region)

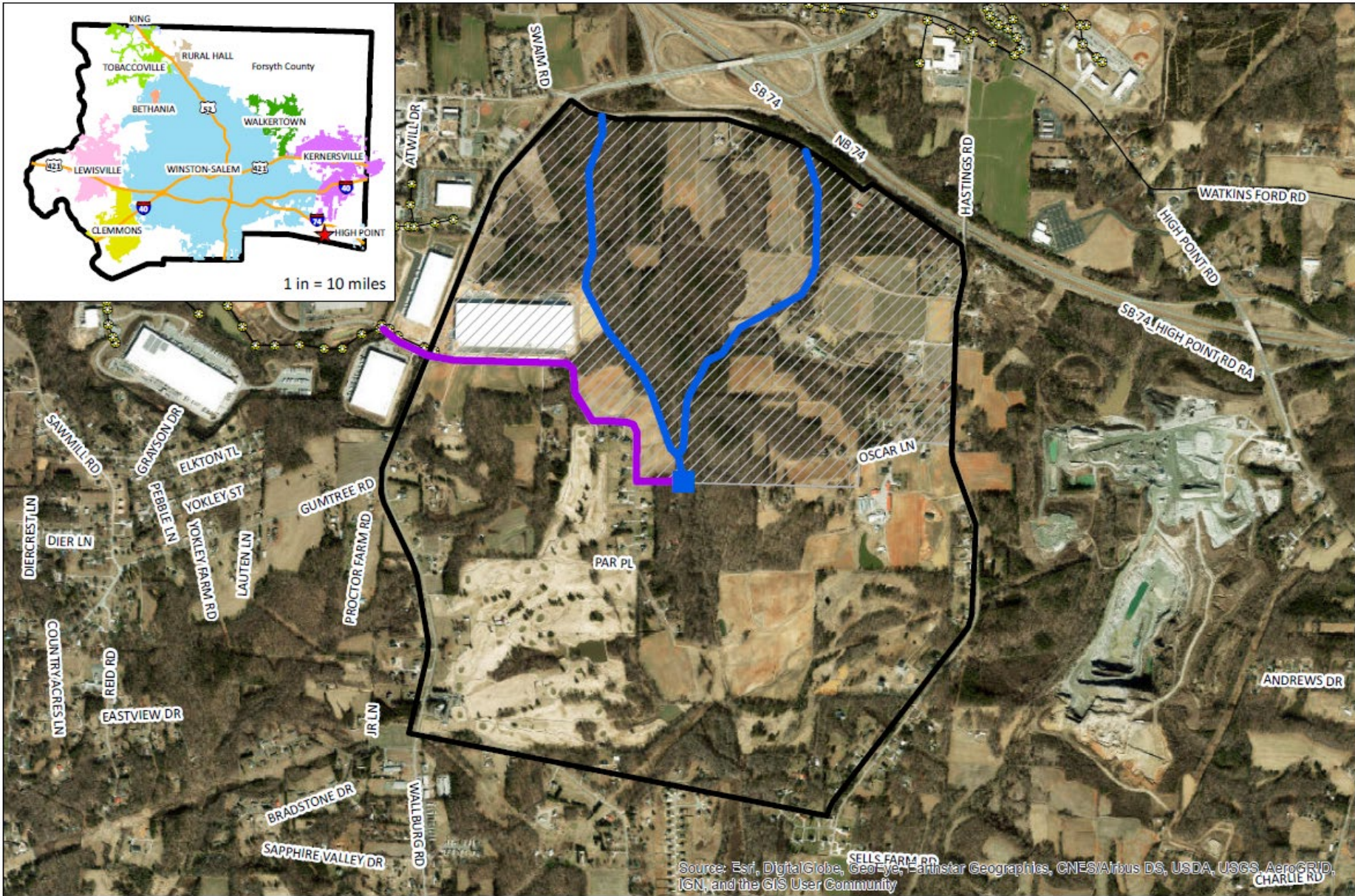
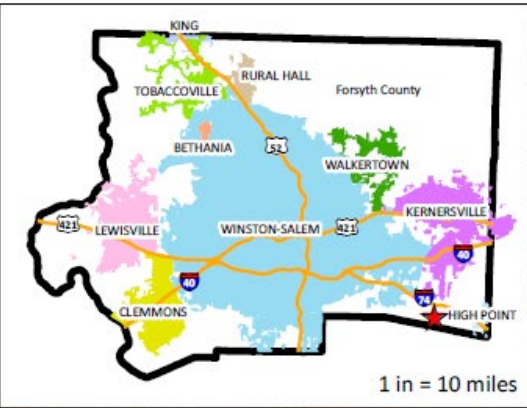
## LEGEND

-  Study Area
-  Northern Region
-  Proposed Gravity Sewer
-  Proposed Force Main
-  Sewer Manhole
-  Existing Collection Sewer
-  Existing Interceptor Sewer



1:14,000





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



**Southeastern Forsyth County  
Sewer Service Area  
Proposed Alignment  
(Northern Region)**

- Study Area
- Northern Region
- Proposed Force Main
- Proposed Gravity Sewer
- New Lift Station
- Existing Sewer Mains
- Sewer Manholes



1 inch = 1,500 feet

Document Path: G:\08 Information Systems\Team\Zach\PIC\DC\July2024\New LS.mxd

# Regulatory Update - Water

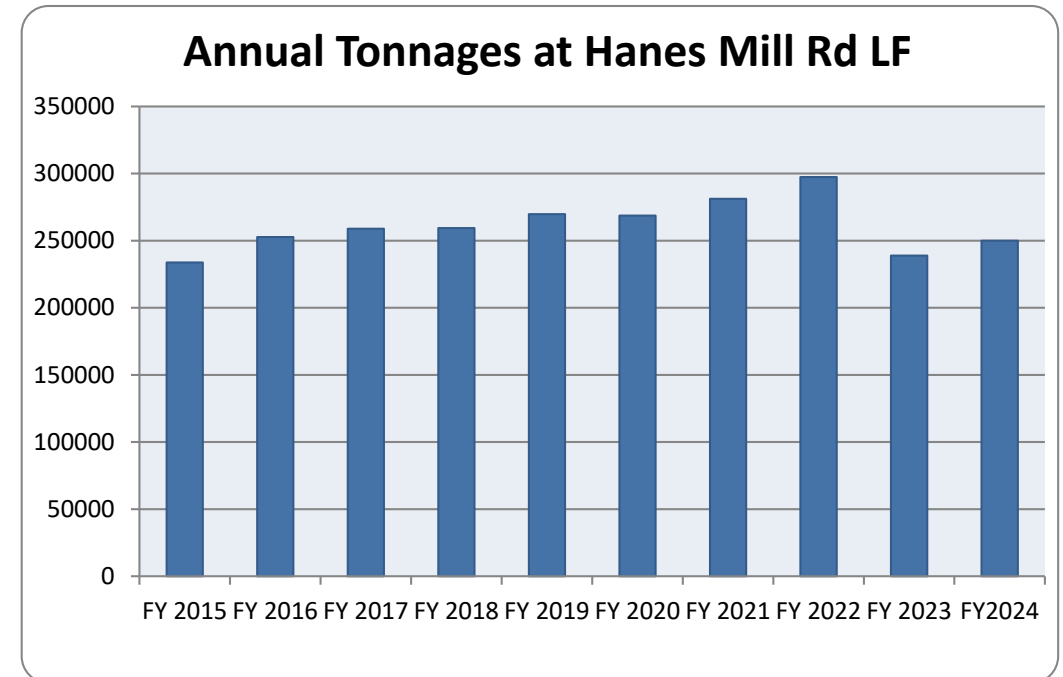
- On April 10, 2024, EPA announced Maximum Contaminant Levels (MCLs) for six PFAS compounds
  - PFOA – 4.0 parts per trillion
  - PFOS – 4.0 parts per trillion
  - Health Hazard Index for HFPO-DA (Gen X), PFHxS, PFNA and PFBS
- Lead & Copper Rule Revisions & Improvements
  - Revises the regulatory timeline for service line replacement and new sampling requirements
  - Lead service line inventory is due by October 2024
- Microplastics
  - No current proposed regulations, only industry discussion

# Regulatory Update - Wastewater

- Nutrient Management Plan for Yadkin River Basin
  - Phosphorus in first NPDES permit cycle and nitrogen in second following rule promulgation
  - Proposed regulations anticipated in early 2025 with final regulations in 2026
  - Timeline currently coinciding with needed capacity upgrades
- Capacity Upgrades for WWTPs
  - Based on recently completed collection system master plan, capacity upgrades will be required by 2035
- PFAS
  - Currently awaiting next steps from EPA and NC DEQ

# Landfill Tonnage History & Projections

- Remaining life projected based on:
  - 3 year average tonnage, escalated by 0.9% (population growth rate)
  - In-place density of waste (measured annually)
  - Assumes C&D waste goes to Hanes after OSR LF closure in ~2030
- Increased tonnage in FY 2024
  - 250,031 tons vs. 238,866 in FY23
  - 3-year average decreased
- Hanes Landfill projected life extended
  - Projected to be at capacity in **2043**





# Hanes Landfill Construction Schedule



- MSE berm currently under contract
  - Construction time 12-18 months
  - Increases overall capacity by ~23%
  - Estimated to add ~7 years
- Remaining permitted horizontal expansion
  - Cells 6 & 7 (1-5 already constructed)
  - Partial construction of Cell 6 in FY26
  - Remaining cells and final portion of berm to be constructed by 2030



# Winston-Salem/Forsyth County Utilities

Thank you

